

new/exception_lists/copyright

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*****
18530 Fri Nov 22 15:19:10 2013
new/exception_lists/copyright
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
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24 #

26 syntax: glob
27 exception_lists/closed-bins
28 exception_lists/copyright
29 exception_lists/cstyle
30 exception_lists/hdrchk
31 usr/src/cmd/dtrace/test/tst/common/*/*.out
32 usr/src/cmd/krb5/kadmin/cli/kadmin_ct.c
33 usr/src/cmd/krb5/kadmin/cli/kadmin.h
34 usr/src/cmd/krb5/kadmin/cli/ss_wrapper.c
35 usr/src/cmd/krb5/kadmin/dbutil/nstrtok.h
36 usr/src/cmd/krb5/kadmin/dbutil/ovload.c
37 usr/src/cmd/krb5/kadmin/dbutil/string_table.c
38 usr/src/cmd/krb5/kadmin/dbutil/strtok.c
39 usr/src/cmd/krb5/kadmin/dbutil/util.c
40 usr/src/cmd/krb5/kadmin/kpasswd/kpasswd_strings.h
41 usr/src/cmd/krb5/kadmin/kpasswd/kpasswd.h
42 usr/src/cmd/krb5/kadmin/ktutil/ktutil.h
43 usr/src/cmd/krb5/kadmin/server/server_glue_v1.c
44 usr/src/cmd/krb5/krb5kdc/extern.c
45 usr/src/cmd/krb5/krb5kdc/kdc_util.c
46 usr/src/cmd/krb5/krb5kdc/policy.c
47 usr/src/cmd/krb5/krb5kdc/replay.c
48 usr/src/cmd/krb5/krb5kdc/sock2p.c
49 usr/src/cmd/krb5/ldap_util/kdb5_ldap_list.c
50 usr/src/cmd/krb5/ldap_util/kdb5_ldap_list.h
51 usr/src/cmd/krb5/ldap_util/kdb5_ldap_policy.h
52 usr/src/cmd/krb5/ldap_util/kdb5_ldap_realm.h
53 usr/src/cmd/krb5/ldap_util/kdb5_ldap_services.h
54 usr/src/cmd/smb/srv/smbd/eventlog.dll

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new/exception_lists/copyright

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55 usr/src/cmd/terminfo/termcap.src
56 usr/src/cmd/terminfo/terminfo.src
57 usr/src/common/bzip2/LICENSE
58 usr/src/common/bzip2/Solaris.README.txt
59 usr/src/common/bzip2/bzlib.h
60 usr/src/common/bzip2/crctable.c
61 usr/src/common/bzip2/randtable.c
62 usr/src/common/bzip2/blocksort.c
63 usr/src/common/bzip2/compress.c
64 usr/src/common/bzip2/bzlib.c
65 usr/src/common/bzip2/decompress.c
66 usr/src/common/bzip2/bzlib_private.h
67 usr/src/common/bzip2/huffman.c
68 usr/src/common/openssl/crypto/krb5/krb5_asn.c
69 usr/src/common/openssl/crypto/krb5/krb5_asn.h
70 usr/src/grub/grub-0.97/stage2/Makefile.am
71 usr/src/lib/gss_mechs/mech_krb5/crypto/cksumtype_to_string.c
72 usr/src/lib/gss_mechs/mech_krb5/crypto/coll_proof_cksum.c
73 usr/src/lib/gss_mechs/mech_krb5/crypto/encrypt_compare.c
74 usr/src/lib/gss_mechs/mech_krb5/crypto/keyed_checksum_types.c
75 usr/src/lib/gss_mechs/mech_krb5/crypto/keyed_cksum.c
76 usr/src/lib/gss_mechs/mech_krb5/crypto/keylengths.c
77 usr/src/lib/gss_mechs/mech_krb5/crypto/old/des_stringtokey.c
78 usr/src/lib/gss_mechs/mech_krb5/crypto/random_to_key.c
79 usr/src/lib/gss_mechs/mech_krb5/crypto/string_to_cksumtype.c
80 usr/src/lib/gss_mechs/mech_krb5/crypto/string_to_encrypt.c
81 usr/src/lib/gss_mechs/mech_krb5/crypto/valid_cksumtype.c
82 usr/src/lib/gss_mechs/mech_krb5/et/error_table.h
83 usr/src/lib/gss_mechs/mech_krb5/et/internal.h
84 usr/src/lib/gss_mechs/mech_krb5/et/mit-sipb-copyright.h
85 usr/src/lib/gss_mechs/mech_krb5/include/cache-addrrinfo.h
86 usr/src/lib/gss_mechs/mech_krb5/include/cm.h
87 usr/src/lib/gss_mechs/mech_krb5/include/k5-config.h
88 usr/src/lib/gss_mechs/mech_krb5/include/db.h
89 usr/src/lib/gss_mechs/mech_krb5/include/fake-addrrinfo.h
90 usr/src/lib/gss_mechs/mech_krb5/include/foreachaddr.h
91 usr/src/lib/gss_mechs/mech_krb5/include/k5-int-pkinit.h
92 usr/src/lib/gss_mechs/mech_krb5/include/k5-utf8.h
93 usr/src/lib/gss_mechs/mech_krb5/include/kdb_kt.h
94 usr/src/lib/gss_mechs/mech_krb5/include/krb5_libinit.h
95 usr/src/lib/gss_mechs/mech_krb5/include/krb5/adm_defs.h
96 usr/src/lib/gss_mechs/mech_krb5/include/krb5/adm_proto.h
97 usr/src/lib/gss_mechs/mech_krb5/include/krb5/adm.h
98 usr/src/lib/gss_mechs/mech_krb5/include/krb5/copyright.h
99 usr/src/lib/gss_mechs/mech_krb5/include/krb5/k5-err.h
100 usr/src/lib/gss_mechs/mech_krb5/include/krb5/k5-plugin.h
101 usr/src/lib/gss_mechs/mech_krb5/include/locate_plugin.h
102 usr/src/lib/gss_mechs/mech_krb5/include/port-sockets.h
103 usr/src/lib/gss_mechs/mech_krb5/include/preauth_plugin.h
104 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_decode.c
105 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_decode.h
106 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_encode.c
107 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_encode.h
108 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_get.c
109 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_get.h
110 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_k_decode.h
111 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_k_encode.h
112 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_make.c
113 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_make.h
114 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_misc.c
115 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1_misc.h
116 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/asn1buf.h
117 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/krb5_decode.c
118 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/krb5_encode.c
119 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/krbasn1.h
120 usr/src/lib/gss_mechs/mech_krb5/krb5/asn.1/ldap_key_seq.c

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121 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/cc-int.h
122 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/cccopy.c
123 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/ccdefault.c
124 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/ccdefops.c
125 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/ccfns.c
126 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/fcc.h
127 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/scc.h
128 usr/src/lib/gss_mechs/mech_krb5/krb5/ccache/ser_cc.c
129 usr/src/lib/gss_mechs/mech_krb5/krb5/error_tables/adm_err.h
130 usr/src/lib/gss_mechs/mech_krb5/krb5/keytab/kt-int.h
131 usr/src/lib/gss_mechs/mech_krb5/krb5/keytab/ktadd.c
132 usr/src/lib/gss_mechs/mech_krb5/krb5/keytab/ktdefault.c
133 usr/src/lib/gss_mechs/mech_krb5/krb5/keytab/ktfns.c
134 usr/src/lib/gss_mechs/mech_krb5/krb5/keytab/ktremove.c
135 usr/src/lib/gss_mechs/mech_krb5/krb5/keytab/read_servi.c
136 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/addr_comp.c
137 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/addr_order.c
138 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/addr_srch.c
139 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/appdefault.c
140 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/bld_pr_ext.c
141 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/bld Princ.c
142 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/chk_trans.c
143 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/cleanup.h
144 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/copy_addrs.c
145 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/copy_creds.c
146 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/copy_data.c
147 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/copy_tick.c
148 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/decode_kdc.c
149 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/decrypt_tk.c
150 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/deltat.c
151 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/enc_helper.c
152 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/encode_kdc.c
153 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/encrypt_tk.c
154 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/free_rtree.c
155 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/gc_via_tkt.c
156 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/gen_subkey.c
157 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/gic_opt.c
158 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/init_keyblock.c
159 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/int_proto.h
160 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/kdc_rep_dc.c
161 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/kerrs.c
162 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/mk_error.c
163 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/mk_rep.c
164 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/pr_to_salt.c
165 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/preauth.c
166 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/rd_error.c
167 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/rd_rep.c
168 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/rd_req.c
169 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/rd_safe.c
170 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/tgtname.c
171 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/valid_times.c
172 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/vic_opt.c
173 usr/src/lib/gss_mechs/mech_krb5/krb5/krb/walk_rtree.c
174 usr/src/lib/gss_mechs/mech_krb5/krb5/os/accessor.c
175 usr/src/lib/gss_mechs/mech_krb5/krb5/os/changepw.c
176 usr/src/lib/gss_mechs/mech_krb5/krb5/os/dnssrv.c
177 usr/src/lib/gss_mechs/mech_krb5/krb5/os/free_hstrl.c
178 usr/src/lib/gss_mechs/mech_krb5/krb5/os/free_krbhs.c
179 usr/src/lib/gss_mechs/mech_krb5/krb5/os/full_ipadr.c
180 usr/src/lib/gss_mechs/mech_krb5/krb5/os/gen_port.c
181 usr/src/lib/gss_mechs/mech_krb5/krb5/os/gen_rname.c
182 usr/src/lib/gss_mechs/mech_krb5/krb5/os/genaddrs.c
183 usr/src/lib/gss_mechs/mech_krb5/krb5/os/get_krbhst.c
184 usr/src/lib/gss_mechs/mech_krb5/krb5/os/gmt_mktime.c
185 usr/src/lib/gss_mechs/mech_krb5/krb5/os/hostaddr.c
186 usr/src/lib/gss_mechs/mech_krb5/krb5/os/localaddr.c

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187 usr/src/lib/gss_mechs/mech_krb5/krb5/os/lock_file.c
188 usr/src/lib/gss_mechs/mech_krb5/krb5/os/mk_faddr.c
189 usr/src/lib/gss_mechs/mech_krb5/krb5/os/net_read.c
190 usr/src/lib/gss_mechs/mech_krb5/krb5/os/net_write.c
191 usr/src/lib/gss_mechs/mech_krb5/krb5/os/os-prot.h
192 usr/src/lib/gss_mechs/mech_krb5/krb5/os/osconfig.c
193 usr/src/lib/gss_mechs/mech_krb5/krb5/os/port2ip.c
194 usr/src/lib/gss_mechs/mech_krb5/krb5/os/prompter.c
195 usr/src/lib/gss_mechs/mech_krb5/krb5/os/promptsr.c
196 usr/src/lib/gss_mechs/mech_krb5/krb5/os/read_msg.c
197 usr/src/lib/gss_mechs/mech_krb5/krb5/os/read_pwd.c
198 usr/src/lib/gss_mechs/mech_krb5/krb5/os/realm_dom.c
199 usr/src/lib/gss_mechs/mech_krb5/krb5/os/realm_iter.c
200 usr/src/lib/gss_mechs/mech_krb5/krb5/os/thread_safe.c
201 usr/src/lib/gss_mechs/mech_krb5/krb5/os/unlock_file.c
202 usr/src/lib/gss_mechs/mech_krb5/krb5/os/ustime.c
203 usr/src/lib/gss_mechs/mech_krb5/krb5/os/write_msg.c
204 usr/src/lib/gss_mechs/mech_krb5/krb5/posix/daemon.c
205 usr/src/lib/gss_mechs/mech_krb5/krb5/posix/daemon.c
206 usr/src/lib/gss_mechs/mech_krb5/krb5/rcache/rc_base.h
207 usr/src/lib/gss_mechs/mech_krb5/krb5/rcache/rc_conv.c
208 usr/src/lib/gss_mechs/mech_krb5/krb5/rcache/rc_io.h
209 usr/src/lib/gss_mechs/mech_krb5/krb5/rcache/rc_none.c
210 usr/src/lib/gss_mechs/mech_krb5/krb5/rcache/rc-int.h
211 usr/src/lib/gss_mechs/mech_krb5/krb5/rcache/rcfns.c
212 usr/src/lib/gss_mechs/mech_krb5/mech/add_cred.c
213 usr/src/lib/gss_mechs/mech_krb5/mech/compare_name.c
214 usr/src/lib/gss_mechs/mech_krb5/mech/context_time.c
215 usr/src/lib/gss_mechs/mech_krb5/mech/copy_ccache.c
216 usr/src/lib/gss_mechs/mech_krb5/mech/disp_com_err_status.c
217 usr/src/lib/gss_mechs/mech_krb5/mech/disp_major_status.c
218 usr/src/lib/gss_mechs/mech_krb5/mech/disp_name.c
219 usr/src/lib/gss_mechs/mech_krb5/mech/disp_status.c
220 usr/src/lib/gss_mechs/mech_krb5/mech/export_name.c
221 usr/src/lib/gss_mechs/mech_krb5/mech/export_sec_context.c
222 usr/src/lib/gss_mechs/mech_krb5/mech/gss_libinit.h
223 usr/src/lib/gss_mechs/mech_krb5/mech/import_name.c
224 usr/src/lib/gss_mechs/mech_krb5/mech/indicate_mechs.c
225 usr/src/lib/gss_mechs/mech_krb5/mech/inq_cred.c
226 usr/src/lib/gss_mechs/mech_krb5/mech/inq_names.c
227 usr/src/lib/gss_mechs/mech_krb5/mech/oid_ops.c
228 usr/src/lib/gss_mechs/mech_krb5/mech/process_context_token.c
229 usr/src/lib/gss_mechs/mech_krb5/mech/rel_cred.c
230 usr/src/lib/gss_mechs/mech_krb5/mech/rel_name.c
231 usr/src/lib/gss_mechs/mech_krb5/mech/rel_oid.c
232 usr/src/lib/gss_mechs/mech_krb5/mech/set_allowable_otypes.c
233 usr/src/lib/gss_mechs/mech_krb5/mech/util_buffer.c
234 usr/src/lib/gss_mechs/mech_krb5/mech/util_ctxsetup.c
235 usr/src/lib/gss_mechs/mech_krb5/mech/util_dup.c
236 usr/src/lib/gss_mechs/mech_krb5/mech/utl_nohash_validate.c
237 usr/src/lib/gss_mechs/mech_krb5/profile/prof_err.h
238 usr/src/lib/gss_mechs/mech_krb5/profile/prof_get.c
239 usr/src/lib/gss_mechs/mech_krb5/profile/prof_set.c
240 usr/src/lib/gss_mechs/mech_krb5/support/errors.c
241 usr/src/lib/gss_mechs/mech_krb5/support/fake_addrinfo.c
242 usr/src/lib/gss_mechs/mech_krb5/support/init_addrinfo.c
243 usr/src/lib/gss_mechs/mech_krb5/support/supp-int.h
244 usr/src/lib/gss_mechs/mech_krb5/support/threads.c
245 usr/src/lib/gss_mechs/mech_krb5/support/utf8.c
246 usr/src/lib/krb5/dyn/dyn_append.c
247 usr/src/lib/krb5/dyn/dyn_create.c
248 usr/src/lib/krb5/dyn/dyn_debug.c
249 usr/src/lib/krb5/dyn/dyn_delete.c
250 usr/src/lib/krb5/dyn/dyn_initzero.c
251 usr/src/lib/krb5/dyn/dyn_insert.c
252 usr/src/lib/krb5/dyn/dyn_paranoid.c

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new/exception_lists/copyright

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253 usr/src/lib/krb5/dyn/dyn_put.c
254 usr/src/lib/krb5/dyn/dyn_realloc.c
255 usr/src/lib/krb5/dyn/dyn_size.c
256 usr/src/lib/krb5/kadm5/admin_internal.h
257 usr/src/lib/krb5/kadm5/admin_xdr.h
258 usr/src/lib/krb5/kadm5/chpass_util_strings.h
259 usr/src/lib/krb5/kadm5/clnt/client_handle.c
260 usr/src/lib/krb5/kadm5/clnt/clnt_chpass_util.c
261 usr/src/lib/krb5/kadm5/kadm_rpc.h
262 usr/src/lib/krb5/kadm5/misc_free.c
263 usr/src/lib/krb5/kadm5/srv/server_dict.c
264 usr/src/lib/krb5/kadm5/srv/server_handle.c
265 usr/src/lib/krb5/kadm5/srv/server_misc.c
266 usr/src/lib/krb5/kadm5/srv/svr_iters.c
267 usr/src/lib/krb5/kadm5/srv/svr_misc_free.c
268 usr/src/lib/krb5/kadm5/srv/svr_policy.c
269 usr/src/lib/krb5/kadm5/srv/xdr_alloc.c
270 usr/src/lib/krb5/kdb/adb_err.h
271 usr/src/lib/krb5/kdb/kdb5.h
272 usr/src/lib/krb5/kdb/keytab.c
273 usr/src/lib/krb5/plugins/kdb/db2/adb_policy.c
274 usr/src/lib/krb5/plugins/kdb/db2/kdb_db2.h
275 usr/src/lib/krb5/plugins/kdb/db2/kdb_xdr.c
276 usr/src/lib/krb5/plugins/kdb/db2/kdb_xdr.h
277 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_close.c
278 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_conv.c
279 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_delete.c
280 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_get.c
281 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_open.c
282 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_overflow.c
283 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_page.c
284 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_put.c
285 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_search.c
286 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_split.c
287 usr/src/lib/krb5/plugins/kdb/db2/libdb2/btree/bt_utils.c
288 usr/src/lib/krb5/plugins/kdb/db2/libdb2/db/db.c
289 usr/src/lib/krb5/plugins/kdb/db2/libdb2/hash/hash_bigkey.c
290 usr/src/lib/krb5/plugins/kdb/db2/libdb2/hash/hash_func.c
291 usr/src/lib/krb5/plugins/kdb/db2/libdb2/hash/hash_log2.c
292 usr/src/lib/krb5/plugins/kdb/db2/libdb2/hash/hash_page.c
293 usr/src/lib/krb5/plugins/kdb/db2/libdb2/hash/hash.c
294 usr/src/lib/krb5/plugins/kdb/db2/libdb2/hash/hsearch.c
295 usr/src/lib/krb5/plugins/kdb/db2/libdb2/include/db_ndbm.h
296 usr/src/lib/krb5/plugins/kdb/db2/libdb2/mpool/mpool.c
297 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_close.c
298 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_delete.c
299 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_get.c
300 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_open.c
301 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_put.c
302 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_search.c
303 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_seq.c
304 usr/src/lib/krb5/plugins/kdb/db2/libdb2/recno/rec_utils.c
305 usr/src/lib/krb5/plugins/kdb/db2/pol_xdr.c
306 usr/src/lib/krb5/plugins/kdb/db2/policy_db.h
307 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/kdb_xdr.c
308 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/kdb_xdr.h
309 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_err.c
310 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_err.h
311 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_fetch_mkey.c
312 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_handle.c
313 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_handle.h
314 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_krbcontainer.c
315 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_krbcontainer.h
316 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_principal.h
317 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_pwd_policy.h
318 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_realm.h

```

5

new/exception_lists/copyright

```

319 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_service_rights.c
320 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_service_stash.h
321 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_services.c
322 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_services.h
323 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_tkt_policy.c
324 usr/src/lib/krb5/plugins/kdb/ldap/libkdb_ldap/ldap_tkt_policy.h
325 usr/src/lib/krb5/plugins/preauth/pkinit/pkinit_accessor.c
326 usr/src/lib/krb5/plugins/preauth/pkinit/pkinit_accessor.h
327 usr/src/lib/krb5/plugins/preauth/pkinit/pkinit_lib.c
328 usr/src/lib/krb5/plugins/preauth/pkinit/pkinit_profile.c
329 usr/src/lib/krb5/plugins/preauth/pkinit/pkinit_srv.c
330 usr/src/lib/krb5/ss/copyright.h
331 usr/src/lib/krb5/ss/mit-sipb-copyright.h
332 usr/src/lib/krb5/ss/options.c
333 usr/src/lib/krb5/ss/std_rqs.c
334 usr/src/lib/krb5/ss/utils.c
335 usr/src/lib/librtp/common/*.ch]
336 usr/src/lib/librtp/common/[CRT]*
337 usr/src/test/zfs-tests/tests/functional/history/*Z
338 usr/src/test/zfs-tests/tests/functional/history/*txt
339 usr/src/uts/intel/nsmb/ioc_check.ref
340 usr/src/uts/intel/os/splashimage.xpm
341 usr/src/uts/common/gssapi/mechs/krb5/crypto/block_size.c
342 usr/src/uts/common/gssapi/mechs/krb5/crypto/checksum_length.c
343 usr/src/uts/common/gssapi/mechs/krb5/crypto/des/f_parity.c
344 usr/src/uts/common/gssapi/mechs/krb5/crypto/des/weak_key.c
345 usr/src/uts/common/gssapi/mechs/krb5/crypto/encrypt_length.c
346 usr/src/uts/common/gssapi/mechs/krb5/crypto/hash_provider/hash_crc32.c
347 usr/src/uts/common/gssapi/mechs/krb5/include/aes_s2k.h
348 usr/src/uts/common/gssapi/mechs/krb5/include/auth_con.h
349 usr/src/uts/common/gssapi/mechs/krb5/include/cksumtypes.h
350 usr/src/uts/common/gssapi/mechs/krb5/include/crc-32.h
351 usr/src/uts/common/gssapi/mechs/krb5/include/dk.h
352 usr/src/uts/common/gssapi/mechs/krb5/include/enc_provider.h
353 usr/src/uts/common/gssapi/mechs/krb5/include/etypes.h
354 usr/src/uts/common/gssapi/mechs/krb5/include/raw.h
355 usr/src/uts/common/gssapi/mechs/krb5/krb5/krb/copy_auth.c
356 usr/src/uts/common/gssapi/mechs/krb5/krb5/krb/ser_adata.c
357 usr/src/uts/common/gssapi/mechs/krb5/krb5/krb/ser_addr.c
358 usr/src/uts/common/gssapi/mechs/krb5/krb5/krb/ser_auth.c
359 usr/src/uts/common/gssapi/mechs/krb5/krb5/krb/ser_cksum.c
360 usr/src/uts/common/gssapi/mechs/krb5/krb5/krb/ser_ctx.c
361 usr/src/uts/common/gssapi/mechs/krb5/krb5/krb/ser_key.c
362 usr/src/uts/common/gssapi/mechs/krb5/krb5/os/toffset.c
363 usr/src/uts/common/gssapi/mechs/krb5/mech/util_seed.c
364 usr/src/uts/common/gssapi/mechs/krb5/mech/util_seqnum.c
365 usr/src/uts/common/gssapi/mechs/krb5/mech/val_cred.c
366 usr/src/uts/common/io/ixgbe/ixgbe_82598.c
367 usr/src/uts/common/io/ixgbe/ixgbe_82599.c
368 usr/src/uts/common/io/ixgbe/ixgbe_api.c
369 usr/src/uts/common/io/ixgbe/ixgbe_api.h
370 usr/src/uts/common/io/ixgbe/ixgbe_common.c
371 usr/src/uts/common/io/ixgbe/ixgbe_common.h
372 usr/src/uts/common/io/ixgbe/ixgbe_osdep.h
373 usr/src/uts/common/io/ixgbe/ixgbe_phy.c
374 usr/src/uts/common/io/ixgbe/ixgbe_phy.h
375 usr/src/uts/common/io/ixgbe/ixgbe_type.h
376 usr/src/uts/common/fs/zfs/THIRDPARTYLICENSE.lz4.descrip
377 usr/src/uts/sparc/nsmb/ioc_check.ref

```

6

new/exception_lists/keywords

1

1534 Fri Nov 22 15:19:11 2013

new/exception_lists/keywords

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 # Copyright (c) 2009, 2010, Oracle and/or its affiliates. All rights reserved.
22 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
23 # Copyright (c) 2013 by Delphix. All rights reserved.
24 #

26 syntax: glob
27 usr/src/cmd/localedef/data/zh_CN.UTF-8.src
28 usr/src/cmd/localedef/data/zh_HK.UTF-8.src
29 usr/src/cmd/localedef/data/zh_MO.UTF-8.src
30 usr/src/cmd/localedef/data/zh_SG.UTF-8.src
31 usr/src/cmd/localedef/data/zh_TW.UTF-8.src
32 usr/src/cmd/terminfo/termcap.src
33 usr/src/cmd/terminfo/terminfo.src
34 usr/src/cmd/zonestat/zonestat/zonestat.c
35 usr/src/test/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
36 usr/src/test/zfs-tests/tests/functional/delegate/delegate_common.kshlib
37 usr/src/test/test-runner/cmd/run.py
```

new/usr/src/cmd/zfs/zfs_main.c

1

161785 Fri Nov 22 15:19:12 2013

new/usr/src/cmd/zfs/zfs_main.c

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

unchanged portion omitted

2140 static char *us_type_names[] = { "posixgroup", "posixuser", "smbgroup",

2140 static char *us_type_names[] = { "posixgroup", "posxiuser", "smbgroup",

2141 "smbuser", "all" };

2143 typedef struct us_node {

2144 nvlist_t *usn_nvl;

2145 uu_avl_node_t usn_avlnode;

2146 uu_list_node_t usn_listnode;

2147 } us_node_t;

unchanged portion omitted

new/usr/src/pkg/manifests/system-test-zfstest.mf

1

103653 Fri Nov 22 15:19:13 2013
new/usr/src/pkg/manifests/system-test-zfstest.mf
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # <http://www.illumos.org/license/CDDL>.
10 #

12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #

16 set name=pkg.fmri value=pkg:/system/test/zfstest@\${PKGVERS}
17 set name=pkg.description value="ZFS Test Suite"
18 set name=pkg.summary value="ZFS Functional and Stress Tests"
19 set name=info.classification \
20 value=org.opensolaris.category.2008:Development/System
21 set name=variant.arch value=\${ARCH}
22 dir path=opt/zfs-tests
23 dir path=opt/zfs-tests/bin
24 dir path=opt/zfs-tests/include
25 dir path=opt/zfs-tests/runfiles
26 dir path=opt/zfs-tests/tests
27 dir path=opt/zfs-tests/tests/functional
28 dir path=opt/zfs-tests/tests/functional/acl
29 dir path=opt/zfs-tests/tests/functional/acl/cifs
30 dir path=opt/zfs-tests/tests/functional/acl/nontrivial
31 dir path=opt/zfs-tests/tests/functional/acl/trivial
32 dir path=opt/zfs-tests/tests/functional/atime
33 dir path=opt/zfs-tests/tests/functional/bootfs
34 dir path=opt/zfs-tests/tests/functional/cache
35 dir path=opt/zfs-tests/tests/functional/cachefile
36 dir path=opt/zfs-tests/tests/functional/clean_mirror
37 dir path=opt/zfs-tests/tests/functional/cli_root
38 dir path=opt/zfs-tests/tests/functional/cli_root/zdb
39 dir path=opt/zfs-tests/tests/functional/cli_root/zfs
40 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_clone
41 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_copies
42 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_create
43 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy
44 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_get
45 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_inherit
46 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_mount
47 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_promote
48 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_property
49 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_receive
50 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_rename
51 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_reservation
52 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback
53 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_send
54 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_set

new/usr/src/pkg/manifests/system-test-zfstest.mf

2

55 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_share
56 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot
57 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount
58 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare
59 dir path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade
60 dir path=opt/zfs-tests/tests/functional/cli_root/zpool
61 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_add
62 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_attach
63 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_clear
64 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_create
65 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_destroy
66 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_detach
67 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_expand
68 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_export
69 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_get
70 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_history
71 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_import
72 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_import/blockfiles
73 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_offline
74 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_online
75 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_remove
76 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_replace
77 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub
78 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_set
79 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_status
80 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade
81 dir path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles
82 dir path=opt/zfs-tests/tests/functional/cli_user
83 dir path=opt/zfs-tests/tests/functional/cli_user/misc
84 dir path=opt/zfs-tests/tests/functional/cli_user/zfs_list
85 dir path=opt/zfs-tests/tests/functional/cli_user/zpool_iostat
86 dir path=opt/zfs-tests/tests/functional/cli_user/zpool_list
87 dir path=opt/zfs-tests/tests/functional/compression
88 dir path=opt/zfs-tests/tests/functional/ctime
89 dir path=opt/zfs-tests/tests/functional/delegate
90 dir path=opt/zfs-tests/tests/functional/devices
91 dir path=opt/zfs-tests/tests/functional/exec
92 dir path=opt/zfs-tests/tests/functional/features
93 dir path=opt/zfs-tests/tests/functional/features/async_destroy
94 dir path=opt/zfs-tests/tests/functional/grow_pool
95 dir path=opt/zfs-tests/tests/functional/grow_replicas
96 dir path=opt/zfs-tests/tests/functional/history
97 dir path=opt/zfs-tests/tests/functional/inheritance
98 dir path=opt/zfs-tests/tests/functional/interop
99 dir path=opt/zfs-tests/tests/functional/inuse
100 dir path=opt/zfs-tests/tests/functional/large_files
101 dir path=opt/zfs-tests/tests/functional/largest_pool
102 dir path=opt/zfs-tests/tests/functional/link_count
103 dir path=opt/zfs-tests/tests/functional/mdb
104 dir path=opt/zfs-tests/tests/functional/migration
105 dir path=opt/zfs-tests/tests/functional/mmap
106 dir path=opt/zfs-tests/tests/functional/mount
107 dir path=opt/zfs-tests/tests/functional/mv_files
108 dir path=opt/zfs-tests/tests/functional/nestedfs
109 dir path=opt/zfs-tests/tests/functional/no_space
110 dir path=opt/zfs-tests/tests/functional/nopwrite
111 dir path=opt/zfs-tests/tests/functional/online_offline
112 dir path=opt/zfs-tests/tests/functional/pool_names
113 dir path=opt/zfs-tests/tests/functional/poolversion
114 dir path=opt/zfs-tests/tests/functional/privilege
115 dir path=opt/zfs-tests/tests/functional/quota
116 dir path=opt/zfs-tests/tests/functional/redundancy
117 dir path=opt/zfs-tests/tests/functional/refquota
118 dir path=opt/zfs-tests/tests/functional/refreserv
119 dir path=opt/zfs-tests/tests/functional/rename_dirs
120 dir path=opt/zfs-tests/tests/functional/replacement

```

121 dir path=opt/zfs-tests/tests/functional/reservation
122 dir path=opt/zfs-tests/tests/functional/rootpool
123 dir path=opt/zfs-tests/tests/functional/rsend
124 dir path=opt/zfs-tests/tests/functional/scrub_mirror
125 dir path=opt/zfs-tests/tests/functional/slog
126 dir path=opt/zfs-tests/tests/functional/snapshot
127 dir path=opt/zfs-tests/tests/functional/snapused
128 dir path=opt/zfs-tests/tests/functional/sparse
129 dir path=opt/zfs-tests/tests/functional/threadsappend
130 dir path=opt/zfs-tests/tests/functional/truncate
131 dir path=opt/zfs-tests/tests/functional/userquota
132 dir path=opt/zfs-tests/tests/functional/utills_test
133 dir path=opt/zfs-tests/tests/functional/write_dirs
134 dir path=opt/zfs-tests/tests/functional/xattr
135 dir path=opt/zfs-tests/tests/functional/zvol
136 dir path=opt/zfs-tests/tests/functional/zvol/zvol_ENOSPC
137 dir path=opt/zfs-tests/tests/functional/zvol/zvol_cli
138 dir path=opt/zfs-tests/tests/functional/zvol/zvol_misc
139 dir path=opt/zfs-tests/tests/functional/zvol/zvol_swap
140 file path=opt/zfs-tests/README mode=0444
141 file path=opt/zfs-tests/bin/chg_usr_exec mode=0555
142 file path=opt/zfs-tests/bin/devname2devid mode=0555
143 file path=opt/zfs-tests/bin/dir_rd_update mode=0555
144 file path=opt/zfs-tests/bin/file_check mode=0555
145 file path=opt/zfs-tests/bin/file_trunc mode=0555
146 file path=opt/zfs-tests/bin/file_write mode=0555
147 file path=opt/zfs-tests/bin/largest_file mode=0555
148 file path=opt/zfs-tests/bin/mkbusy mode=0555
149 file path=opt/zfs-tests/bin/mktree mode=0555
150 file path=opt/zfs-tests/bin/mmapwrite mode=0555
151 file path=opt/zfs-tests/bin/randfree_file mode=0555
152 file path=opt/zfs-tests/bin/readmmap mode=0555
153 file path=opt/zfs-tests/bin/rename_dir mode=0555
154 file path=opt/zfs-tests/bin/rm_lnkcnt_zero_file mode=0555
155 file path=opt/zfs-tests/bin/zfstest mode=0555
156 file path=opt/zfs-tests/include/commands.cfg mode=0555
157 file path=opt/zfs-tests/include/default.cfg mode=0555
158 file path=opt/zfs-tests/include/libtest.shlib mode=0555
159 file path=opt/zfs-tests/include/math.shlib mode=0555
160 file path=opt/zfs-tests/include/properties.shlib mode=0555
161 file path=opt/zfs-tests/runfiles/delphix.run mode=0444
162 file path=opt/zfs-tests/runfiles/openindiana.run mode=0444
163 file path=opt/zfs-tests/tests/functional/acl/acl.cfg mode=0555
164 file path=opt/zfs-tests/tests/functional/acl/acl_common.kshlib mode=0555
165 file path=opt/zfs-tests/tests/functional/acl/cifs/cifs.kshlib mode=0555
166 file path=opt/zfs-tests/tests/functional/acl/cifs/cifs_attr_001_pos mode=0555
167 file path=opt/zfs-tests/tests/functional/acl/cifs/cifs_attr_002_pos mode=0555
168 file path=opt/zfs-tests/tests/functional/acl/cifs/cifs_attr_003_pos mode=0555
169 file path=opt/zfs-tests/tests/functional/acl/cifs/cleanup mode=0555
170 file path=opt/zfs-tests/tests/functional/acl/cifs/setup mode=0555
171 file path=opt/zfs-tests/tests/functional/acl/nontrivial/cleanup mode=0555
172 file path=opt/zfs-tests/tests/functional/acl/nontrivial/setup mode=0555
173 file \
174     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_aclmode_restrictc
175     mode=0555
176 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_001_neg \
177     mode=0555
178 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_002_pos \
179     mode=0555
180 file \
181     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_aclmode_001
182     mode=0555
183 file \
184     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_compact_001
185     mode=0555
186 file \

```

```

187     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_delete_001_
188     mode=0555
189 file \
190     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_inherit_001
191     mode=0555
192 file \
193     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_inherit_002
194     mode=0555
195 file \
196     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_inherit_002
197     mode=0555
198 file \
199     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_inherit_003
200     mode=0555
201 file \
202     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_inherit_004
203     mode=0555
204 file \
205     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_owner_001_p
206     mode=0555
207 file \
208     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_rwacl_001_p
209     mode=0555
210 file \
211     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_rwx_001_pos
212     mode=0555
213 file \
214     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_rwx_002_pos
215     mode=0555
216 file \
217     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_rwx_003_pos
218     mode=0555
219 file \
220     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_rwx_004_pos
221     mode=0555
222 file \
223     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_xattr_001_p
224     mode=0555
225 file \
226     path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_chmod_xattr_002_p
227     mode=0555
228 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_cp_001_pos \
229     mode=0555
230 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_cp_002_pos \
231     mode=0555
232 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_cpio_001_pos \
233     mode=0555
234 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_cpio_002_pos \
235     mode=0555
236 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_find_001_pos \
237     mode=0555
238 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_ls_001_pos \
239     mode=0555
240 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_mv_001_pos \
241     mode=0555
242 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_tar_001_pos \
243     mode=0555
244 file path=opt/zfs-tests/tests/functional/acl/nontrivial/zfs_acl_tar_002_pos \
245     mode=0555
246 file path=opt/zfs-tests/tests/functional/acl/trivial/cleanup mode=0555
247 file path=opt/zfs-tests/tests/functional/acl/trivial/setup mode=0555
248 file \
249     path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_aclmode_restricted_0
250     mode=0555
251 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_chmod_001_pos \
252     mode=0555

```

```
253 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_compress_001_pos \
254     mode=0555
255 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_cp_001_pos \
256     mode=0555
257 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_cp_002_neg \
258     mode=0555
259 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_cp_003_neg \
260     mode=0555
261 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_find_001_pos \
262     mode=0555
263 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_find_002_neg \
264     mode=0555
265 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_ls_001_pos \
266     mode=0555
267 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_ls_002_neg \
268     mode=0555
269 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_mv_001_pos \
270     mode=0555
271 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_pack_001_pos \
272     mode=0555
273 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_pax_001_pos \
274     mode=0555
275 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_pax_002_pos \
276     mode=0555
277 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_pax_003_pos \
278     mode=0555
279 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_pax_004_pos \
280     mode=0555
281 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_pax_005_pos \
282     mode=0555
283 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_pax_006_pos \
284     mode=0555
285 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_tar_001_pos \
286     mode=0555
287 file path=opt/zfs-tests/tests/functional/acl/trivial/zfs_acl_tar_002_neg \
288     mode=0555
289 file path=opt/zfs-tests/tests/functional/ctime/ctime.cfg mode=0555
290 file path=opt/zfs-tests/tests/functional/ctime/ctime_001_pos mode=0555
291 file path=opt/zfs-tests/tests/functional/ctime/ctime_002_neg mode=0555
292 file path=opt/zfs-tests/tests/functional/ctime/ctime_common.kshlib mode=0555
293 file path=opt/zfs-tests/tests/functional/ctime/cleanup mode=0555
294 file path=opt/zfs-tests/tests/functional/ctime/setup mode=0555
295 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_001_pos mode=0555
296 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_002_neg mode=0555
297 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_003_pos mode=0555
298 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_004_neg mode=0555
299 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_005_neg mode=0555
300 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_006_pos mode=0555
301 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_007_neg mode=0555
302 file path=opt/zfs-tests/tests/functional/bootfs/bootfs_008_neg mode=0555
303 file path=opt/zfs-tests/tests/functional/cache/cache.cfg mode=0555
304 file path=opt/zfs-tests/tests/functional/cache/cache.kshlib mode=0555
305 file path=opt/zfs-tests/tests/functional/cache/cache_001_pos mode=0555
306 file path=opt/zfs-tests/tests/functional/cache/cache_002_pos mode=0555
307 file path=opt/zfs-tests/tests/functional/cache/cache_003_pos mode=0555
308 file path=opt/zfs-tests/tests/functional/cache/cache_004_neg mode=0555
309 file path=opt/zfs-tests/tests/functional/cache/cache_005_neg mode=0555
310 file path=opt/zfs-tests/tests/functional/cache/cache_006_pos mode=0555
311 file path=opt/zfs-tests/tests/functional/cache/cache_007_neg mode=0555
312 file path=opt/zfs-tests/tests/functional/cache/cache_008_neg mode=0555
313 file path=opt/zfs-tests/tests/functional/cache/cache_009_pos mode=0555
314 file path=opt/zfs-tests/tests/functional/cache/cache_010_neg mode=0555
315 file path=opt/zfs-tests/tests/functional/cache/cache_011_pos mode=0555
316 file path=opt/zfs-tests/tests/functional/cache/cleanup mode=0555
317 file path=opt/zfs-tests/tests/functional/cache/setup mode=0555
318 file path=opt/zfs-tests/tests/functional/cachefile/cachefile.cfg mode=0555
```

```
319 file path=opt/zfs-tests/tests/functional/cachefile/cachefile.kshlib mode=0555
320 file path=opt/zfs-tests/tests/functional/cachefile/cachefile_001_pos mode=0555
321 file path=opt/zfs-tests/tests/functional/cachefile/cachefile_002_pos mode=0555
322 file path=opt/zfs-tests/tests/functional/cachefile/cachefile_003_pos mode=0555
323 file path=opt/zfs-tests/tests/functional/cachefile/cachefile_004_pos mode=0555
324 file path=opt/zfs-tests/tests/functional/clean_mirror/clean_mirror_001_pos \
325     mode=0555
326 file path=opt/zfs-tests/tests/functional/clean_mirror/clean_mirror_002_pos \
327     mode=0555
328 file path=opt/zfs-tests/tests/functional/clean_mirror/clean_mirror_003_pos \
329     mode=0555
330 file path=opt/zfs-tests/tests/functional/clean_mirror/clean_mirror_004_pos \
331     mode=0555
332 file \
333     path=opt/zfs-tests/tests/functional/clean_mirror/clean_mirror_common.kshlib
334     mode=0555
335 file path=opt/zfs-tests/tests/functional/clean_mirror/cleanup mode=0555
336 file path=opt/zfs-tests/tests/functional/clean_mirror/default.cfg mode=0555
337 file path=opt/zfs-tests/tests/functional/clean_mirror/setup mode=0555
338 file path=opt/zfs-tests/tests/functional/cli_root/cli_common.kshlib mode=0555
339 file path=opt/zfs-tests/tests/functional/cli_root/zdb/zdb_001_neg mode=0555
340 file path=opt/zfs-tests/tests/functional/cli_root/zfs/cleanup mode=0555
341 file path=opt/zfs-tests/tests/functional/cli_root/zfs/setup mode=0555
342 file path=opt/zfs-tests/tests/functional/cli_root/zfs/zfs_001_neg mode=0555
343 file path=opt/zfs-tests/tests/functional/cli_root/zfs/zfs_002_pos mode=0555
344 file path=opt/zfs-tests/tests/functional/cli_root/zfs/zfs_003_neg mode=0555
345 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/cleanup mode=0555
346 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/setup mode=0555
347 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_001_neg \
348     mode=0555
349 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_002_pos \
350     mode=0555
351 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_003_pos \
352     mode=0555
353 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_004_pos \
354     mode=0555
355 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_005_pos \
356     mode=0555
357 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_006_pos \
358     mode=0555
359 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_007_pos \
360     mode=0555
361 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_008_neg \
362     mode=0555
363 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_009_neg \
364     mode=0555
365 file path=opt/zfs-tests/tests/functional/cli_root/zfs_clone/zfs_clone_010_pos \
366     mode=0555
367 file path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/cleanup mode=0555
368 file path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/setup mode=0555
369 file path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies.cfg \
370     mode=0555
371 file path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies.kshlib \
372     mode=0555
373 file \
374     path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies_001_pos \
375     mode=0555
376 file \
377     path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies_002_pos \
378     mode=0555
379 file \
380     path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies_003_pos \
381     mode=0555
382 file \
383     path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies_004_neg \
384     mode=0555
```



```
385 file \  
386   path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies_005_neg \  
387   mode=0555  
388 file \  
389   path=opt/zfs-tests/tests/functional/cli_root/zfs_copies/zfs_copies_006_pos \  
390   mode=0555  
391 file path=opt/zfs-tests/tests/functional/cli_root/zfs_create/cleanup mode=0555  
392 file path=opt/zfs-tests/tests/functional/cli_root/zfs_create/properties.kshlib \  
393   mode=0555  
394 file path=opt/zfs-tests/tests/functional/cli_root/zfs_create/setup mode=0555  
395 file path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create.cfg \  
396   mode=0555  
397 file \  
398   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_001_pos \  
399   mode=0555  
400 file \  
401   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_002_pos \  
402   mode=0555  
403 file \  
404   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_003_pos \  
405   mode=0555  
406 file \  
407   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_004_pos \  
408   mode=0555  
409 file \  
410   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_005_pos \  
411   mode=0555  
412 file \  
413   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_006_pos \  
414   mode=0555  
415 file \  
416   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_007_pos \  
417   mode=0555  
418 file \  
419   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_008_neg \  
420   mode=0555  
421 file \  
422   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_009_neg \  
423   mode=0555  
424 file \  
425   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_010_neg \  
426   mode=0555  
427 file \  
428   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_011_pos \  
429   mode=0555  
430 file \  
431   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_012_pos \  
432   mode=0555  
433 file \  
434   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_013_pos \  
435   mode=0555  
436 file \  
437   path=opt/zfs-tests/tests/functional/cli_root/zfs_create/zfs_create_common.ks  
438   mode=0555  
439 file path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/cleanup \  
440   mode=0555  
441 file path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/setup mode=0555  
442 file path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy.cfg \  
443   mode=0555  
444 file \  
445   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_001_pos  
446   mode=0555  
447 file \  
448   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_002_pos  
449   mode=0555  
450 file \  

```

```
451   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_003_pos  
452   mode=0555  
453 file \  
454   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_004_pos  
455   mode=0555  
456 file \  
457   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_005_neg  
458   mode=0555  
459 file \  
460   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_006_neg  
461   mode=0555  
462 file \  
463   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_007_neg  
464   mode=0555  
465 file \  
466   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_008_pos  
467   mode=0555  
468 file \  
469   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_009_pos  
470   mode=0555  
471 file \  
472   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_010_pos  
473   mode=0555  
474 file \  
475   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_011_pos  
476   mode=0555  
477 file \  
478   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_012_pos  
479   mode=0555  
480 file \  
481   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_013_neg  
482   mode=0555  
483 file \  
484   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_014_pos  
485   mode=0555  
486 file \  
487   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_015_pos  
488   mode=0555  
489 file \  
490   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_016_pos  
491   mode=0555  
492 file \  
493   path=opt/zfs-tests/tests/functional/cli_root/zfs_destroy/zfs_destroy_common.  
494   mode=0555  
495 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/cleanup mode=0555  
496 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/setup mode=0555  
497 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_001_pos \  
498   mode=0555  
499 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_002_pos \  
500   mode=0555  
501 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_003_pos \  
502   mode=0555  
503 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_004_pos \  
504   mode=0555  
505 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_005_neg \  
506   mode=0555  
507 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_006_neg \  
508   mode=0555  
509 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_007_neg \  
510   mode=0555  
511 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_008_pos \  
512   mode=0555  
513 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_009_pos \  
514   mode=0555  
515 file path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_010_neg \  
516   mode=0555  

```

```

517 file \
518   path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_common.kshlib \
519   mode=0555
520 file \
521   path=opt/zfs-tests/tests/functional/cli_root/zfs_get/zfs_get_list_d.kshlib \
522   mode=0555
523 file path=opt/zfs-tests/tests/functional/cli_root/zfs_inherit/cleanup \
524   mode=0555
525 file path=opt/zfs-tests/tests/functional/cli_root/zfs_inherit/setup mode=0555
526 file \
527   path=opt/zfs-tests/tests/functional/cli_root/zfs_inherit/zfs_inherit_001_neg
528   mode=0555
529 file \
530   path=opt/zfs-tests/tests/functional/cli_root/zfs_inherit/zfs_inherit_002_neg
531   mode=0555
532 file \
533   path=opt/zfs-tests/tests/functional/cli_root/zfs_inherit/zfs_inherit_003_pos
534   mode=0555
535 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/cleanup mode=0555
536 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/setup mode=0555
537 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount.cfg \
538   mode=0555
539 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount.kshlib \
540   mode=0555
541 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_001_pos \
542   mode=0555
543 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_002_pos \
544   mode=0555
545 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_003_pos \
546   mode=0555
547 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_004_pos \
548   mode=0555
549 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_005_pos \
550   mode=0555
551 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_006_pos \
552   mode=0555
553 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_007_pos \
554   mode=0555
555 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_008_pos \
556   mode=0555
557 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_009_neg \
558   mode=0555
559 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_010_neg \
560   mode=0555
561 file path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_011_neg \
562   mode=0555
563 file \
564   path=opt/zfs-tests/tests/functional/cli_root/zfs_mount/zfs_mount_all_001_pos
565   mode=0555
566 file path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/cleanup \
567   mode=0555
568 file path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/setup mode=0555
569 file path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote.cfg \
570   mode=0555
571 file \
572   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_001_pos
573   mode=0555
574 file \
575   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_002_pos
576   mode=0555
577 file \
578   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_003_pos
579   mode=0555
580 file \
581   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_004_pos
582   mode=0555

```

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583 file \
584   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_005_pos
585   mode=0555
586 file \
587   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_006_neg
588   mode=0555
589 file \
590   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_007_neg
591   mode=0555
592 file \
593   path=opt/zfs-tests/tests/functional/cli_root/zfs_promote/zfs_promote_008_pos
594   mode=0555
595 file path=opt/zfs-tests/tests/functional/cli_root/zfs_property/cleanup \
596   mode=0555
597 file path=opt/zfs-tests/tests/functional/cli_root/zfs_property/setup mode=0555
598 file \
599   path=opt/zfs-tests/tests/functional/cli_root/zfs_property/zfs_written_proper
600   mode=0555
601 file path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/cleanup \
602   mode=0555
603 file path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/setup mode=0555
604 file \
605   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_001_pos
606   mode=0555
607 file \
608   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_002_pos
609   mode=0555
610 file \
611   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_003_pos
612   mode=0555
613 file \
614   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_004_neg
615   mode=0555
616 file \
617   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_005_neg
618   mode=0555
619 file \
620   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_006_pos
621   mode=0555
622 file \
623   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_007_neg
624   mode=0555
625 file \
626   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_008_pos
627   mode=0555
628 file \
629   path=opt/zfs-tests/tests/functional/cli_root/zfs_receive/zfs_receive_009_neg
630   mode=0555
631 file path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/cleanup mode=0555
632 file path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/setup mode=0555
633 file path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename.cfg \
634   mode=0555
635 file path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename.kshlib \
636   mode=0555
637 file \
638   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_001_pos \
639   mode=0555
640 file \
641   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_002_pos \
642   mode=0555
643 file \
644   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_003_pos \
645   mode=0555
646 file \
647   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_004_neg \
648   mode=0555

```

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649 file \
650   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_005_neg \
651   mode=0555
652 file \
653   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_006_pos \
654   mode=0555
655 file \
656   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_007_pos \
657   mode=0555
658 file \
659   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_008_pos \
660   mode=0555
661 file \
662   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_009_neg \
663   mode=0555
664 file \
665   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_010_neg \
666   mode=0555
667 file \
668   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_011_pos \
669   mode=0555
670 file \
671   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_012_neg \
672   mode=0555
673 file \
674   path=opt/zfs-tests/tests/functional/cli_root/zfs_rename/zfs_rename_013_pos \
675   mode=0555
676 file path=opt/zfs-tests/tests/functional/cli_root/zfs_reservation/cleanup \
677   mode=0555
678 file path=opt/zfs-tests/tests/functional/cli_root/zfs_reservation/setup \
679   mode=0555
680 file \
681   path=opt/zfs-tests/tests/functional/cli_root/zfs_reservation/zfs_reservation
682   mode=0555
683 file \
684   path=opt/zfs-tests/tests/functional/cli_root/zfs_reservation/zfs_reservation
685   mode=0555
686 file path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/cleanup \
687   mode=0555
688 file path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/setup mode=0555
689 file \
690   path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/zfs_rollback.cfg \
691   mode=0555
692 file \
693   path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/zfs_rollback_001_p
694   mode=0555
695 file \
696   path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/zfs_rollback_002_p
697   mode=0555
698 file \
699   path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/zfs_rollback_003_n
700   mode=0555
701 file \
702   path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/zfs_rollback_004_n
703   mode=0555
704 file \
705   path=opt/zfs-tests/tests/functional/cli_root/zfs_rollback/zfs_rollback_commo
706   mode=0555
707 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/cleanup mode=0555
708 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/setup mode=0555
709 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/zfs_send.cfg \
710   mode=0555
711 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/zfs_send_001_pos \
712   mode=0555
713 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/zfs_send_002_pos \
714   mode=0555

```

```

715 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/zfs_send_003_pos \
716   mode=0555
717 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/zfs_send_004_neg \
718   mode=0555
719 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/zfs_send_005_pos \
720   mode=0555
721 file path=opt/zfs-tests/tests/functional/cli_root/zfs_send/zfs_send_006_pos \
722   mode=0555
723 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/cache_001_pos \
724   mode=0555
725 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/cache_002_neg \
726   mode=0555
727 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/canmount_001_pos \
728   mode=0555
729 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/canmount_002_pos \
730   mode=0555
731 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/canmount_003_pos \
732   mode=0555
733 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/canmount_004_pos \
734   mode=0555
735 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/checksum_001_pos \
736   mode=0555
737 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/cleanup mode=0555
738 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/compression_001_pos \
739   mode=0555
740 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/mountpoint_001_pos \
741   mode=0555
742 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/mountpoint_002_pos \
743   mode=0555
744 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/mountpoint_003_pos \
745   mode=0555
746 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/onoffs_001_pos \
747   mode=0555
748 file \
749   path=opt/zfs-tests/tests/functional/cli_root/zfs_set/property_alias_001_pos
750   mode=0555
751 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/readonly_001_pos \
752   mode=0555
753 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/reservation_001_neg \
754   mode=0555
755 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/ro_props_001_pos \
756   mode=0555
757 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/setup mode=0555
758 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/share_mount_001_neg \
759   mode=0555
760 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/snapdir_001_pos \
761   mode=0555
762 file \
763   path=opt/zfs-tests/tests/functional/cli_root/zfs_set/user_property_001_pos \
764   mode=0555
765 file \
766   path=opt/zfs-tests/tests/functional/cli_root/zfs_set/user_property_002_pos \
767   mode=0555
768 file \
769   path=opt/zfs-tests/tests/functional/cli_root/zfs_set/user_property_003_neg \
770   mode=0555
771 file \
772   path=opt/zfs-tests/tests/functional/cli_root/zfs_set/user_property_004_pos \
773   mode=0555
774 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/version_001_neg \
775   mode=0555
776 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/zfs_set_001_neg \
777   mode=0555
778 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/zfs_set_002_neg \
779   mode=0555
780 file path=opt/zfs-tests/tests/functional/cli_root/zfs_set/zfs_set_003_neg \

```

```
781 mode=0555
782 file \
783 path=opt/zfs-tests/tests/functional/cli_root/zfs_set/zfs_set_common.kshlib \
784 mode=0555
785 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/cleanup mode=0555
786 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/setup mode=0555
787 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share.cfg \
788 mode=0555
789 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_001_pos \
790 mode=0555
791 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_002_pos \
792 mode=0555
793 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_003_pos \
794 mode=0555
795 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_004_pos \
796 mode=0555
797 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_005_pos \
798 mode=0555
799 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_006_pos \
800 mode=0555
801 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_007_neg \
802 mode=0555
803 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_008_neg \
804 mode=0555
805 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_009_neg \
806 mode=0555
807 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_010_neg \
808 mode=0555
809 file path=opt/zfs-tests/tests/functional/cli_root/zfs_share/zfs_share_011_pos \
810 mode=0555
811 file path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/cleanup \
812 mode=0555
813 file path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/setup mode=0555
814 file \
815 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot.cfg \
816 mode=0555
817 file \
818 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_001_n
819 mode=0555
820 file \
821 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_002_n
822 mode=0555
823 file \
824 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_003_n
825 mode=0555
826 file \
827 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_004_n
828 mode=0555
829 file \
830 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_005_n
831 mode=0555
832 file \
833 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_006_p
834 mode=0555
835 file \
836 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_007_n
837 mode=0555
838 file \
839 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_008_n
840 mode=0555
841 file \
842 path=opt/zfs-tests/tests/functional/cli_root/zfs_snapshot/zfs_snapshot_009_p
843 mode=0555
844 file path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/cleanup \
845 mode=0555
846 file path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/setup mode=0555
```

```
847 file path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount.cfg \
848 mode=0555
849 file \
850 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount.kshlib
851 mode=0555
852 file \
853 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_001_pos
854 mode=0555
855 file \
856 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_002_pos
857 mode=0555
858 file \
859 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_003_pos
860 mode=0555
861 file \
862 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_004_pos
863 mode=0555
864 file \
865 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_005_pos
866 mode=0555
867 file \
868 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_006_pos
869 mode=0555
870 file \
871 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_007_neg
872 mode=0555
873 file \
874 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_008_neg
875 mode=0555
876 file \
877 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_009_pos
878 mode=0555
879 file \
880 path=opt/zfs-tests/tests/functional/cli_root/zfs_unmount/zfs_unmount_all_001
881 mode=0555
882 file path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare/cleanup \
883 mode=0555
884 file path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare/setup mode=0555
885 file \
886 path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare/zfs_unshare_001_pos
887 mode=0555
888 file \
889 path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare/zfs_unshare_002_pos
890 mode=0555
891 file \
892 path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare/zfs_unshare_003_pos
893 mode=0555
894 file \
895 path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare/zfs_unshare_004_neg
896 mode=0555
897 file \
898 path=opt/zfs-tests/tests/functional/cli_root/zfs_unshare/zfs_unshare_005_neg
899 mode=0555
900 file path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/cleanup \
901 mode=0555
902 file path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/setup mode=0555
903 file \
904 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade.kshlib
905 mode=0555
906 file \
907 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade_001_pos
908 mode=0555
909 file \
910 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade_002_pos
911 mode=0555
912 file \
```

```
913 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade_003_pos
914 mode=0555
915 file \
916 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade_004_pos
917 mode=0555
918 file \
919 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade_005_pos
920 mode=0555
921 file \
922 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade_006_neg
923 mode=0555
924 file \
925 path=opt/zfs-tests/tests/functional/cli_root/zfs_upgrade/zfs_upgrade_007_neg
926 mode=0555
927 file path=opt/zfs-tests/tests/functional/cli_root/zpool/cleanup mode=0555
928 file path=opt/zfs-tests/tests/functional/cli_root/zpool/setup mode=0555
929 file path=opt/zfs-tests/tests/functional/cli_root/zpool/zpool_001_neg \
930 mode=0555
931 file path=opt/zfs-tests/tests/functional/cli_root/zpool/zpool_002_pos \
932 mode=0555
933 file path=opt/zfs-tests/tests/functional/cli_root/zpool/zpool_003_pos \
934 mode=0555
935 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/cleanup mode=0555
936 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/setup mode=0555
937 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add.cfg \
938 mode=0555
939 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add.kshlib \
940 mode=0555
941 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_001_pos \
942 mode=0555
943 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_002_pos \
944 mode=0555
945 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_003_pos \
946 mode=0555
947 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_004_pos \
948 mode=0555
949 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_005_pos \
950 mode=0555
951 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_006_pos \
952 mode=0555
953 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_007_neg \
954 mode=0555
955 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_008_neg \
956 mode=0555
957 file path=opt/zfs-tests/tests/functional/cli_root/zpool_add/zpool_add_009_neg \
958 mode=0555
959 file path=opt/zfs-tests/tests/functional/cli_root/zpool_attach/cleanup \
960 mode=0555
961 file path=opt/zfs-tests/tests/functional/cli_root/zpool_attach/setup mode=0555
962 file \
963 path=opt/zfs-tests/tests/functional/cli_root/zpool_attach/zpool_attach_001_n
964 mode=0555
965 file path=opt/zfs-tests/tests/functional/cli_root/zpool_clear/cleanup \
966 mode=0555
967 file path=opt/zfs-tests/tests/functional/cli_root/zpool_clear/setup mode=0555
968 file path=opt/zfs-tests/tests/functional/cli_root/zpool_clear/zpool_clear.cfg \
969 mode=0555
970 file \
971 path=opt/zfs-tests/tests/functional/cli_root/zpool_clear/zpool_clear_001_pos
972 mode=0555
973 file \
974 path=opt/zfs-tests/tests/functional/cli_root/zpool_clear/zpool_clear_002_neg
975 mode=0555
976 file \
977 path=opt/zfs-tests/tests/functional/cli_root/zpool_clear/zpool_clear_003_neg
978 mode=0555
```

```
979 file path=opt/zfs-tests/tests/functional/cli_root/zpool_create/cleanup \
980 mode=0555
981 file path=opt/zfs-tests/tests/functional/cli_root/zpool_create/setup mode=0555
982 file \
983 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create.cfg \
984 mode=0555
985 file \
986 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create.shlib
987 mode=0555
988 file \
989 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_001_p
990 mode=0555
991 file \
992 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_002_p
993 mode=0555
994 file \
995 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_003_p
996 mode=0555
997 file \
998 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_004_p
999 mode=0555
1000 file \
1001 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_005_p
1002 mode=0555
1003 file \
1004 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_006_p
1005 mode=0555
1006 file \
1007 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_007_n
1008 mode=0555
1009 file \
1010 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_008_p
1011 mode=0555
1012 file \
1013 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_009_n
1014 mode=0555
1015 file \
1016 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_010_n
1017 mode=0555
1018 file \
1019 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_011_n
1020 mode=0555
1021 file \
1022 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_012_n
1023 mode=0555
1024 file \
1025 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_013_n
1026 mode=0555
1027 file \
1028 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_014_n
1029 mode=0555
1030 file \
1031 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_015_n
1032 mode=0555
1033 file \
1034 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_016_p
1035 mode=0555
1036 file \
1037 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_017_n
1038 mode=0555
1039 file \
1040 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_018_p
1041 mode=0555
1042 file \
1043 path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_019_p
1044 mode=0555
```

```

1045 file \
1046   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_020_p
1047   mode=0555
1048 file \
1049   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_021_p
1050   mode=0555
1051 file \
1052   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_022_p
1053   mode=0555
1054 file \
1055   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_023_n
1056   mode=0555
1057 file \
1058   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_featu
1059   mode=0555
1060 file \
1061   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_featu
1062   mode=0555
1063 file \
1064   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_featu
1065   mode=0555
1066 file \
1067   path=opt/zfs-tests/tests/functional/cli_root/zpool_create/zpool_create_featu
1068   mode=0555
1069 file \
1070   path=opt/zfs-tests/tests/functional/cli_root/zpool_destroy/zpool_destroy.cfg
1071   mode=0555
1072 file \
1073   path=opt/zfs-tests/tests/functional/cli_root/zpool_destroy/zpool_destroy_001
1074   mode=0555
1075 file \
1076   path=opt/zfs-tests/tests/functional/cli_root/zpool_destroy/zpool_destroy_002
1077   mode=0555
1078 file \
1079   path=opt/zfs-tests/tests/functional/cli_root/zpool_destroy/zpool_destroy_003
1080   mode=0555
1081 file path=opt/zfs-tests/tests/functional/cli_root/zpool_detach/cleanup \
1082   mode=0555
1083 file path=opt/zfs-tests/tests/functional/cli_root/zpool_detach/setup mode=0555
1084 file \
1085   path=opt/zfs-tests/tests/functional/cli_root/zpool_detach/zpool_detach_001_n
1086   mode=0555
1087 file path=opt/zfs-tests/tests/functional/cli_root/zpool_expand/cleanup \
1088   mode=0555
1089 file path=opt/zfs-tests/tests/functional/cli_root/zpool_expand/setup mode=0555
1090 file \
1091   path=opt/zfs-tests/tests/functional/cli_root/zpool_expand/zpool_expand.cfg \
1092   mode=0555
1093 file \
1094   path=opt/zfs-tests/tests/functional/cli_root/zpool_expand/zpool_expand_001_p
1095   mode=0555
1096 file \
1097   path=opt/zfs-tests/tests/functional/cli_root/zpool_expand/zpool_expand_002_p
1098   mode=0555
1099 file \
1100   path=opt/zfs-tests/tests/functional/cli_root/zpool_expand/zpool_expand_003_n
1101   mode=0555
1102 file path=opt/zfs-tests/tests/functional/cli_root/zpool_export/cleanup \
1103   mode=0555
1104 file path=opt/zfs-tests/tests/functional/cli_root/zpool_export/setup mode=0555
1105 file \
1106   path=opt/zfs-tests/tests/functional/cli_root/zpool_export/zpool_export_001_p
1107   mode=0555
1108 file \
1109   path=opt/zfs-tests/tests/functional/cli_root/zpool_export/zpool_export_002_p
1110   mode=0555

```

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1111 file \
1112   path=opt/zfs-tests/tests/functional/cli_root/zpool_export/zpool_export_003_n
1113   mode=0555
1114 file \
1115   path=opt/zfs-tests/tests/functional/cli_root/zpool_export/zpool_export_004_p
1116   mode=0555
1117 file path=opt/zfs-tests/tests/functional/cli_root/zpool_get/cleanup mode=0555
1118 file path=opt/zfs-tests/tests/functional/cli_root/zpool_get/setup mode=0555
1119 file path=opt/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get.cfg \
1120   mode=0555
1121 file path=opt/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get_001_pos \
1122   mode=0555
1123 file path=opt/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get_002_pos \
1124   mode=0555
1125 file path=opt/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get_003_pos \
1126   mode=0555
1127 file path=opt/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get_004_neg \
1128   mode=0555
1129 file path=opt/zfs-tests/tests/functional/cli_root/zpool_history/cleanup \
1130   mode=0555
1131 file path=opt/zfs-tests/tests/functional/cli_root/zpool_history/setup \
1132   mode=0555
1133 file \
1134   path=opt/zfs-tests/tests/functional/cli_root/zpool_history/zpool_history_001
1135   mode=0555
1136 file \
1137   path=opt/zfs-tests/tests/functional/cli_root/zpool_history/zpool_history_002
1138   mode=0555
1139 file \
1140   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/blockfiles/unclean
1141   mode=0444
1142 file path=opt/zfs-tests/tests/functional/cli_root/zpool_import/cleanup \
1143   mode=0555
1144 file path=opt/zfs-tests/tests/functional/cli_root/zpool_import/setup mode=0555
1145 file \
1146   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import.cfg \
1147   mode=0555
1148 file \
1149   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_001_p
1150   mode=0555
1151 file \
1152   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_002_p
1153   mode=0555
1154 file \
1155   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_003_p
1156   mode=0555
1157 file \
1158   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_004_p
1159   mode=0555
1160 file \
1161   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_005_p
1162   mode=0555
1163 file \
1164   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_006_p
1165   mode=0555
1166 file \
1167   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_007_p
1168   mode=0555
1169 file \
1170   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_008_p
1171   mode=0555
1172 file \
1173   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_009_n
1174   mode=0555
1175 file \
1176   path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_010_p

```

```
1177 mode=0555
1178 file \
1179 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_011_n
1180 mode=0555
1181 file \
1182 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_012_p
1183 mode=0555
1184 file \
1185 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_013_n
1186 mode=0555
1187 file \
1188 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_all_0
1189 mode=0555
1190 file \
1191 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_featu
1192 mode=0555
1193 file \
1194 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_featu
1195 mode=0555
1196 file \
1197 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_featu
1198 mode=0555
1199 file \
1200 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_missi
1201 mode=0555
1202 file \
1203 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_missi
1204 mode=0555
1205 file \
1206 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_missi
1207 mode=0555
1208 file \
1209 path=opt/zfs-tests/tests/functional/cli_root/zpool_import/zpool_import_renam
1210 mode=0555
1211 file path=opt/zfs-tests/tests/functional/cli_root/zpool_offline/cleanup \
1212 mode=0555
1213 file path=opt/zfs-tests/tests/functional/cli_root/zpool_offline/setup \
1214 mode=0555
1215 file \
1216 path=opt/zfs-tests/tests/functional/cli_root/zpool_offline/zpool_offline_001
1217 mode=0555
1218 file \
1219 path=opt/zfs-tests/tests/functional/cli_root/zpool_offline/zpool_offline_002
1220 mode=0555
1221 file path=opt/zfs-tests/tests/functional/cli_root/zpool_online/cleanup \
1222 mode=0555
1223 file path=opt/zfs-tests/tests/functional/cli_root/zpool_online/setup mode=0555
1224 file \
1225 path=opt/zfs-tests/tests/functional/cli_root/zpool_online/zpool_online_001_p
1226 mode=0555
1227 file \
1228 path=opt/zfs-tests/tests/functional/cli_root/zpool_online/zpool_online_002_n
1229 mode=0555
1230 file path=opt/zfs-tests/tests/functional/cli_root/zpool_remove/cleanup \
1231 mode=0555
1232 file path=opt/zfs-tests/tests/functional/cli_root/zpool_remove/setup mode=0555
1233 file \
1234 path=opt/zfs-tests/tests/functional/cli_root/zpool_remove/zpool_remove.cfg \
1235 mode=0555
1236 file \
1237 path=opt/zfs-tests/tests/functional/cli_root/zpool_remove/zpool_remove_001_n
1238 mode=0555
1239 file \
1240 path=opt/zfs-tests/tests/functional/cli_root/zpool_remove/zpool_remove_002_p
1241 mode=0555
1242 file \
```

```
1243 path=opt/zfs-tests/tests/functional/cli_root/zpool_remove/zpool_remove_003_p
1244 mode=0555
1245 file path=opt/zfs-tests/tests/functional/cli_root/zpool_replace/cleanup \
1246 mode=0555
1247 file path=opt/zfs-tests/tests/functional/cli_root/zpool_replace/setup \
1248 mode=0555
1249 file \
1250 path=opt/zfs-tests/tests/functional/cli_root/zpool_replace/zpool_replace_001
1251 mode=0555
1252 file path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/cleanup \
1253 mode=0555
1254 file path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/setup mode=0555
1255 file path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/zpool_scrub.cfg \
1256 mode=0555
1257 file \
1258 path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/zpool_scrub_001_neg
1259 mode=0555
1260 file \
1261 path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/zpool_scrub_002_pos
1262 mode=0555
1263 file \
1264 path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/zpool_scrub_003_pos
1265 mode=0555
1266 file \
1267 path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/zpool_scrub_004_pos
1268 mode=0555
1269 file \
1270 path=opt/zfs-tests/tests/functional/cli_root/zpool_scrub/zpool_scrub_005_pos
1271 mode=0555
1272 file path=opt/zfs-tests/tests/functional/cli_root/zpool_set/zpool_set_001_pos \
1273 mode=0555
1274 file path=opt/zfs-tests/tests/functional/cli_root/zpool_set/zpool_set_002_neg \
1275 mode=0555
1276 file path=opt/zfs-tests/tests/functional/cli_root/zpool_set/zpool_set_003_neg \
1277 mode=0555
1278 file path=opt/zfs-tests/tests/functional/cli_root/zpool_status/cleanup \
1279 mode=0555
1280 file path=opt/zfs-tests/tests/functional/cli_root/zpool_status/setup mode=0555
1281 file \
1282 path=opt/zfs-tests/tests/functional/cli_root/zpool_status/zpool_status_001_p
1283 mode=0555
1284 file \
1285 path=opt/zfs-tests/tests/functional/cli_root/zpool_status/zpool_status_002_p
1286 mode=0555
1287 file \
1288 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-br
1289 mode=0444
1290 file \
1291 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-br
1292 mode=0444
1293 file \
1294 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
1295 mode=0444
1296 file \
1297 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
1298 mode=0444
1299 file \
1300 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
1301 mode=0444
1302 file \
1303 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
1304 mode=0444
1305 file \
1306 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
1307 mode=0444
1308 file \
```



```

1441 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
1442 mode=0444
1443 file path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/cleanup \
1444 mode=0555
1445 file path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/setup \
1446 mode=0555
1447 file \
1448 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade.cfg
1449 mode=0555
1450 file \
1451 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade.ksh
1452 mode=0555
1453 file \
1454 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_001
1455 mode=0555
1456 file \
1457 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_002
1458 mode=0555
1459 file \
1460 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_003
1461 mode=0555
1462 file \
1463 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_004
1464 mode=0555
1465 file \
1466 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_005
1467 mode=0555
1468 file \
1469 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_006
1470 mode=0555
1471 file \
1472 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_007
1473 mode=0555
1474 file \
1475 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_008
1476 mode=0555
1477 file \
1478 path=opt/zfs-tests/tests/functional/cli_root/zpool_upgrade/zpool_upgrade_009
1479 mode=0555
1480 file path=opt/zfs-tests/tests/functional/cli_user/misc/cleanup mode=0555
1481 file path=opt/zfs-tests/tests/functional/cli_user/misc/misc.cfg mode=0555
1482 file path=opt/zfs-tests/tests/functional/cli_user/misc/setup mode=0555
1483 file path=opt/zfs-tests/tests/functional/cli_user/misc/zdb_001_neg mode=0555
1484 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_001_neg mode=0555
1485 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_allow_001_neg \
1486 mode=0555
1487 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_clone_001_neg \
1488 mode=0555
1489 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_create_001_neg \
1490 mode=0555
1491 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_destroy_001_neg \
1492 mode=0555
1493 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_get_001_neg \
1494 mode=0555
1495 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_inherit_001_neg \
1496 mode=0555
1497 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_mount_001_neg \
1498 mode=0555
1499 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_promote_001_neg \
1500 mode=0555
1501 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_receive_001_neg \
1502 mode=0555
1503 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_rename_001_neg \
1504 mode=0555
1505 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_rollback_001_neg \
1506 mode=0555

```

```

1507 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_send_001_neg \
1508 mode=0555
1509 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_set_001_neg \
1510 mode=0555
1511 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_share_001_neg \
1512 mode=0555
1513 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_snapshot_001_neg \
1514 mode=0555
1515 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_unallow_001_neg \
1516 mode=0555
1517 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_unmount_001_neg \
1518 mode=0555
1519 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_unshare_001_neg \
1520 mode=0555
1521 file path=opt/zfs-tests/tests/functional/cli_user/misc/zfs_upgrade_001_neg \
1522 mode=0555
1523 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_001_neg mode=0555
1524 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_add_001_neg \
1525 mode=0555
1526 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_attach_001_neg \
1527 mode=0555
1528 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_clear_001_neg \
1529 mode=0555
1530 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_create_001_neg \
1531 mode=0555
1532 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_destroy_001_neg \
1533 mode=0555
1534 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_detach_001_neg \
1535 mode=0555
1536 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_export_001_neg \
1537 mode=0555
1538 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_get_001_neg \
1539 mode=0555
1540 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_history_001_neg \
1541 mode=0555
1542 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_import_001_neg \
1543 mode=0555
1544 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_import_002_neg \
1545 mode=0555
1546 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_offline_001_neg \
1547 mode=0555
1548 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_online_001_neg \
1549 mode=0555
1550 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_remove_001_neg \
1551 mode=0555
1552 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_replace_001_neg \
1553 mode=0555
1554 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_scrub_001_neg \
1555 mode=0555
1556 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_set_001_neg \
1557 mode=0555
1558 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_status_001_neg \
1559 mode=0555
1560 file path=opt/zfs-tests/tests/functional/cli_user/misc/zpool_upgrade_001_neg \
1561 mode=0555
1562 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/cleanup mode=0555
1563 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/setup mode=0555
1564 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list.cfg \
1565 mode=0555
1566 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list.kshlib \
1567 mode=0555
1568 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_001_pos \
1569 mode=0555
1570 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_002_pos \
1571 mode=0555
1572 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_003_pos \

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1573 mode=0555
1574 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_004_neg \
1575 mode=0555
1576 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_007_pos \
1577 mode=0555
1578 file path=opt/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_008_neg \
1579 mode=0555
1580 file path=opt/zfs-tests/tests/functional/cli_user/zpool_iostat/cleanup \
1581 mode=0555
1582 file path=opt/zfs-tests/tests/functional/cli_user/zpool_iostat/setup mode=0555
1583 file \
1584 path=opt/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_001_n
1585 mode=0555
1586 file \
1587 path=opt/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_002_p
1588 mode=0555
1589 file \
1590 path=opt/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_003_n
1591 mode=0555
1592 file path=opt/zfs-tests/tests/functional/cli_user/zpool_list/cleanup mode=0555
1593 file path=opt/zfs-tests/tests/functional/cli_user/zpool_list/setup mode=0555
1594 file \
1595 path=opt/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_001_pos \
1596 mode=0555
1597 file \
1598 path=opt/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_002_neg \
1599 mode=0555
1600 file path=opt/zfs-tests/tests/functional/compression/cleanup mode=0555
1601 file path=opt/zfs-tests/tests/functional/compression/compress.cfg mode=0555
1602 file path=opt/zfs-tests/tests/functional/compression/compress_001_pos \
1603 mode=0555
1604 file path=opt/zfs-tests/tests/functional/compression/compress_002_pos \
1605 mode=0555
1606 file path=opt/zfs-tests/tests/functional/compression/compress_003_pos \
1607 mode=0555
1608 file path=opt/zfs-tests/tests/functional/compression/compress_004_pos \
1609 mode=0555
1610 file path=opt/zfs-tests/tests/functional/compression/setup mode=0555
1611 file path=opt/zfs-tests/tests/functional/ctime/cleanup mode=0555
1612 file path=opt/zfs-tests/tests/functional/ctime/ctime_001_pos mode=0555
1613 file path=opt/zfs-tests/tests/functional/ctime/setup mode=0555
1614 file path=opt/zfs-tests/tests/functional/delegate/cleanup mode=0555
1615 file path=opt/zfs-tests/tests/functional/delegate/delegate.cfg mode=0555
1616 file path=opt/zfs-tests/tests/functional/delegate/delegate_common.kshlib \
1617 mode=0555
1618 file path=opt/zfs-tests/tests/functional/delegate/setup mode=0555
1619 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_001_pos mode=0555
1620 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_002_pos mode=0555
1621 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_003_pos mode=0555
1622 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_004_pos mode=0555
1623 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_005_pos mode=0555
1624 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_006_pos mode=0555
1625 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_007_pos mode=0555
1626 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_008_pos mode=0555
1627 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_009_neg mode=0555
1628 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_010_pos mode=0555
1629 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_011_neg mode=0555
1630 file path=opt/zfs-tests/tests/functional/delegate/zfs_allow_012_neg mode=0555
1631 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_001_pos \
1632 mode=0555
1633 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_002_pos \
1634 mode=0555
1635 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_003_pos \
1636 mode=0555
1637 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_004_pos \
1638 mode=0555

```

```

1639 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_005_pos \
1640 mode=0555
1641 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_006_pos \
1642 mode=0555
1643 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_007_neg \
1644 mode=0555
1645 file path=opt/zfs-tests/tests/functional/delegate/zfs_unallow_008_neg \
1646 mode=0555
1647 file path=opt/zfs-tests/tests/functional/devices/cleanup mode=0555
1648 file path=opt/zfs-tests/tests/functional/devices/devices.cfg mode=0555
1649 file path=opt/zfs-tests/tests/functional/devices/devices_001_pos mode=0555
1650 file path=opt/zfs-tests/tests/functional/devices/devices_002_neg mode=0555
1651 file path=opt/zfs-tests/tests/functional/devices/devices_003_pos mode=0555
1652 file path=opt/zfs-tests/tests/functional/devices/devices_common.kshlib \
1653 mode=0555
1654 file path=opt/zfs-tests/tests/functional/devices/setup mode=0555
1655 file path=opt/zfs-tests/tests/functional/exec/cleanup mode=0555
1656 file path=opt/zfs-tests/tests/functional/exec/exec_001_pos mode=0555
1657 file path=opt/zfs-tests/tests/functional/exec/exec_002_neg mode=0555
1658 file path=opt/zfs-tests/tests/functional/exec/mmap_exec mode=0555
1659 file path=opt/zfs-tests/tests/functional/exec/setup mode=0555
1660 file \
1661 path=opt/zfs-tests/tests/functional/features/async_destroy/async_destroy_001
1662 mode=0555
1663 file path=opt/zfs-tests/tests/functional/features/async_destroy/cleanup \
1664 mode=0555
1665 file path=opt/zfs-tests/tests/functional/features/async_destroy/setup \
1666 mode=0555
1667 file path=opt/zfs-tests/tests/functional/grow_pool/cleanup mode=0555
1668 file path=opt/zfs-tests/tests/functional/grow_pool/grow_pool.cfg mode=0555
1669 file path=opt/zfs-tests/tests/functional/grow_pool/grow_pool_001_pos mode=0555
1670 file path=opt/zfs-tests/tests/functional/grow_pool/setup mode=0555
1671 file path=opt/zfs-tests/tests/functional/grow_replicas/cleanup mode=0555
1672 file path=opt/zfs-tests/tests/functional/grow_replicas/grow_replicas.cfg \
1673 mode=0555
1674 file path=opt/zfs-tests/tests/functional/grow_replicas/grow_replicas_001_pos \
1675 mode=0555
1676 file path=opt/zfs-tests/tests/functional/grow_replicas/setup mode=0555
1677 file path=opt/zfs-tests/tests/functional/history/cleanup mode=0555
1678 file path=opt/zfs-tests/tests/functional/history/history.cfg mode=0555
1679 file path=opt/zfs-tests/tests/functional/history/history_001_pos mode=0555
1680 file path=opt/zfs-tests/tests/functional/history/history_002_pos mode=0555
1681 file path=opt/zfs-tests/tests/functional/history/history_003_pos mode=0555
1682 file path=opt/zfs-tests/tests/functional/history/history_004_pos mode=0555
1683 file path=opt/zfs-tests/tests/functional/history/history_005_neg mode=0555
1684 file path=opt/zfs-tests/tests/functional/history/history_006_neg mode=0555
1685 file path=opt/zfs-tests/tests/functional/history/history_007_pos mode=0555
1686 file path=opt/zfs-tests/tests/functional/history/history_008_pos mode=0555
1687 file path=opt/zfs-tests/tests/functional/history/history_009_pos mode=0555
1688 file path=opt/zfs-tests/tests/functional/history/history_010_pos mode=0555
1689 file path=opt/zfs-tests/tests/functional/history/history_common.kshlib \
1690 mode=0555
1691 file path=opt/zfs-tests/tests/functional/history/i386.migratedpool.DAT.Z \
1692 mode=0444
1693 file path=opt/zfs-tests/tests/functional/history/i386.orig_history.txt \
1694 mode=0444
1695 file path=opt/zfs-tests/tests/functional/history/setup mode=0555
1696 file path=opt/zfs-tests/tests/functional/history/sparc.migratedpool.DAT.Z \
1697 mode=0444
1698 file path=opt/zfs-tests/tests/functional/history/sparc.orig_history.txt \
1699 mode=0444
1700 file path=opt/zfs-tests/tests/functional/history/zfs-pool-v4.dat.Z mode=0444
1701 file path=opt/zfs-tests/tests/functional/inheritance/cleanup mode=0555
1702 file path=opt/zfs-tests/tests/functional/inheritance/config001.cfg mode=0555
1703 file path=opt/zfs-tests/tests/functional/inheritance/config002.cfg mode=0555
1704 file path=opt/zfs-tests/tests/functional/inheritance/config003.cfg mode=0555

```



```
2101 file path=opt/zfs-tests/tests/functional/xattr/cleanup mode=0555
2102 file path=opt/zfs-tests/tests/functional/xattr/setup mode=0555
2103 file path=opt/zfs-tests/tests/functional/xattr/xattr_001_pos mode=0555
2104 file path=opt/zfs-tests/tests/functional/xattr/xattr_002_neg mode=0555
2105 file path=opt/zfs-tests/tests/functional/xattr/xattr_003_neg mode=0555
2106 file path=opt/zfs-tests/tests/functional/xattr/xattr_004_pos mode=0555
2107 file path=opt/zfs-tests/tests/functional/xattr/xattr_005_pos mode=0555
2108 file path=opt/zfs-tests/tests/functional/xattr/xattr_006_pos mode=0555
2109 file path=opt/zfs-tests/tests/functional/xattr/xattr_007_neg mode=0555
2110 file path=opt/zfs-tests/tests/functional/xattr/xattr_008_pos mode=0555
2111 file path=opt/zfs-tests/tests/functional/xattr/xattr_009_neg mode=0555
2112 file path=opt/zfs-tests/tests/functional/xattr/xattr_010_neg mode=0555
2113 file path=opt/zfs-tests/tests/functional/xattr/xattr_011_pos mode=0555
2114 file path=opt/zfs-tests/tests/functional/xattr/xattr_012_pos mode=0555
2115 file path=opt/zfs-tests/tests/functional/xattr/xattr_013_pos mode=0555
2116 file path=opt/zfs-tests/tests/functional/xattr/xattr_common.kshlib mode=0555
2117 file path=opt/zfs-tests/tests/functional/zvol/zvol.cfg mode=0555
2118 file path=opt/zfs-tests/tests/functional/zvol/zvol_ENOSPC/cleanup mode=0555
2119 file path=opt/zfs-tests/tests/functional/zvol/zvol_ENOSPC/setup mode=0555
2120 file path=opt/zfs-tests/tests/functional/zvol/zvol_ENOSPC/zvol_ENOSPC_001_pos \
2121 mode=0555
2122 file path=opt/zfs-tests/tests/functional/zvol/zvol_cli/cleanup mode=0555
2123 file path=opt/zfs-tests/tests/functional/zvol/zvol_cli/setup mode=0555
2124 file path=opt/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_001_pos \
2125 mode=0555
2126 file path=opt/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_002_pos \
2127 mode=0555
2128 file path=opt/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_003_neg \
2129 mode=0555
2130 file path=opt/zfs-tests/tests/functional/zvol/zvol_common.shlib mode=0555
2131 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/cleanup mode=0555
2132 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/setup mode=0555
2133 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_001_neg \
2134 mode=0555
2135 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_002_pos \
2136 mode=0555
2137 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_003_neg \
2138 mode=0555
2139 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_004_pos \
2140 mode=0555
2141 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_005_neg \
2142 mode=0555
2143 file path=opt/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_006_pos \
2144 mode=0555
2145 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/cleanup mode=0555
2146 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/setup mode=0555
2147 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap.cfg \
2148 mode=0555
2149 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_001_pos \
2150 mode=0555
2151 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_002_pos \
2152 mode=0555
2153 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_003_pos \
2154 mode=0555
2155 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_004_pos \
2156 mode=0555
2157 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_005_pos \
2158 mode=0555
2159 file path=opt/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_006_pos \
2160 mode=0555
2161 license cr_Sun license=cr_Sun
2162 license lic_CDDL license=lic_CDDL
2163 depend fmri=system/file-system/zfs/tests type=require
2164 depend fmri=system/test/testrunner type=require
2165 depend fmri=system/xopen/xcu4 type=require
```

new/usr/src/test/test-runner/cmd/run.py

1

```
*****
30469 Fri Nov 22 15:19:14 2013
new/usr/src/test/test-runner/cmd/run.py
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
1 #!/usr/bin/python2.6

3 #
4 # This file and its contents are supplied under the terms of the
5 # Common Development and Distribution License ("CDDL"), version 1.0.
6 # You may only use this file in accordance with the terms of version
7 # 1.0 of the CDDL.
8 #
9 # A full copy of the text of the CDDL should have accompanied this
10 # source. A copy of the CDDL is also available via the Internet at
11 # http://www.illumos.org/license/CDDL.
12 #

14 #
15 # Copyright (c) 2013 by Delphix. All rights reserved.
16 # Copyright (c) 2012 by Delphix. All rights reserved.

18 import ConfigParser
19 import os
20 import logging
21 from datetime import datetime
22 from optparse import OptionParser
23 from pwd import getpwnam
24 from pwd import getpwuid
25 from select import select
26 from subprocess import PIPE
27 from subprocess import Popen
28 from sys import argv
29 from sys import exit
30 from threading import Timer
31 from time import time

33 BASEDIR = '/var/tmp/test_results'
34 KILL = '/usr/bin/kill'
35 TRUE = '/usr/bin/true'
36 SUDO = '/usr/bin/sudo'

39 class Result(object):
40     total = 0
41     runresults = {'PASS': 0, 'FAIL': 0, 'SKIP': 0, 'KILLED': 0}

43     def __init__(self):
44         self.starttime = None
45         self.returncode = None
46         self.runtime = ''
47         self.stdout = []
48         self.stderr = []
49         self.result = ''

51     def done(self, proc, killed):
52         """
53         Finalize the results of this Cmd.
```

new/usr/src/test/test-runner/cmd/run.py

2

```
54     """
55     Result.total += 1
56     m, s = divmod(time() - self.starttime, 60)
57     self.runtime = '%02d:%02d' % (m, s)
58     self.returncode = proc.returncode
59     if killed:
60         self.result = 'KILLED'
61         Result.runresults['KILLED'] += 1
62     elif self.returncode is 0:
63         self.result = 'PASS'
64         Result.runresults['PASS'] += 1
65     elif self.returncode is not 0:
66         self.result = 'FAIL'
67         Result.runresults['FAIL'] += 1

70 class Output(object):
71     """
72     This class is a slightly modified version of the 'Stream' class found
73     here: http://goo.gl/aSGfv
74     """
75     def __init__(self, stream):
76         self.stream = stream
77         self._buf = ''
78         self.lines = []

80     def fileno(self):
81         return self.stream.fileno()

83     def read(self, drain=0):
84         """
85         Read from the file descriptor. If 'drain' set, read until EOF.
86         """
87         while self._read() is not None:
88             if not drain:
89                 break

91     def _read(self):
92         """
93         Read up to 4k of data from this output stream. Collect the output
94         up to the last newline, and append it to any leftover data from a
95         previous call. The lines are stored as a (timestamp, data) tuple
96         for easy sorting/merging later.
97         """
98         fd = self.fileno()
99         buf = os.read(fd, 4096)
100         if not buf:
101             return None
102         if '\n' not in buf:
103             self._buf += buf
104             return []

106         buf = self._buf + buf
107         tmp, rest = buf.rsplit('\n', 1)
108         self._buf = rest
109         now = datetime.now()
110         rows = tmp.split('\n')
111         self.lines += [(now, r) for r in rows]

114 class Cmd(object):
115     verified_users = []

117     def __init__(self, pathname, outputdir=None, timeout=None, user=None):
118         self.pathname = pathname
119         self.outputdir = outputdir or 'BASEDIR'
```

```

120     self.timeout = timeout or 60
121     self.user = user or ''
122     self.killed = False
123     self.result = Result()

125     def __str__(self):
126         return "Pathname: %s\nOutputdir: %s\nTimeout: %s\nUser: %s\n" % (
127             self.pathname, self.outputdir, self.timeout, self.user)

129     def kill_cmd(self, proc):
130         """
131         Kill a running command due to timeout, or ^C from the keyboard. If
132         sudo is required, this user was verified previously.
133         """
134         self.killed = True
135         do_sudo = len(self.user) != 0
136         signal = '--TERM'

138         cmd = [SUDO, KILL, signal, str(proc.pid)]
139         if not do_sudo:
140             del cmd[0]

142         try:
143             kp = Popen(cmd)
144             kp.wait()
145         except:
146             pass

148     def update_cmd_privs(self, cmd, user):
149         """
150         If a user has been specified to run this Cmd and we're not already
151         running as that user, prepend the appropriate sudo command to run
152         as that user.
153         """
154         me = getpwuid(os.getuid())

156         if not user or user is me:
157             return cmd

159         ret = '%s -E -u %s %s' % (SUDO, user, cmd)
160         return ret.split(' ')

162     def collect_output(self, proc):
163         """
164         Read from stdout/stderr as data becomes available, until the
165         process is no longer running. Return the lines from the stdout and
166         stderr Output objects.
167         """
168         out = Output(proc.stdout)
169         err = Output(proc.stderr)
170         res = []
171         while proc.returncode is None:
172             proc.poll()
173             res = select([out, err], [], [], .1)
174             for fd in res[0]:
175                 fd.read()
176         for fd in res[0]:
177             fd.read(drain=1)

179         return out.lines, err.lines

181     def run(self, options):
182         """
183         This is the main function that runs each individual test.
184         Determine whether or not the command requires sudo, and modify it
185         if needed. Run the command, and update the result object.

```

```

186         """
187         if options.dryrun is True:
188             print self
189             return

191         privcmd = self.update_cmd_privs(self.pathname, self.user)
192         try:
193             old = os.umask(0)
194             if not os.path.isdir(self.outputdir):
195                 os.makedirs(self.outputdir, mode=0777)
196             os.umask(old)
197         except OSError, e:
198             fail('%s' % e)

200         try:
201             self.result.starttime = time()
202             proc = Popen(privcmd, stdout=PIPE, stderr=PIPE)
203             t = Timer(int(self.timeout), self.kill_cmd, [proc])
204             t.start()
205             self.result.stdout, self.result.stderr = self.collect_output(proc)
206         except KeyboardInterrupt:
207             self.kill_cmd(proc)
208             fail('\nRun terminated at user request.')
209         finally:
210             t.cancel()

212         self.result.done(proc, self.killed)

214     def skip(self):
215         """
216         Initialize enough of the test result that we can log a skipped
217         command.
218         """
219         Result.total += 1
220         Result.runresults['SKIP'] += 1
221         self.result.stdout = self.result.stderr = []
222         self.result.starttime = time()
223         m, s = divmod(time() - self.result.starttime, 60)
224         self.result.runtime = '%02d:%02d' % (m, s)
225         self.result.result = 'SKIP'

227     def log(self, logger, options):
228         """
229         This function is responsible for writing all output. This includes
230         the console output, the logfile of all results (with timestamped
231         merged stdout and stderr), and for each test, the unmodified
232         stdout/stderr/merged in it's own file.
233         """
234         if logger is None:
235             return

237         logname = getpwuid(os.getuid()).pw_name
238         user = ' (run as %s)' % (self.user if len(self.user) else logname)
239         user = ' (run as %s)' % self.user if len(self.user) else ''
240         msga = 'Test: %s%s' % (self.pathname, user)
241         msgb = '[%s] [%s]' % (self.result.runtime, self.result.result)
242         pad = ' ' * (80 - (len(msga) + len(msgb)))

243         # If -q is specified, only print a line for tests that didn't pass.
244         # This means passing tests need to be logged as DEBUG, or the one
245         # line summary will only be printed in the logfile for failures.
246         if not options.quiet:
247             logger.info('%s%s%s' % (msga, pad, msgb))
248         elif self.result.result is not 'PASS':
249             logger.info('%s%s%s' % (msga, pad, msgb))
250         else:

```



```

251     logger.debug('%s%s' % (msga, pad, msgb))
252
253     lines = self.result.stdout + self.result.stderr
254     for dt, line in sorted(lines):
255         logger.debug('%s %s' % (dt.strftime("%H:%M:%S.%f "):[11], line))
256
257     if len(self.result.stdout):
258         with open(os.path.join(self.outputdir, 'stdout'), 'w') as out:
259             for _, line in self.result.stdout:
260                 os.write(out.fileno(), '%s\n' % line)
261     if len(self.result.stderr):
262         with open(os.path.join(self.outputdir, 'stderr'), 'w') as err:
263             for _, line in self.result.stderr:
264                 os.write(err.fileno(), '%s\n' % line)
265     if len(self.result.stdout) and len(self.result.stderr):
266         with open(os.path.join(self.outputdir, 'merged'), 'w') as merged:
267             for _, line in sorted(lines):
268                 os.write(merged.fileno(), '%s\n' % line)
269
270 class Test(Cmd):
271     props = ['outputdir', 'timeout', 'user', 'pre', 'pre_user', 'post',
272            'post_user']
273
274     def __init__(self, pathname, outputdir=None, timeout=None, user=None,
275                pre=None, pre_user=None, post=None, post_user=None):
276         super(Test, self).__init__(pathname, outputdir, timeout, user)
277         self.pre = pre or ''
278         self.pre_user = pre_user or ''
279         self.post = post or ''
280         self.post_user = post_user or ''
281
282     def __str__(self):
283         post_user = pre_user = ''
284         if len(self.pre_user):
285             pre_user = ' (as %s)' % (self.pre_user)
286         if len(self.post_user):
287             post_user = ' (as %s)' % (self.post_user)
288         return "Pathname: %s\nOutputdir: %s\nTimeout: %s\nPre: %s\nPost: " \
289                "%s\nUser: %s\n" % (self.pathname, self.outputdir,
290                self.timeout, self.pre, pre_user, self.post, post_user,
291                self.user)
292
293     def verify(self, logger):
294         """
295         Check the pre/post scripts, user and Test. Omit the Test from this
296         run if there are any problems.
297         """
298         files = [self.pre, self.pathname, self.post]
299         users = [self.pre_user, self.user, self.post_user]
300
301         for f in [f for f in files if len(f)]:
302             if not verify_file(f):
303                 logger.info("Warning: Test '%s' not added to this run because"
304                    " it failed verification." % f)
305                 return False
306
307         for user in [user for user in users if len(user)]:
308             if not verify_user(user, logger):
309                 logger.info("Not adding Test '%s' to this run." %
310                    self.pathname)
311                 return False
312
313         return True
314
315     def run(self, logger, options):

```

```

317         """
318         Create Cmd instances for the pre/post scripts. If the pre script
319         doesn't pass, skip this Test. Run the post script regardless.
320         """
321         pretest = Cmd(self.pre, outputdir=os.path.join(self.outputdir,
322                os.path.basename(self.pre)), timeout=self.timeout,
323                user=self.pre_user)
324         test = Cmd(self.pathname, outputdir=self.outputdir,
325                timeout=self.timeout, user=self.user)
326         posttest = Cmd(self.post, outputdir=os.path.join(self.outputdir,
327                os.path.basename(self.post)), timeout=self.timeout,
328                user=self.post_user)
329
330         cont = True
331         if len(pretest.pathname):
332             pretest.run(options)
333             cont = pretest.result.result is 'PASS'
334             pretest.log(logger, options)
335
336         if cont:
337             test.run(options)
338         else:
339             test.skip()
340
341         test.log(logger, options)
342
343         if len(posttest.pathname):
344             posttest.run(options)
345             posttest.log(logger, options)
346
347 class TestGroup(Test):
348     props = Test.props + ['tests']
349
350     def __init__(self, pathname, outputdir=None, timeout=None, user=None,
351                pre=None, pre_user=None, post=None, post_user=None,
352                tests=None):
353         super(TestGroup, self).__init__(pathname, outputdir, timeout, user,
354                pre, pre_user, post, post_user)
355         self.tests = tests or []
356
357     def __str__(self):
358         post_user = pre_user = ''
359         if len(self.pre_user):
360             pre_user = ' (as %s)' % (self.pre_user)
361         if len(self.post_user):
362             post_user = ' (as %s)' % (self.post_user)
363         return "Pathname: %s\nOutputdir: %s\nTests: %s\nTimeout: %s\n" \
364                "Pre: %s\nPost: %s\nUser: %s\n" % (self.pathname,
365                self.outputdir, self.tests, self.timeout, self.pre, pre_user,
366                self.post, post_user, self.user)
367
368     def verify(self, logger):
369         """
370         Check the pre/post scripts, user and tests in this TestGroup. Omit
371         the TestGroup entirely, or simply delete the relevant tests in the
372         group, if that's all that's required.
373         """
374         # If the pre or post scripts are relative pathnames, convert to
375         # absolute, so they stand a chance of passing verification.
376         if len(self.pre) and not os.path.isabs(self.pre):
377             self.pre = os.path.join(self.pathname, self.pre)
378         if len(self.post) and not os.path.isabs(self.post):
379             self.post = os.path.join(self.pathname, self.post)
380
381         auxfiles = [self.pre, self.post]

```

```

383     users = [self.pre_user, self.user, self.post_user]
384
385     for f in [f for f in auxfiles if len(f)]:
386         if self.pathname != os.path.dirname(f):
387             logger.info("Warning: TestGroup '%s' not added to this run. "
388                        "Auxiliary script '%s' exists in a different "
389                        "directory." % (self.pathname, f))
390             return False
391
392         if not verify_file(f):
393             logger.info("Warning: TestGroup '%s' not added to this run. "
394                        "Auxiliary script '%s' failed verification." %
395                        (self.pathname, f))
396             return False
397
398     for user in [user for user in users if len(user)]:
399         if not verify_user(user, logger):
400             logger.info("Not adding TestGroup '%s' to this run." %
401                        self.pathname)
402             return False
403
404     # If one of the tests is invalid, delete it, log it, and drive on.
405     for test in self.tests:
406         if not verify_file(os.path.join(self.pathname, test)):
407             del self.tests[self.tests.index(test)]
408             logger.info("Warning: Test '%s' removed from TestGroup '%s' "
409                        "because it failed verification." % (test,
410                        self.pathname))
411
412     return len(self.tests) is not 0
413
414     def run(self, logger, options):
415         """
416         Create Cmd instances for the pre/post scripts. If the pre script
417         doesn't pass, skip all the tests in this TestGroup. Run the post
418         script regardless.
419         """
420         pretest = Cmd(self.pre, outputdir=os.path.join(self.outputdir,
421                os.path.basename(self.pre)), timeout=self.timeout,
422                user=self.pre_user)
423         posttest = Cmd(self.post, outputdir=os.path.join(self.outputdir,
424                os.path.basename(self.post)), timeout=self.timeout,
425                user=self.post_user)
426
427         cont = True
428         if len(pretest.pathname):
429             pretest.run(options)
430             cont = pretest.result.result is 'PASS'
431             pretest.log(logger, options)
432
433         for fname in self.tests:
434             test = Cmd(os.path.join(self.pathname, fname),
435                outputdir=os.path.join(self.outputdir, fname),
436                timeout=self.timeout, user=self.user)
437             if cont:
438                 test.run(options)
439             else:
440                 test.skip()
441
442             test.log(logger, options)
443
444         if len(posttest.pathname):
445             posttest.run(options)
446             posttest.log(logger, options)

```

```

449     class TestRun(object):
450         props = ['quiet', 'outputdir']
451
452         def __init__(self, options):
453             self.tests = {}
454             self.testgroups = {}
455             self.starttime = time()
456             self.timestamp = datetime.now().strftime('%Y%m%dT%H%M%S')
457             self.outputdir = os.path.join(options.outputdir, self.timestamp)
458             self.logger = self.setup_logging(options)
459             self.defaults = [
460                 ('outputdir', BASEDIR),
461                 ('quiet', False),
462                 ('timeout', 60),
463                 ('user', ''),
464                 ('pre', ''),
465                 ('pre_user', ''),
466                 ('post', ''),
467                 ('post_user', '')
468             ]
469
470         def __str__(self):
471             s = 'TestRun:\n    outputdir: %s\n' % self.outputdir
472             s += 'TESTS:\n'
473             for key in sorted(self.tests.keys()):
474                 s += '%s%s' % (self.tests[key].__str__(), '\n')
475             s += 'TESTGROUPS:\n'
476             for key in sorted(self.testgroups.keys()):
477                 s += '%s%s' % (self.testgroups[key].__str__(), '\n')
478             return s
479
480         def addtest(self, pathname, options):
481             """
482             Create a new Test, and apply any properties that were passed in
483             from the command line. If it passes verification, add it to the
484             TestRun.
485             """
486             test = Test(pathname)
487             for prop in Test.props:
488                 setattr(test, prop, getattr(options, prop))
489
490             if test.verify(self.logger):
491                 self.tests[pathname] = test
492
493         def addtestgroup(self, dirname, filenames, options):
494             """
495             Create a new TestGroup, and apply any properties that were passed
496             in from the command line. If it passes verification, add it to the
497             TestRun.
498             """
499             if dirname not in self.testgroups:
500                 testgroup = TestGroup(dirname)
501                 for prop in Test.props:
502                     setattr(testgroup, prop, getattr(options, prop))
503
504             # Prevent pre/post scripts from running as regular tests
505             for f in [testgroup.pre, testgroup.post]:
506                 if f in filenames:
507                     del filenames[filenames.index(f)]
508
509             self.testgroups[dirname] = testgroup
510             self.testgroups[dirname].tests = sorted(filenames)
511
512             testgroup.verify(self.logger)
513
514         def read(self, logger, options):

```

```

515 """
516 Read in the specified runfile, and apply the TestRun properties
517 listed in the 'DEFAULT' section to our TestRun. Then read each
518 section, and apply the appropriate properties to the Test or
519 TestGroup. Properties from individual sections override those set
520 in the 'DEFAULT' section. If the Test or TestGroup passes
521 verification, add it to the TestRun.
522 """
523 config = ConfigParser.RawConfigParser()
524 if not len(config.read(options.runfile)):
525     fail("Couldn't read config file %s" % options.runfile)

527 for opt in TestRun.props:
528     if config.has_option('DEFAULT', opt):
529         setattr(self, opt, config.get('DEFAULT', opt))
530 self.outputdir = os.path.join(self.outputdir, self.timestamp)

532 for section in config.sections():
533     if 'tests' in config.options(section):
534         testgroup = TestGroup(section)
535         for prop in TestGroup.props:
536             try:
537                 setattr(testgroup, prop, config.get('DEFAULT', prop))
538                 setattr(testgroup, prop, config.get(section, prop))
539             except ConfigParser.NoOptionError:
540                 pass

542     # Repopulate tests using eval to convert the string to a list
543     testgroup.tests = eval(config.get(section, 'tests'))

545     if testgroup.verify(logger):
546         self.testgroups[section] = testgroup
547     else:
548         test = Test(section)
549         for prop in Test.props:
550             try:
551                 setattr(test, prop, config.get('DEFAULT', prop))
552                 setattr(test, prop, config.get(section, prop))
553             except ConfigParser.NoOptionError:
554                 pass
555         if test.verify(logger):
556             self.tests[section] = test

558 def write(self, options):
559     """
560     Create a configuration file for editing and later use. The
561     'DEFAULT' section of the config file is created from the
562     properties that were specified on the command line. Tests are
563     simply added as sections that inherit everything from the
564     'DEFAULT' section. TestGroups are the same, except they get an
565     option including all the tests to run in that directory.
566     """

568     defaults = dict([(prop, getattr(options, prop)) for prop, _ in
569                     self.defaults])
570     config = ConfigParser.RawConfigParser(defaults)

572     for test in sorted(self.tests.keys()):
573         config.add_section(test)

575     for testgroup in sorted(self.testgroups.keys()):
576         config.add_section(testgroup)
577         config.set(testgroup, 'tests', self.testgroups[testgroup].tests)

579     try:
580         with open(options.template, 'w') as f:

```

```

581         return config.write(f)
582     except IOError:
583         fail('Could not open \'%s\' for writing.' % options.template)

585 def complete_outputdirs(self, options):
586     """
587     Collect all the pathnames for Tests, and TestGroups. Work
588     backwards one pathname component at a time, to create a unique
589     directory name in which to deposit test output. Tests will be able
590     to write output files directly in the newly modified outputdir.
591     TestGroups will be able to create one subdirectory per test in the
592     outputdir, and are guaranteed uniqueness because a group can only
593     contain files in one directory. Pre and post tests will create a
594     directory rooted at the outputdir of the Test or TestGroup in
595     question for their output.
596     """
597     done = False
598     components = 0
599     tmp_dict = dict(self.tests.items() + self.testgroups.items())
600     total = len(tmp_dict)
601     base = self.outputdir

603     while not done:
604         l = []
605         components -= 1
606         for testfile in tmp_dict.keys():
607             uniq = '/'.join(testfile.split('/')[components:]).rstrip('/')
608             if not uniq in l:
609                 l.append(uniq)
610                 tmp_dict[testfile].outputdir = os.path.join(base, uniq)
611             else:
612                 break
613         done = total == len(l)

615 def setup_logging(self, options):
616     """
617     Two loggers are set up here. The first is for the logfile which
618     will contain one line summarizing the test, including the test
619     name, result, and running time. This logger will also capture the
620     timestamped combined stdout and stderr of each run. The second
621     logger is optional console output, which will contain only the one
622     line summary. The loggers are initialized at two different levels
623     to facilitate segregating the output.
624     """
625     if options.dryrun is True:
626         return

628     testlogger = logging.getLogger(__name__)
629     testlogger.setLevel(logging.DEBUG)

631     if options.cmd is not 'wrconfig':
632         try:
633             old = os.umask(0)
634             os.makedirs(self.outputdir, mode=0777)
635             os.umask(old)
636         except OSError, e:
637             fail('%s' % e)
638         filename = os.path.join(self.outputdir, 'log')

640         logfile = logging.FileHandler(filename)
641         logfile.setLevel(logging.DEBUG)
642         logfilefmt = logging.Formatter('%(message)s')
643         logfile.setFormatter(logfilefmt)
644         testlogger.addHandler(logfile)

646     cons = logging.StreamHandler()

```

```

647     cons.setLevel(logging.INFO)
648     consfmt = logging.Formatter('%(message)s')
649     cons.setFormatter(consfmt)
650     testlogger.addHandler(cons)

652     return testlogger

654 def run(self, options):
655     """
656     Walk through all the Tests and TestGroups, calling run().
657     """
658     try:
659         os.chdir(self.outputdir)
660     except OSError:
661         fail('Could not change to directory %s' % self.outputdir)
662     for test in sorted(self.tests.keys()):
663         self.tests[test].run(self.logger, options)
664     for testgroup in sorted(self.testgroups.keys()):
665         self.testgroups[testgroup].run(self.logger, options)

667 def summary(self):
668     if Result.total is 0:
669         return

671     print '\nResults Summary'
672     for key in Result.runresults.keys():
673         if Result.runresults[key] is not 0:
674             print '%s\t% 4d' % (key, Result.runresults[key])

676     m, s = divmod(time() - self.starttime, 60)
677     h, m = divmod(m, 60)
678     print '\nRunning Time:\t%02d:%02d:%02d' % (h, m, s)
679     print 'Percent passed:\t%.1f%%' % ((float(Result.runresults['PASS']) /
680         float(Result.total)) * 100)
681     print 'Log directory:\t%s' % self.outputdir

684 def verify_file(pathname):
685     """
686     Verify that the supplied pathname is an executable regular file.
687     """
688     if os.path.isdir(pathname) or os.path.islink(pathname):
689         return False

691     if os.path.isfile(pathname) and os.access(pathname, os.X_OK):
692         return True

694     return False

697 def verify_user(user, logger):
698     """
699     Verify that the specified user exists on this system, and can execute
700     sudo without being prompted for a password.
701     """
702     testcmd = [SUDO, '-n', '-u', user, TRUE]
703     can_sudo = exists = True

705     if user in Cmd.verified_users:
706         return True

708     try:
709         _ = getpwnam(user)
710     except KeyError:
711         exists = False
712     logger.info("Warning: user '%s' does not exist.", user)

```

```

713         return False

715     p = Popen(testcmd)
716     p.wait()
717     if p.returncode is not 0:
718         logger.info("Warning: user '%s' cannot use passwordless sudo.", user)
719         return False
720     else:
721         Cmd.verified_users.append(user)

723     return True

726 def find_tests(testrun, options):
727     """
728     For the given list of pathnames, add files as Tests. For directories,
729     if do_groups is True, add the directory as a TestGroup. If False,
730     recursively search for executable files.
731     """

733     for p in sorted(options.pathnames):
734         if os.path.isdir(p):
735             for dirname, _, filenames in os.walk(p):
736                 if options.do_groups:
737                     testrun.addtestgroup(dirname, filenames, options)
738                 else:
739                     for f in sorted(filenames):
740                         testrun.addtest(os.path.join(dirname, f), options)
741         else:
742             testrun.addtest(p, options)

745 def fail(retstr, ret=1):
746     print '%s: %s' % (argv[0], retstr)
747     exit(ret)

750 def options_cb(option, opt_str, value, parser):
751     path_options = ['runfile', 'outputdir', 'template']

753     if option.dest is 'runfile' and '-w' in parser.rargs or \
754        option.dest is 'template' and '-c' in parser.rargs:
755         fail('-c and -w are mutually exclusive.')

757     if opt_str in parser.rargs:
758         fail('%s may only be specified once.' % opt_str)

760     if option.dest is 'runfile':
761         parser.values.cmd = 'rdconfig'
762     if option.dest is 'template':
763         parser.values.cmd = 'wrconfig'

765     setattr(parser.values, option.dest, value)
766     if option.dest in path_options:
767         setattr(parser.values, option.dest, os.path.abspath(value))

770 def parse_args():
771     parser = OptionParser()
772     parser.add_option('-c', action='callback', callback=options_cb,
773                     type='string', dest='runfile', metavar='runfile',
774                     help='Specify tests to run via config file.')
775     parser.add_option('-d', action='store_true', default=False, dest='dryrun',
776                     help='Dry run. Print tests, but take no other action.')
777     parser.add_option('-g', action='store_true', default=False,
778                     dest='do_groups', help='Make directories TestGroups.')

```

```
779 parser.add_option('-o', action='callback', callback=options_cb,
780                  default=BASEDIR, dest='outputdir', type='string',
781                  metavar='outputdir', help='Specify an output directory.')
782 parser.add_option('-p', action='callback', callback=options_cb,
783                  default='', dest='pre', metavar='script',
784                  type='string', help='Specify a pre script.')
785 parser.add_option('-P', action='callback', callback=options_cb,
786                  default='', dest='post', metavar='script',
787                  type='string', help='Specify a post script.')
788 parser.add_option('-q', action='store_true', default=False, dest='quiet',
789                  help='Silence on the console during a test run.')
790 parser.add_option('-t', action='callback', callback=options_cb, default=60,
791                  dest='timeout', metavar='seconds', type='int',
792                  help='Timeout (in seconds) for an individual test.')
793 parser.add_option('-u', action='callback', callback=options_cb,
794                  default='', dest='user', metavar='user', type='string',
795                  help='Specify a different user name to run as.')
796 parser.add_option('-w', action='callback', callback=options_cb,
797                  default=None, dest='template', metavar='template',
798                  type='string', help='Create a new config file.')
799 parser.add_option('-x', action='callback', callback=options_cb, default='',
800                  dest='pre_user', metavar='pre_user', type='string',
801                  help='Specify a user to execute the pre script.')
802 parser.add_option('-X', action='callback', callback=options_cb, default='',
803                  dest='post_user', metavar='post_user', type='string',
804                  help='Specify a user to execute the post script.')
805 (options, pathnames) = parser.parse_args()

807 if not options.runfile and not options.template:
808     options.cmd = 'runtests'

810 if options.runfile and len(pathnames):
811     fail('Extraneous arguments.')

813 options.pathnames = [os.path.abspath(path) for path in pathnames]

815 return options

818 def main(args):
819     options = parse_args()
820     testrun = TestRun(options)

822     if options.cmd is 'runtests':
823         find_tests(testrun, options)
824     elif options.cmd is 'rdconfig':
825         testrun.read(testrun.logger, options)
826     elif options.cmd is 'wrconfig':
827         find_tests(testrun, options)
828         testrun.write(options)
829         exit(0)
830     else:
831         fail('Unknown command specified')

833     testrun.complete_outputdirs(options)
834     testrun.run(options)
835     testrun.summary()
836     exit(0)

839 if __name__ == '__main__':
840     main(argv[1:])
```

new/usr/src/test/zfs-tests/include/commands.cfg

1

```
*****
5113 Fri Nov 22 15:19:15 2013
new/usr/src/test/zfs-tests/include/commands.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 # Copyright (c) 2012 by Delphix. All rights reserved.
15 #
16 export ARP="/usr/sbin/arp"
17 export AWK="/usr/bin/awk"
18 export BASENAME="/usr/bin/basename"
19 export BC="/usr/bin/bc"
20 export BUNZIP2="/usr/bin/bunzip2"
21 export BZCAT="/usr/bin/bzcat"
22 # bzip2, bunzip2 and bzcat prepend the contents of $BZIP2 or $BZIP to any
23 # arguments. Setting BZIP2 here will lead to hard-to-diagnose unhappiness.
24 export CAT="/usr/bin/cat"
25 export CD="/usr/bin/cd"
26 export CHGRP="/usr/bin/chgrp"
27 export CHMOD="/usr/bin/chmod"
28 export CHOWN="/usr/bin/chown"
29 export CKSUM="/usr/bin/cksum"
30 export CLRI="/usr/sbin/clri"
31 export CMP="/usr/bin/cmp"
32 export COMPRESS="/usr/bin/compress"
33 export COREADM="/usr/bin/coreadm"
34 export CP="/usr/bin/cp"
35 export CPIO="/usr/bin/cpio"
36 export CUT="/usr/bin/cut"
37 export DATE="/usr/bin/date"
38 export DD="/usr/bin/dd"
39 export DEVFSADM="/usr/sbin/devfsadm"
40 export DF="/usr/bin/df"
41 export DIFF="/usr/bin/diff"
42 export DIRCMP="/usr/bin/dircmp"
43 export DIRNAME="/usr/bin/dirname"
44 export DU="/usr/bin/du"
45 export DUMPADM="/usr/sbin/dumpadm"
46 export ECHO="/usr/bin/echo"
47 export EGREP="/usr/bin/egrep"
48 # Don't use $ENV here, because in ksh scripts it evaluates to
49 # $HOME/.kshrc - likely not what you wanted.
50 export FDISK="/usr/sbin/fdisk"
51 export FF="/usr/sbin/ff"
52 export FGREP="/usr/bin/fgrep"
53 export FILE="/usr/bin/file"
```

new/usr/src/test/zfs-tests/include/commands.cfg

2

```
54 export FIND="/usr/bin/find"
55 export FMADM="/usr/sbin/fmadm"
56 export FMDUMP="/usr/sbin/fmdump"
57 export FORMAT="/usr/sbin/format"
58 export FSCK="/usr/sbin/fsck"
59 export FSDB="/usr/sbin/fsdb"
60 export FSIRAND="/usr/sbin/fsirand"
61 export FSTYP="/usr/sbin/fstyp"
62 export GETENT="/usr/bin/getent"
63 export GETMAJOR="/usr/sbin/getmajor"
64 export GNUDD="/usr/gnu/bin/dd"
65 export GREP="/usr/bin/grep"
66 export GROUPADD="/usr/sbin/groupadd"
67 export GROUPDEL="/usr/sbin/groupdel"
68 export GROUPOD="/usr/sbin/groupod"
69 export GROUPS="/usr/bin/groups"
70 export HEAD="/usr/bin/head"
71 export HOSTNAME="/usr/bin/hostname"
72 export ID="/usr/bin/id"
73 export ISAINFO="/usr/bin/isainfo"
74 export ISCSIADM="/usr/sbin/iscsiadm"
75 export KILL="/usr/bin/kill"
76 export KSH="/usr/bin/ksh"
77 export KSTAT="/usr/bin/kstat"
78 export LABELIT="/usr/sbin/labelit"
79 export LOCKFS="/usr/sbin/lockfs"
80 export LOFIADM="/usr/sbin/lofiadm"
81 export LOGNAME="/usr/bin/logname"
82 export LS="/usr/bin/ls"
83 export MD5SUM="/usr/bin/md5sum"
84 export MDB="/usr/bin/mdb"
85 export METACLEAR="/usr/sbin/metaclear"
86 export METADB="/usr/sbin/metadb"
87 export METAINIT="/usr/sbin/metainit"
88 export METASTAT="/usr/sbin/metastat"
89 export MKDIR="/usr/bin/mkdir"
90 export MKFILE="/usr/sbin/mkfile"
91 export MKNOD="/usr/sbin/mknod"
92 export MODINFO="/usr/sbin/modinfo"
93 export MODUNLOAD="/usr/sbin/modunload"
94 export MOUNT="/usr/sbin/mount"
95 export MV="/usr/bin/mv"
96 export NAWK="/usr/bin/nawk"
97 export NCHECK="/usr/sbin/ncheck"
98 export NEWFS="/usr/sbin/newfs"
99 export PACK="/usr/bin/pack"
100 export PAGESIZE="/usr/bin/pagesize"
101 export PAX="/usr/bin/pax"
102 export PFEXEC="/usr/bin/pfexec"
103 export PGREP="/usr/bin/pgrep"
104 export PING="/usr/sbin/ping"
105 export PKGINFO="/usr/bin/pkginfo"
106 export PKILL="/usr/bin/pkill"
107 export PPRIV="/usr/bin/ppriv"
108 export PRINTF="/usr/bin/printf"
109 export PRTVTOC="/usr/sbin/prtvtoct"
110 export PS="/usr/bin/ps"
111 export PSRINFO="/usr/sbin/psrinfo"
112 export PWD="/usr/bin/pwd"
113 export PYTHON="/usr/bin/python"
114 export QUOTAON="/usr/sbin/quotaon"
115 export RCP="/usr/bin/rcp"
116 export REBOOT="/usr/sbin/reboot"
117 export RM="/usr/bin/rm"
118 export RMDIR="/usr/bin/rmdir"
119 export RSH="/usr/bin/rsh"
```

```
120 export RUNAT="/usr/bin/runat"
121 export SED="/usr/bin/sed"
122 export SHARE="/usr/sbin/share"
123 export SHUF="/usr/bin/shuf"
124 export SLEEP="/usr/bin/sleep"
125 export SORT="/usr/bin/sort"
126 export STRINGS="/usr/bin/strings"
127 export SU="/usr/bin/su"
128 export SUM="/usr/bin/sum"
129 export SVCADM="/usr/sbin/svcadm"
130 export SVCS="/usr/bin/svcs"
131 export SWAP="/usr/sbin/swap"
132 export SWAPADD="/sbin/swapadd"
133 export SYNC="/usr/bin/sync"
134 export TAIL="/usr/bin/tail"
135 export TAR="/usr/sbin/tar"
136 export TOUCH="/usr/bin/touch"
137 export TR="/usr/bin/tr"
138 export TRUE="/usr/bin/true"
139 export TUNEFSS="/usr/sbin/tunefs"
140 export UFSDUMP="/usr/sbin/ufsdump"
141 export UFSRESTORE="/usr/sbin/ufsrestore"
142 export UMASK="/usr/bin/umask"
143 export UMOUNT="/usr/sbin/umount"
144 export UMOUNTALL="/usr/sbin/umountall"
145 export UNAME="/usr/bin/uname"
146 export UNCOMPRESS="/usr/bin/uncompress"
147 export UNIQU="/usr/bin/uniq"
148 export UNPACK="/usr/bin/unpack"
149 export UNSHARE="/usr/sbin/unshare"
150 export USERADD="/usr/sbin/useradd"
151 export USERDEL="/usr/sbin/userdel"
152 export USERMOD="/usr/sbin/usermod"
153 export WAIT="/usr/bin/wait"
154 export WC="/usr/bin/wc"
155 export ZDB="/usr/sbin/zdb"
156 export ZFS="/usr/sbin/zfs"
157 export ZHACK="/usr/sbin/zhack"
158 export ZLOGIN="/usr/sbin/zlogin"
159 export ZONEADM="/usr/sbin/zoneadm"
160 export ZONECFG="/usr/sbin/zonecfg"
161 export ZONENAME="/usr/bin/zonename"
162 export ZPOOL="/usr/sbin/zpool"
```

```

new/usr/src/test/zfs-tests/include/libtest.shlib 1
*****
54725 Fri Nov 22 15:19:16 2013
new/usr/src/test/zfs-tests/include/libtest.shlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
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13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 # Copyright (c) 2012 by Delphix. All rights reserved.
30 #
31 . ${STF_TOOLS}/contrib/include/logapi.shlib
32 #
33 ZFS=${ZFS:-/usr/sbin/zfs}
34 ZPOOL=${ZPOOL:-/usr/sbin/zpool}
35 #
36 # Determine whether a dataset is mounted
37 #
38 # $1 dataset name
39 # $2 filesystem type; optional - defaulted to zfs
40 #
41 # Return 0 if dataset is mounted; 1 if unmounted; 2 on error
42 #
43 function ismounted
44 {
45     typeset fstype=$2
46     [[ -z $fstype ]] && fstype=zfs
47     typeset out dir name ret
48 #
49     case $fstype in
50         zfs)
51             if [[ "$1" == "/"* ]] ; then
52                 for out in $($ZFS mount | $AWK '{print $2}'); do
53                     [[ $1 == $out ]] && return 0

```

```

new/usr/src/test/zfs-tests/include/libtest.shlib 2
54 done
55 else
56     for out in $($ZFS mount | $AWK '{print $1}'); do
57         [[ $1 == $out ]] && return 0
58     done
59 fi
60 ;;
61 ufs|nfs)
62     out=$(($DF -F $fstype $1 2>/dev/null)
63     ret=?
64     (($ret != 0)) && return $ret
65 #
66     dir=${out%%\ *}
67     dir=${dir%% *}
68     name=${out##*\ *}
69     name=${name%%\ *}
70     name=${name%% *}
71 #
72     [[ "$1" == "$dir" || "$1" == "$name" ]] && return 0
73 ;;
74 esac
75 #
76     return 1
77 }
unchanged_portion_omitted
2560 #
2561 # Check if Trusted Extensions are installed and enabled
2562 #
2563 function is_te_enabled
2564 {
2565     $SVCS -H -o state labeld 2>/dev/null | $GREP "enabled"
2566     if (($? != 0)); then
2567         return 1
2568     else
2569         return 0
2570     fi
2571 }
2572 #
2573 # Utility function to determine if a system has multiple cpus.
2574 function is_mp
2575 {
2576     (($psrinfo -p) > 1)
2577 }
2578 #
2579 # Run the given command as the user provided.
2580 function user_run
2581 {
2582     typeset user=$1
2583     shift
2584 #
2585     eval \${SU} \${user} -c "\${@}" > /tmp/out 2>/tmp/err
2586     return $?
2587 }
unchanged_portion_omitted

```


new/usr/src/test/zfs-tests/runfiles/delphix.run

1

```
*****
22388 Fri Nov 22 15:19:17 2013
new/usr/src/test/zfs-tests/runfiles/delphix.run
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
15 #
16 [DEFAULT]
17 pre = setup
18 quiet = False
19 pre_user = root
20 user = root
21 timeout = 600
22 post_user = root
23 post = cleanup
24 outputdir = /var/tmp/test_results
25 #
26 [/opt/zfs-tests/tests/functional/acl/cifs]
27 tests = ['cifs_attr_001_pos', 'cifs_attr_002_pos', 'cifs_attr_003_pos']
28 #
29 [/opt/zfs-tests/tests/functional/acl/nontrivial]
30 tests = ['zfs_acl_chmod_001_neg', 'zfs_acl_chmod_002_pos',
31 'zfs_acl_chmod_aclmode_001_pos', 'zfs_acl_chmod_compact_001_pos',
32 'zfs_acl_chmod_delete_001_pos', 'zfs_acl_chmod_inherit_001_pos',
33 'zfs_acl_chmod_inherit_002_neg', 'zfs_acl_chmod_inherit_002_pos',
34 'zfs_acl_chmod_inherit_003_pos', 'zfs_acl_chmod_inherit_004_pos',
35 'zfs_acl_chmod_owner_001_pos', 'zfs_acl_chmod_rwacl_001_pos',
36 'zfs_acl_chmod_rwx_001_pos', 'zfs_acl_chmod_rwx_002_pos',
37 'zfs_acl_chmod_rwx_003_pos', 'zfs_acl_chmod_rwx_004_pos',
38 'zfs_acl_chmod_xattr_001_pos', 'zfs_acl_chmod_xattr_002_pos',
39 'zfs_acl_cp_001_pos', 'zfs_acl_cp_002_pos', 'zfs_acl_cpio_001_pos',
40 'zfs_acl_cpio_002_pos', 'zfs_acl_find_001_pos', 'zfs_acl_ls_001_pos',
41 'zfs_acl_mv_001_pos', 'zfs_acl_tar_001_pos', 'zfs_acl_tar_002_pos',
42 'zfs_acl_aclmode_restricted_001_neg']
43 #
44 [/opt/zfs-tests/tests/functional/acl/trivial]
45 tests = ['zfs_acl_chmod_001_pos', 'zfs_acl_compress_001_pos',
46 'zfs_acl_cp_001_pos', 'zfs_acl_cp_002_neg', 'zfs_acl_cp_003_pos',
47 'zfs_acl_find_001_pos', 'zfs_acl_find_002_neg', 'zfs_acl_ls_001_pos',
48 'zfs_acl_ls_002_neg', 'zfs_acl_mv_001_pos', 'zfs_acl_pack_001_pos',
49 'zfs_acl_pax_001_pos', 'zfs_acl_pax_002_pos', 'zfs_acl_pax_003_pos',
50 'zfs_acl_pax_004_pos', 'zfs_acl_pax_005_pos', 'zfs_acl_pax_006_pos',
51 'zfs_acl_tar_001_pos', 'zfs_acl_tar_002_neg',
52 'zfs_acl_aclmode_restricted_001_pos']
53 #
54 [/opt/zfs-tests/tests/functional/atime]
```

new/usr/src/test/zfs-tests/runfiles/delphix.run

2

```
55 tests = ['atime_001_pos', 'atime_002_neg']
56 #
57 [/opt/zfs-tests/tests/functional/bootfs]
58 tests = ['bootfs_001_pos', 'bootfs_002_neg', 'bootfs_003_pos',
59 'bootfs_004_neg', 'bootfs_005_neg', 'bootfs_006_pos', 'bootfs_007_neg',
60 'bootfs_008_neg']
58 tests = ['bootfs_001_pos', 'bootfs_002_neg', 'bootfs_003_pos', 'bootfs_004_neg',
59 'bootfs_005_neg', 'bootfs_006_pos', 'bootfs_007_neg', 'bootfs_008_neg']
61 pre =
62 post =
63 #
64 [/opt/zfs-tests/tests/functional/cache]
65 tests = ['cache_001_pos', 'cache_002_pos', 'cache_003_pos', 'cache_004_neg',
66 'cache_005_neg', 'cache_006_pos', 'cache_007_neg', 'cache_008_neg',
67 'cache_009_pos', 'cache_010_neg', 'cache_011_pos']
68 #
69 [/opt/zfs-tests/tests/functional/cachefile]
70 tests = ['cachefile_001_pos', 'cachefile_002_pos', 'cachefile_003_pos',
71 'cachefile_004_pos']
72 pre =
73 post =
74 #
75 [/opt/zfs-tests/tests/functional/clean_mirror]
76 tests = ['clean_mirror_001_pos', 'clean_mirror_002_pos',
77 'clean_mirror_003_pos', 'clean_mirror_004_pos']
78 #
79 [/opt/zfs-tests/tests/functional/cli_root/zdb]
80 tests = ['zdb_001_neg']
81 pre =
82 post =
83 #
84 [/opt/zfs-tests/tests/functional/cli_root/zfs]
85 tests = ['zfs_001_neg', 'zfs_002_pos', 'zfs_003_neg']
86 #
87 [/opt/zfs-tests/tests/functional/cli_root/zfs_clone]
88 tests = ['zfs_clone_001_neg', 'zfs_clone_002_pos', 'zfs_clone_003_pos',
89 'zfs_clone_004_pos', 'zfs_clone_005_pos', 'zfs_clone_006_pos',
90 'zfs_clone_007_pos', 'zfs_clone_008_neg', 'zfs_clone_009_neg',
91 'zfs_clone_010_pos']
92 #
93 [/opt/zfs-tests/tests/functional/cli_root/zfs_copies]
94 tests = ['zfs_copies_001_pos', 'zfs_copies_002_pos', 'zfs_copies_003_pos',
95 'zfs_copies_004_neg', 'zfs_copies_005_neg', 'zfs_copies_006_pos']
96 #
97 [/opt/zfs-tests/tests/functional/cli_root/zfs_create]
98 tests = ['zfs_create_001_pos', 'zfs_create_002_pos', 'zfs_create_003_pos',
99 'zfs_create_004_pos', 'zfs_create_005_pos', 'zfs_create_006_pos',
100 'zfs_create_007_pos', 'zfs_create_008_neg', 'zfs_create_009_neg',
101 'zfs_create_010_neg', 'zfs_create_011_pos', 'zfs_create_012_pos',
102 'zfs_create_013_pos']
103 #
104 [/opt/zfs-tests/tests/functional/cli_root/zfs_destroy]
105 tests = ['zfs_destroy_001_pos', 'zfs_destroy_002_pos', 'zfs_destroy_003_pos',
106 'zfs_destroy_004_pos', 'zfs_destroy_005_neg', 'zfs_destroy_006_neg',
107 'zfs_destroy_007_neg', 'zfs_destroy_008_pos', 'zfs_destroy_009_pos',
108 'zfs_destroy_010_pos', 'zfs_destroy_011_pos', 'zfs_destroy_012_pos',
109 'zfs_destroy_013_neg', 'zfs_destroy_014_pos', 'zfs_destroy_015_pos',
110 'zfs_destroy_016_pos']
111 #
112 [/opt/zfs-tests/tests/functional/cli_root/zfs_get]
113 tests = ['zfs_get_001_pos', 'zfs_get_002_pos', 'zfs_get_003_pos',
114 'zfs_get_004_pos', 'zfs_get_005_neg', 'zfs_get_006_neg', 'zfs_get_007_neg',
115 'zfs_get_008_pos', 'zfs_get_009_pos', 'zfs_get_010_neg']
116 #
117 [/opt/zfs-tests/tests/functional/cli_root/zfs_inherit]
118 tests = ['zfs_inherit_001_neg', 'zfs_inherit_002_neg', 'zfs_inherit_003_pos']
```

```

120 [/opt/zfs-tests/tests/functional/cli_root/zfs_mount]
121 tests = ['zfs_mount_001_pos', 'zfs_mount_002_pos', 'zfs_mount_003_pos',
122 'zfs_mount_004_pos', 'zfs_mount_005_pos', 'zfs_mount_006_pos',
123 'zfs_mount_007_pos', 'zfs_mount_008_pos', 'zfs_mount_009_neg',
124 'zfs_mount_010_neg', 'zfs_mount_011_neg', 'zfs_mount_all_001_pos']

126 [/opt/zfs-tests/tests/functional/cli_root/zfs_promote]
127 tests = ['zfs_promote_001_pos', 'zfs_promote_002_pos', 'zfs_promote_003_pos',
128 'zfs_promote_004_pos', 'zfs_promote_005_pos', 'zfs_promote_006_neg',
129 'zfs_promote_007_neg', 'zfs_promote_008_pos']

131 [/opt/zfs-tests/tests/functional/cli_root/zfs_property]
132 tests = ['zfs_wrtten_property_001_pos']

134 [/opt/zfs-tests/tests/functional/cli_root/zfs_receive]
135 tests = ['zfs_receive_001_pos', 'zfs_receive_002_pos', 'zfs_receive_003_pos',
136 'zfs_receive_005_neg', 'zfs_receive_006_pos',
137 'zfs_receive_004_neg', 'zfs_receive_005_neg', 'zfs_receive_006_pos',
138 'zfs_receive_007_neg', 'zfs_receive_008_pos', 'zfs_receive_009_neg']

139 [/opt/zfs-tests/tests/functional/cli_root/zfs_rename]
140 tests = ['zfs_rename_001_pos', 'zfs_rename_002_pos', 'zfs_rename_003_pos',
141 'zfs_rename_004_neg', 'zfs_rename_005_neg', 'zfs_rename_006_pos',
142 'zfs_rename_007_pos', 'zfs_rename_008_pos', 'zfs_rename_009_neg',
143 'zfs_rename_010_neg', 'zfs_rename_011_pos', 'zfs_rename_012_neg',
144 'zfs_rename_013_pos']

146 [/opt/zfs-tests/tests/functional/cli_root/zfs_reservation]
147 tests = ['zfs_reservation_001_pos', 'zfs_reservation_002_pos']

149 [/opt/zfs-tests/tests/functional/cli_root/zfs_rollback]
150 tests = ['zfs_rollback_001_pos', 'zfs_rollback_002_pos',
151 'zfs_rollback_003_neg', 'zfs_rollback_004_neg']
152 tests = ['zfs_rollback_001_pos', 'zfs_rollback_002_pos', 'zfs_rollback_003_neg',
153 'zfs_rollback_004_neg']

153 [/opt/zfs-tests/tests/functional/cli_root/zfs_send]
154 tests = ['zfs_send_001_pos', 'zfs_send_002_pos', 'zfs_send_003_pos',
155 'zfs_send_004_neg', 'zfs_send_005_pos', 'zfs_send_006_pos']

157 [/opt/zfs-tests/tests/functional/cli_root/zfs_set]
158 tests = ['cache_001_pos', 'cache_002_neg', 'canmount_001_pos',
159 'canmount_002_pos', 'canmount_003_pos', 'canmount_004_pos',
160 'checksum_001_pos', 'compression_001_pos', 'mountpoint_001_pos',
161 'mountpoint_002_pos', 'mountpoint_003_pos', 'onoffs_001_pos',
162 'property_alias_001_pos', 'readonly_001_pos', 'reservation_001_neg',
163 'ro_props_001_pos', 'share_mount_001_neg', 'snapdir_001_pos',
164 'user_property_001_pos', 'user_property_002_pos', 'user_property_003_neg',
165 'user_property_004_pos', 'version_001_neg', 'zfs_set_001_neg',
166 'zfs_set_002_neg', 'zfs_set_003_neg']

168 [/opt/zfs-tests/tests/functional/cli_root/zfs_share]
169 tests = ['zfs_share_001_pos', 'zfs_share_002_pos', 'zfs_share_003_pos',
170 'zfs_share_004_pos', 'zfs_share_005_pos', 'zfs_share_006_pos',
171 'zfs_share_007_neg', 'zfs_share_008_neg', 'zfs_share_009_neg',
172 'zfs_share_010_neg', 'zfs_share_011_pos']

174 [/opt/zfs-tests/tests/functional/cli_root/zfs_snapshot]
175 tests = ['zfs_snapshot_001_neg', 'zfs_snapshot_002_neg',
176 'zfs_snapshot_003_neg', 'zfs_snapshot_004_neg', 'zfs_snapshot_005_neg',
177 'zfs_snapshot_006_pos', 'zfs_snapshot_007_neg', 'zfs_snapshot_008_neg',
178 'zfs_snapshot_009_pos']
179 tests = ['zfs_snapshot_001_neg', 'zfs_snapshot_002_neg', 'zfs_snapshot_003_neg',
180 'zfs_snapshot_004_neg', 'zfs_snapshot_005_neg', 'zfs_snapshot_006_pos',
181 'zfs_snapshot_007_neg', 'zfs_snapshot_008_neg', 'zfs_snapshot_009_pos']

```

```

180 [/opt/zfs-tests/tests/functional/cli_root/zfs_unmount]
181 tests = ['zfs_unmount_001_pos', 'zfs_unmount_002_pos', 'zfs_unmount_003_pos',
182 'zfs_unmount_004_pos', 'zfs_unmount_005_pos', 'zfs_unmount_006_pos',
183 'zfs_unmount_007_neg', 'zfs_unmount_008_neg', 'zfs_unmount_009_pos',
184 'zfs_unmount_all_001_pos']

186 [/opt/zfs-tests/tests/functional/cli_root/zfs_unshare]
187 tests = ['zfs_unshare_001_pos', 'zfs_unshare_002_pos', 'zfs_unshare_003_pos',
188 'zfs_unshare_004_neg', 'zfs_unshare_005_neg']

190 [/opt/zfs-tests/tests/functional/cli_root/zfs_upgrade]
191 tests = ['zfs_upgrade_001_pos', 'zfs_upgrade_002_pos', 'zfs_upgrade_003_pos',
192 'zfs_upgrade_004_pos', 'zfs_upgrade_005_pos', 'zfs_upgrade_006_neg',
193 'zfs_upgrade_007_neg']

195 [/opt/zfs-tests/tests/functional/cli_root/zpool]
196 tests = ['zpool_001_neg', 'zpool_002_pos', 'zpool_003_pos']

198 [/opt/zfs-tests/tests/functional/cli_root/zpool_add]
199 tests = ['zpool_add_001_pos', 'zpool_add_002_pos', 'zpool_add_003_pos',
200 'zpool_add_004_pos', 'zpool_add_005_pos', 'zpool_add_006_pos',
201 'zpool_add_007_neg', 'zpool_add_008_neg', 'zpool_add_009_neg']

203 [/opt/zfs-tests/tests/functional/cli_root/zpool_attach]
204 tests = ['zpool_attach_001_neg']

206 [/opt/zfs-tests/tests/functional/cli_root/zpool_clear]
207 tests = ['zpool_clear_001_pos', 'zpool_clear_002_neg', 'zpool_clear_003_neg']

209 [/opt/zfs-tests/tests/functional/cli_root/zpool_create]
210 tests = ['zpool_create_001_pos', 'zpool_create_002_pos',
211 'zpool_create_003_pos', 'zpool_create_004_pos', 'zpool_create_005_pos',
212 'zpool_create_006_pos', 'zpool_create_007_neg', 'zpool_create_008_pos',
213 'zpool_create_009_neg', 'zpool_create_010_neg', 'zpool_create_011_neg',
214 'zpool_create_012_neg', 'zpool_create_013_neg', 'zpool_create_014_neg',
215 'zpool_create_015_neg', 'zpool_create_016_pos', 'zpool_create_017_neg',
216 'zpool_create_018_pos', 'zpool_create_019_pos', 'zpool_create_020_pos',
217 'zpool_create_021_pos', 'zpool_create_022_pos', 'zpool_create_023_neg',
218 tests = ['zpool_create_001_pos', 'zpool_create_002_pos', 'zpool_create_003_pos',
219 'zpool_create_004_pos', 'zpool_create_005_pos', 'zpool_create_006_pos',
220 'zpool_create_007_neg', 'zpool_create_008_pos', 'zpool_create_009_neg',
221 'zpool_create_010_neg', 'zpool_create_011_neg', 'zpool_create_012_neg',
222 'zpool_create_013_neg', 'zpool_create_014_neg', 'zpool_create_015_neg',
223 'zpool_create_016_pos', 'zpool_create_017_neg', 'zpool_create_018_pos',
224 'zpool_create_019_pos', 'zpool_create_020_pos', 'zpool_create_021_pos',
225 'zpool_create_022_pos', 'zpool_create_023_neg',
226 'zpool_create_features_001_pos', 'zpool_create_features_002_pos',
227 'zpool_create_features_003_pos', 'zpool_create_features_004_neg']

221 [/opt/zfs-tests/tests/functional/cli_root/zpool_destroy]
222 tests = ['zpool_destroy_001_pos', 'zpool_destroy_002_pos',
223 'zpool_destroy_003_neg']
224 pre =
225 post =

227 [/opt/zfs-tests/tests/functional/cli_root/zpool_detach]
228 tests = ['zpool_detach_001_neg']

230 [/opt/zfs-tests/tests/functional/cli_root/zpool_expand]
231 tests = ['zpool_expand_001_pos', 'zpool_expand_002_pos',
232 'zpool_expand_003_neg']
233 tests = ['zpool_expand_001_pos', 'zpool_expand_002_pos', 'zpool_expand_003_neg']

234 [/opt/zfs-tests/tests/functional/cli_root/zpool_export]
235 tests = ['zpool_export_001_pos', 'zpool_export_002_pos',

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236 'zpool_export_003_neg', 'zpool_export_004_pos']
217 tests = ['zpool_export_001_pos', 'zpool_export_002_pos', 'zpool_export_003_neg',
218 'zpool_export_004_pos']

238 [/opt/zfs-tests/tests/functional/cli_root/zpool_get]
239 tests = ['zpool_get_001_pos', 'zpool_get_002_pos', 'zpool_get_003_pos',
240 'zpool_get_004_neg']

242 [/opt/zfs-tests/tests/functional/cli_root/zpool_history]
243 tests = ['zpool_history_001_neg', 'zpool_history_002_pos']

245 [/opt/zfs-tests/tests/functional/cli_root/zpool_import]
246 tests = ['zpool_import_001_pos', 'zpool_import_002_pos',
247 'zpool_import_003_pos', 'zpool_import_004_pos', 'zpool_import_005_pos',
248 'zpool_import_006_pos', 'zpool_import_007_pos', 'zpool_import_008_pos',
249 'zpool_import_009_neg', 'zpool_import_010_pos', 'zpool_import_011_neg',
250 'zpool_import_012_pos', 'zpool_import_013_neg', 'zpool_import_all_001_pos',
228 tests = ['zpool_import_001_pos', 'zpool_import_002_pos', 'zpool_import_003_pos',
229 'zpool_import_004_pos', 'zpool_import_005_pos', 'zpool_import_006_pos',
230 'zpool_import_007_pos', 'zpool_import_008_pos', 'zpool_import_009_neg',
231 'zpool_import_010_pos', 'zpool_import_011_neg', 'zpool_import_012_pos',
232 'zpool_import_013_neg', 'zpool_import_all_001_pos',
251 'zpool_import_features_001_pos', 'zpool_import_features_002_neg',
252 'zpool_import_features_003_pos', 'zpool_import_missing_001_pos',
253 'zpool_import_missing_002_pos', 'zpool_import_missing_003_pos',
254 'zpool_import_rename_001_pos']

256 [/opt/zfs-tests/tests/functional/cli_root/zpool_offline]
257 tests = ['zpool_offline_001_pos', 'zpool_offline_002_neg']

259 [/opt/zfs-tests/tests/functional/cli_root/zpool_online]
260 tests = ['zpool_online_001_pos', 'zpool_online_002_neg']

262 [/opt/zfs-tests/tests/functional/cli_root/zpool_remove]
263 tests = ['zpool_remove_001_neg', 'zpool_remove_002_pos',
264 'zpool_remove_003_pos']
245 tests = ['zpool_remove_001_neg', 'zpool_remove_002_pos', 'zpool_remove_003_pos']

266 [/opt/zfs-tests/tests/functional/cli_root/zpool_replace]
267 tests = ['zpool_replace_001_neg']

269 [/opt/zfs-tests/tests/functional/cli_root/zpool_scrub]
270 tests = ['zpool_scrub_001_neg', 'zpool_scrub_002_pos', 'zpool_scrub_003_pos',
271 'zpool_scrub_004_pos', 'zpool_scrub_005_pos']

273 [/opt/zfs-tests/tests/functional/cli_root/zpool_set]
274 tests = ['zpool_set_001_pos', 'zpool_set_002_neg', 'zpool_set_003_neg']
275 pre =
276 post =

278 [/opt/zfs-tests/tests/functional/cli_root/zpool_status]
279 tests = ['zpool_status_001_pos', 'zpool_status_002_pos']

281 [/opt/zfs-tests/tests/functional/cli_root/zpool_upgrade]
282 tests = ['zpool_upgrade_001_pos', 'zpool_upgrade_002_pos',
283 'zpool_upgrade_003_pos', 'zpool_upgrade_004_pos', 'zpool_upgrade_005_neg',
284 'zpool_upgrade_006_neg', 'zpool_upgrade_007_pos', 'zpool_upgrade_008_pos',
285 'zpool_upgrade_009_neg']

287 [/opt/zfs-tests/tests/functional/cli_user/misc]
288 tests = ['zdb_001_neg', 'zfs_001_neg', 'zfs_allow_001_neg',
289 'zfs_clone_001_neg', 'zfs_create_001_neg', 'zfs_destroy_001_neg',
290 'zfs_get_001_neg', 'zfs_inherit_001_neg', 'zfs_mount_001_neg',
291 'zfs_promote_001_neg', 'zfs_receive_001_neg', 'zfs_rename_001_neg',
292 'zfs_rollback_001_neg', 'zfs_send_001_neg', 'zfs_set_001_neg',
293 'zfs_share_001_neg', 'zfs_snapshot_001_neg', 'zfs_unallow_001_neg',

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294 'zfs_unmount_001_neg', 'zfs_unshare_001_neg', 'zfs_upgrade_001_neg',
295 'zpool_001_neg', 'zpool_add_001_neg', 'zpool_attach_001_neg',
296 'zpool_clear_001_neg', 'zpool_create_001_neg', 'zpool_destroy_001_neg',
297 'zpool_detach_001_neg', 'zpool_export_001_neg', 'zpool_get_001_neg',
298 'zpool_history_001_neg', 'zpool_import_001_neg', 'zpool_import_002_neg',
299 'zpool_offline_001_neg', 'zpool_online_001_neg', 'zpool_remove_001_neg',
300 'zpool_replace_001_neg', 'zpool_scrub_001_neg', 'zpool_set_001_neg',
301 'zpool_status_001_neg', 'zpool_upgrade_001_neg']
302 user =
268 [/opt/zfs-tests/tests/functional/truncate]
269 tests = ['truncate_001_pos', 'truncate_002_pos']

304 [/opt/zfs-tests/tests/functional/cli_user/zfs_list]
305 tests = ['zfs_list_001_pos', 'zfs_list_002_pos', 'zfs_list_003_pos',
306 'zfs_list_004_neg', 'zfs_list_007_pos', 'zfs_list_008_neg']
307 user =

309 [/opt/zfs-tests/tests/functional/cli_user/zpool_iostat]
310 tests = ['zpool_iostat_001_neg', 'zpool_iostat_002_pos',
311 'zpool_iostat_003_neg']
312 user =

314 [/opt/zfs-tests/tests/functional/cli_user/zpool_list]
315 tests = ['zpool_list_001_pos', 'zpool_list_002_neg']
316 user =

318 [/opt/zfs-tests/tests/functional/compression]
319 tests = ['compress_001_pos', 'compress_002_pos', 'compress_003_pos',
320 'compress_004_pos']

322 [/opt/zfs-tests/tests/functional/ctime]
323 tests = ['ctime_001_pos']

325 [/opt/zfs-tests/tests/functional/delegate]
326 tests = ['zfs_allow_001_pos', 'zfs_allow_002_pos',
327 'zfs_allow_004_pos', 'zfs_allow_005_pos', 'zfs_allow_006_pos',
328 'zfs_allow_007_pos', 'zfs_allow_008_pos', 'zfs_allow_009_neg',
329 'zfs_allow_010_pos', 'zfs_allow_011_neg', 'zfs_allow_012_neg',
330 'zfs_unallow_001_pos', 'zfs_unallow_002_pos', 'zfs_unallow_003_pos',
331 'zfs_unallow_004_pos', 'zfs_unallow_005_pos', 'zfs_unallow_006_pos',
332 'zfs_unallow_007_neg', 'zfs_unallow_008_neg']

334 [/opt/zfs-tests/tests/functional/devices]
335 tests = ['devices_001_pos', 'devices_002_neg', 'devices_003_pos']

337 [/opt/zfs-tests/tests/functional/exec]
338 tests = ['exec_001_pos', 'exec_002_neg']

340 [/opt/zfs-tests/tests/functional/features/async_destroy]
341 tests = ['async_destroy_001_pos']

343 [/opt/zfs-tests/tests/functional/grow_pool]
344 tests = ['grow_pool_001_pos']

346 [/opt/zfs-tests/tests/functional/grow_replicas]
347 tests = ['grow_replicas_001_pos']

349 [/opt/zfs-tests/tests/functional/history]
350 tests = ['history_001_pos', 'history_002_pos', 'history_003_pos',
351 'history_004_pos', 'history_005_neg', 'history_006_neg', 'history_007_pos',
352 'history_008_pos', 'history_009_pos', 'history_010_pos']

354 [/opt/zfs-tests/tests/functional/inheritance]
355 tests = ['inherit_001_pos']
356 pre =

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358 [/opt/zfs-tests/tests/functional/interop]
359 tests = ['interop_001_pos']

361 [/opt/zfs-tests/tests/functional/inuse]
362 tests = ['inuse_001_pos', 'inuse_002_pos', 'inuse_003_pos', 'inuse_004_pos',
363         'inuse_005_pos', 'inuse_006_pos', 'inuse_007_pos', 'inuse_008_pos',
364         'inuse_009_pos']
365 post =

367 [/opt/zfs-tests/tests/functional/large_files]
368 tests = ['large_files_001_pos']

370 [/opt/zfs-tests/tests/functional/largest_pool]
371 tests = ['largest_pool_001_pos']
372 pre =
373 post =

375 [/opt/zfs-tests/tests/functional/link_count]
376 tests = ['link_count_001']

378 [/opt/zfs-tests/tests/functional/mdb]
379 tests = ['mdb_001_pos']

381 [/opt/zfs-tests/tests/functional/migration]
382 tests = ['migration_001_pos', 'migration_002_pos', 'migration_003_pos',
383         'migration_004_pos', 'migration_005_pos', 'migration_006_pos',
384         'migration_007_pos', 'migration_008_pos', 'migration_009_pos',
385         'migration_010_pos', 'migration_011_pos', 'migration_012_pos']

387 [/opt/zfs-tests/tests/functional/mmap]
388 tests = ['mmap_read_001_pos', 'mmap_write_001_pos']

390 [/opt/zfs-tests/tests/functional/mount]
391 tests = ['umount_001', 'umountall_001']

393 [/opt/zfs-tests/tests/functional/mv_files]
394 tests = ['mv_files_001_pos', 'mv_files_002_pos']

396 [/opt/zfs-tests/tests/functional/nesteddfs]
397 tests = ['nesteddfs_001_pos']

399 [/opt/zfs-tests/tests/functional/no_space]
400 tests = ['enospc_001_pos']

402 [/opt/zfs-tests/tests/functional/nopwrite]
403 tests = ['nopwrite_copies', 'nopwrite_mtime', 'nopwrite_negative',
404         'nopwrite_promoted_clone', 'nopwrite_recsize', 'nopwrite_sync',
405         'nopwrite_varying_compression', 'nopwrite_volume']

407 [/opt/zfs-tests/tests/functional/online_offline]
408 tests = ['online_offline_001_pos', 'online_offline_002_neg',
409         'online_offline_003_neg']

411 [/opt/zfs-tests/tests/functional/pool_names]
412 tests = ['pool_names_001_pos', 'pool_names_002_neg']
413 pre =
414 post =

416 [/opt/zfs-tests/tests/functional/poolversion]
417 tests = ['poolversion_001_pos', 'poolversion_002_pos']

419 [/opt/zfs-tests/tests/functional/privilege]
420 tests = ['privilege_001_pos', 'privilege_002_pos']

422 [/opt/zfs-tests/tests/functional/quota]
423 tests = ['quota_001_pos', 'quota_002_pos', 'quota_003_pos', 'quota_004_pos',

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424         'quota_005_pos', 'quota_006_neg']

426 [/opt/zfs-tests/tests/functional/redundancy]
427 tests = ['redundancy_001_pos', 'redundancy_002_pos', 'redundancy_003_pos']

429 [/opt/zfs-tests/tests/functional/refquota]
430 tests = ['refquota_001_pos', 'refquota_002_pos', 'refquota_003_pos',
431         'refquota_004_pos', 'refquota_005_pos', 'refquota_006_neg']

433 [/opt/zfs-tests/tests/functional/refreserv]
434 tests = ['refreserv_001_pos', 'refreserv_002_pos', 'refreserv_003_pos',
435         'refreserv_004_pos', 'refreserv_005_pos']

437 [/opt/zfs-tests/tests/functional/rename_dirs]
438 tests = ['rename_dirs_001_pos']

440 [/opt/zfs-tests/tests/functional/replacement]
441 tests = ['replacement_001_pos', 'replacement_002_pos']

443 [/opt/zfs-tests/tests/functional/reservation]
444 tests = ['reservation_001_pos', 'reservation_002_pos', 'reservation_003_pos',
445         'reservation_004_pos', 'reservation_005_pos', 'reservation_006_pos',
446         'reservation_007_pos', 'reservation_008_pos', 'reservation_009_pos',
447         'reservation_010_pos', 'reservation_011_pos', 'reservation_012_pos',
448         'reservation_013_pos', 'reservation_014_pos', 'reservation_015_pos',
449         'reservation_016_pos', 'reservation_017_pos', 'reservation_018_pos']

451 [/opt/zfs-tests/tests/functional/rootpool]
452 tests = ['rootpool_002_neg', 'rootpool_003_neg', 'rootpool_007_neg']

454 [/opt/zfs-tests/tests/functional/rsend]
455 tests = ['rsend_001_pos', 'rsend_002_pos', 'rsend_003_pos', 'rsend_004_pos',
456         'rsend_005_pos', 'rsend_006_pos', 'rsend_007_pos', 'rsend_008_pos',
457         'rsend_009_pos', 'rsend_010_pos', 'rsend_011_pos', 'rsend_012_pos',
458         'rsend_013_pos']

460 [/opt/zfs-tests/tests/functional/scrub_mirror]
461 tests = ['scrub_mirror_001_pos', 'scrub_mirror_002_pos',
462         'scrub_mirror_003_pos', 'scrub_mirror_004_pos']

464 [/opt/zfs-tests/tests/functional/slog]
465 tests = ['slog_001_pos', 'slog_002_pos', 'slog_003_pos', 'slog_004_pos',
466         'slog_005_pos', 'slog_006_pos', 'slog_007_pos', 'slog_008_neg',
467         'slog_009_neg', 'slog_010_neg', 'slog_011_neg', 'slog_012_neg',
468         'slog_013_pos', 'slog_014_pos']

470 [/opt/zfs-tests/tests/functional/snapshot]
471 tests = ['clone_001_pos', 'rollback_001_pos', 'rollback_002_pos',
472         'rollback_003_pos', 'snapshot_001_pos', 'snapshot_002_pos',
473         'snapshot_003_pos', 'snapshot_004_pos', 'snapshot_005_pos',
474         'snapshot_006_pos', 'snapshot_007_pos', 'snapshot_008_pos',
475         'snapshot_009_pos', 'snapshot_010_pos', 'snapshot_011_pos',
476         'snapshot_012_pos', 'snapshot_013_pos', 'snapshot_014_pos',
477         'snapshot_015_pos', 'snapshot_016_pos', 'snapshot_017_pos']

479 [/opt/zfs-tests/tests/functional/snapused]
480 tests = ['snapused_001_pos', 'snapused_002_pos', 'snapused_003_pos',
481         'snapused_004_pos', 'snapused_005_pos']

483 [/opt/zfs-tests/tests/functional/sparse]
484 tests = ['sparse_001_pos']

486 [/opt/zfs-tests/tests/functional/threadsappend]
487 tests = ['threadsappend_001_pos']

489 [/opt/zfs-tests/tests/functional/truncate]

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490 tests = ['truncate_001_pos', 'truncate_002_pos']

492 [/opt/zfs-tests/tests/functional/userquota]
493 tests = ['groupspace_001_pos', 'groupspace_002_pos', 'userquota_001_pos',
494 'userquota_002_pos', 'userquota_003_pos', 'userquota_004_pos',
495 'userquota_005_neg', 'userquota_006_pos', 'userquota_007_pos',
496 'userquota_008_pos', 'userquota_009_pos', 'userquota_010_pos',
497 'userquota_011_pos', 'userquota_012_neg', 'userspace_001_pos',
498 'userspace_002_pos']

500 [/opt/zfs-tests/tests/functional/utils_test]
501 tests = ['utils_test_001_pos', 'utils_test_002_pos', 'utils_test_003_pos',
502 'utils_test_004_pos', 'utils_test_005_pos', 'utils_test_006_pos',
503 'utils_test_007_pos', 'utils_test_008_pos', 'utils_test_009_pos']

505 [/opt/zfs-tests/tests/functional/write_dirs]
506 tests = ['write_dirs_001_pos', 'write_dirs_002_pos']

508 [/opt/zfs-tests/tests/functional/xattr]
509 tests = ['xattr_001_pos', 'xattr_002_neg', 'xattr_003_neg', 'xattr_004_pos',
510 'xattr_005_pos', 'xattr_006_pos', 'xattr_007_neg', 'xattr_008_pos',
511 'xattr_009_neg', 'xattr_010_neg', 'xattr_011_pos', 'xattr_012_pos',
512 'xattr_013_pos']

514 [/opt/zfs-tests/tests/functional/zvol/zvol_ENOSPC]
515 tests = ['zvol_ENOSPC_001_pos']

517 [/opt/zfs-tests/tests/functional/zvol/zvol_cli]
518 tests = ['zvol_cli_001_pos', 'zvol_cli_002_pos', 'zvol_cli_003_neg']

520 [/opt/zfs-tests/tests/functional/zvol/zvol_misc]
521 tests = ['zvol_misc_001_neg', 'zvol_misc_002_pos', 'zvol_misc_003_neg',
522 'zvol_misc_004_pos', 'zvol_misc_005_neg', 'zvol_misc_006_pos']

524 [/opt/zfs-tests/tests/functional/zvol/zvol_swap]
525 tests = ['zvol_swap_001_pos', 'zvol_swap_002_pos', 'zvol_swap_003_pos',
526 'zvol_swap_004_pos', 'zvol_swap_005_pos', 'zvol_swap_006_pos']
```

new/usr/src/test/zfs-tests/runfiles/openindiana.run

1

```
*****
22388 Fri Nov 22 15:19:18 2013
new/usr/src/test/zfs-tests/runfiles/openindiana.run
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
15 #
16 [DEFAULT]
17 pre = setup
18 quiet = False
19 pre_user = root
20 user = root
21 timeout = 600
22 post_user = root
23 post = cleanup
24 outputdir = /var/tmp/test_results
25 #
26 [/opt/zfs-tests/tests/functional/acl/cifs]
27 tests = ['cifs_attr_001_pos', 'cifs_attr_002_pos', 'cifs_attr_003_pos']
28 #
29 [/opt/zfs-tests/tests/functional/acl/nontrivial]
30 tests = ['zfs_acl_chmod_001_neg', 'zfs_acl_chmod_002_pos',
31 'zfs_acl_chmod_aclmode_001_pos', 'zfs_acl_chmod_compact_001_pos',
32 'zfs_acl_chmod_delete_001_pos', 'zfs_acl_chmod_inherit_001_pos',
33 'zfs_acl_chmod_inherit_002_neg', 'zfs_acl_chmod_inherit_002_pos',
34 'zfs_acl_chmod_inherit_003_pos', 'zfs_acl_chmod_inherit_004_pos',
35 'zfs_acl_chmod_owner_001_pos', 'zfs_acl_chmod_rwacl_001_pos',
36 'zfs_acl_chmod_rwx_001_pos', 'zfs_acl_chmod_rwx_002_pos',
37 'zfs_acl_chmod_rwx_003_pos', 'zfs_acl_chmod_rwx_004_pos',
38 'zfs_acl_chmod_xattr_001_pos', 'zfs_acl_chmod_xattr_002_pos',
39 'zfs_acl_cp_001_pos', 'zfs_acl_cp_002_pos', 'zfs_acl_cpio_001_pos',
40 'zfs_acl_cpio_002_pos', 'zfs_acl_find_001_pos', 'zfs_acl_ls_001_pos',
41 'zfs_acl_mv_001_pos', 'zfs_acl_tar_001_pos', 'zfs_acl_tar_002_pos',
42 'zfs_acl_aclmode_restricted_001_neg']
43 #
44 [/opt/zfs-tests/tests/functional/acl/trivial]
45 tests = ['zfs_acl_chmod_001_pos', 'zfs_acl_compress_001_pos',
46 'zfs_acl_cp_001_pos', 'zfs_acl_cp_002_neg', 'zfs_acl_cp_003_pos',
47 'zfs_acl_find_001_pos', 'zfs_acl_find_002_neg', 'zfs_acl_ls_001_pos',
48 'zfs_acl_ls_002_neg', 'zfs_acl_mv_001_pos', 'zfs_acl_pack_001_pos',
49 'zfs_acl_pax_001_pos', 'zfs_acl_pax_002_pos', 'zfs_acl_pax_003_pos',
50 'zfs_acl_pax_004_pos', 'zfs_acl_pax_005_pos', 'zfs_acl_pax_006_pos',
51 'zfs_acl_tar_001_pos', 'zfs_acl_tar_002_neg',
52 'zfs_acl_aclmode_restricted_001_pos']
53 #
54 [/opt/zfs-tests/tests/functional/atime]
```

new/usr/src/test/zfs-tests/runfiles/openindiana.run

2

```
55 tests = ['atime_001_pos', 'atime_002_neg']
56 #
57 [/opt/zfs-tests/tests/functional/bootfs]
58 tests = ['bootfs_001_pos', 'bootfs_002_neg', 'bootfs_003_pos',
59 'bootfs_004_neg', 'bootfs_005_neg', 'bootfs_006_pos', 'bootfs_007_neg',
60 'bootfs_008_neg']
58 tests = ['bootfs_001_pos', 'bootfs_002_neg', 'bootfs_003_pos', 'bootfs_004_neg',
59 'bootfs_005_neg', 'bootfs_006_pos', 'bootfs_007_neg', 'bootfs_008_neg']
61 pre =
62 post =
63 #
64 [/opt/zfs-tests/tests/functional/cache]
65 tests = ['cache_001_pos', 'cache_002_pos', 'cache_003_pos', 'cache_004_neg',
66 'cache_005_neg', 'cache_006_pos', 'cache_007_neg', 'cache_008_neg',
67 'cache_009_pos', 'cache_010_neg', 'cache_011_pos']
68 #
69 [/opt/zfs-tests/tests/functional/cachefile]
70 tests = ['cachefile_001_pos', 'cachefile_002_pos', 'cachefile_003_pos',
71 'cachefile_004_pos']
72 pre =
73 post =
74 #
75 [/opt/zfs-tests/tests/functional/clean_mirror]
76 tests = ['clean_mirror_001_pos', 'clean_mirror_002_pos',
77 'clean_mirror_003_pos', 'clean_mirror_004_pos']
78 #
79 [/opt/zfs-tests/tests/functional/cli_root/zdb]
80 tests = ['zdb_001_neg']
81 pre =
82 post =
83 #
84 [/opt/zfs-tests/tests/functional/cli_root/zfs]
85 tests = ['zfs_001_neg', 'zfs_002_pos', 'zfs_003_neg']
86 #
87 [/opt/zfs-tests/tests/functional/cli_root/zfs_clone]
88 tests = ['zfs_clone_001_neg', 'zfs_clone_002_pos', 'zfs_clone_003_pos',
89 'zfs_clone_004_pos', 'zfs_clone_005_pos', 'zfs_clone_006_pos',
90 'zfs_clone_007_pos', 'zfs_clone_008_neg', 'zfs_clone_009_neg',
91 'zfs_clone_010_pos']
92 #
93 [/opt/zfs-tests/tests/functional/cli_root/zfs_copies]
94 tests = ['zfs_copies_001_pos', 'zfs_copies_002_pos', 'zfs_copies_003_pos',
95 'zfs_copies_004_neg', 'zfs_copies_005_neg', 'zfs_copies_006_pos']
96 #
97 [/opt/zfs-tests/tests/functional/cli_root/zfs_create]
98 tests = ['zfs_create_001_pos', 'zfs_create_002_pos', 'zfs_create_003_pos',
99 'zfs_create_004_pos', 'zfs_create_005_pos', 'zfs_create_006_pos',
100 'zfs_create_007_pos', 'zfs_create_008_neg', 'zfs_create_009_neg',
101 'zfs_create_010_neg', 'zfs_create_011_pos', 'zfs_create_012_pos',
102 'zfs_create_013_pos']
103 #
104 [/opt/zfs-tests/tests/functional/cli_root/zfs_destroy]
105 tests = ['zfs_destroy_001_pos', 'zfs_destroy_002_pos', 'zfs_destroy_003_pos',
106 'zfs_destroy_004_pos', 'zfs_destroy_005_neg', 'zfs_destroy_006_neg',
107 'zfs_destroy_007_neg', 'zfs_destroy_008_pos', 'zfs_destroy_009_pos',
108 'zfs_destroy_010_pos', 'zfs_destroy_011_pos', 'zfs_destroy_012_pos',
109 'zfs_destroy_013_neg', 'zfs_destroy_014_pos', 'zfs_destroy_015_pos',
110 'zfs_destroy_016_pos']
111 #
112 [/opt/zfs-tests/tests/functional/cli_root/zfs_get]
113 tests = ['zfs_get_001_pos', 'zfs_get_002_pos', 'zfs_get_003_pos',
114 'zfs_get_004_pos', 'zfs_get_005_neg', 'zfs_get_006_neg', 'zfs_get_007_neg',
115 'zfs_get_008_pos', 'zfs_get_009_pos', 'zfs_get_010_neg']
116 #
117 [/opt/zfs-tests/tests/functional/cli_root/zfs_inherit]
118 tests = ['zfs_inherit_001_neg', 'zfs_inherit_002_neg', 'zfs_inherit_003_pos']
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120 [/opt/zfs-tests/tests/functional/cli_root/zfs_mount]
121 tests = ['zfs_mount_001_pos', 'zfs_mount_002_pos', 'zfs_mount_003_pos',
122 'zfs_mount_004_pos', 'zfs_mount_005_pos', 'zfs_mount_006_pos',
123 'zfs_mount_007_pos', 'zfs_mount_008_pos', 'zfs_mount_009_neg',
124 'zfs_mount_010_neg', 'zfs_mount_011_neg', 'zfs_mount_all_001_pos']

126 [/opt/zfs-tests/tests/functional/cli_root/zfs_promote]
127 tests = ['zfs_promote_001_pos', 'zfs_promote_002_pos', 'zfs_promote_003_pos',
128 'zfs_promote_004_pos', 'zfs_promote_005_pos', 'zfs_promote_006_neg',
129 'zfs_promote_007_neg', 'zfs_promote_008_pos']

131 [/opt/zfs-tests/tests/functional/cli_root/zfs_property]
132 tests = ['zfs_written_property_001_pos']

134 [/opt/zfs-tests/tests/functional/cli_root/zfs_receive]
135 tests = ['zfs_receive_001_pos', 'zfs_receive_002_pos', 'zfs_receive_003_pos',
136 'zfs_receive_005_neg', 'zfs_receive_006_pos',
137 'zfs_receive_004_neg', 'zfs_receive_005_neg', 'zfs_receive_006_pos',
138 'zfs_receive_007_neg', 'zfs_receive_008_pos', 'zfs_receive_009_neg']

139 [/opt/zfs-tests/tests/functional/cli_root/zfs_rename]
140 tests = ['zfs_rename_001_pos', 'zfs_rename_002_pos', 'zfs_rename_003_pos',
141 'zfs_rename_004_neg', 'zfs_rename_005_neg', 'zfs_rename_006_pos',
142 'zfs_rename_007_pos', 'zfs_rename_008_pos', 'zfs_rename_009_neg',
143 'zfs_rename_010_neg', 'zfs_rename_011_pos', 'zfs_rename_012_neg',
144 'zfs_rename_013_pos']

146 [/opt/zfs-tests/tests/functional/cli_root/zfs_reservation]
147 tests = ['zfs_reservation_001_pos', 'zfs_reservation_002_pos']

149 [/opt/zfs-tests/tests/functional/cli_root/zfs_rollback]
150 tests = ['zfs_rollback_001_pos', 'zfs_rollback_002_pos',
151 'zfs_rollback_003_neg', 'zfs_rollback_004_neg']
152 tests = ['zfs_rollback_001_pos', 'zfs_rollback_002_pos', 'zfs_rollback_003_neg',
153 'zfs_rollback_004_neg']

153 [/opt/zfs-tests/tests/functional/cli_root/zfs_send]
154 tests = ['zfs_send_001_pos', 'zfs_send_002_pos', 'zfs_send_003_pos',
155 'zfs_send_004_neg', 'zfs_send_005_pos', 'zfs_send_006_pos']

157 [/opt/zfs-tests/tests/functional/cli_root/zfs_set]
158 tests = ['cache_001_pos', 'cache_002_neg', 'canmount_001_pos',
159 'canmount_002_pos', 'canmount_003_pos', 'canmount_004_pos',
160 'checksum_001_pos', 'compression_001_pos', 'mountpoint_001_pos',
161 'mountpoint_002_pos', 'mountpoint_003_pos', 'onoffs_001_pos',
162 'property_alias_001_pos', 'readonly_001_pos', 'reservation_001_neg',
163 'ro_props_001_pos', 'share_mount_001_neg', 'snapdir_001_pos',
164 'user_property_001_pos', 'user_property_002_pos', 'user_property_003_neg',
165 'user_property_004_pos', 'version_001_neg', 'zfs_set_001_neg',
166 'zfs_set_002_neg', 'zfs_set_003_neg']

168 [/opt/zfs-tests/tests/functional/cli_root/zfs_share]
169 tests = ['zfs_share_001_pos', 'zfs_share_002_pos', 'zfs_share_003_pos',
170 'zfs_share_004_pos', 'zfs_share_005_pos', 'zfs_share_006_pos',
171 'zfs_share_007_neg', 'zfs_share_008_neg', 'zfs_share_009_neg',
172 'zfs_share_010_neg', 'zfs_share_011_pos']

174 [/opt/zfs-tests/tests/functional/cli_root/zfs_snapshot]
175 tests = ['zfs_snapshot_001_neg', 'zfs_snapshot_002_neg',
176 'zfs_snapshot_003_neg', 'zfs_snapshot_004_neg', 'zfs_snapshot_005_neg',
177 'zfs_snapshot_006_pos', 'zfs_snapshot_007_neg', 'zfs_snapshot_008_neg',
178 'zfs_snapshot_009_pos']
179 tests = ['zfs_snapshot_001_neg', 'zfs_snapshot_002_neg', 'zfs_snapshot_003_neg',
180 'zfs_snapshot_004_neg', 'zfs_snapshot_005_neg', 'zfs_snapshot_006_pos',
181 'zfs_snapshot_007_neg', 'zfs_snapshot_008_neg', 'zfs_snapshot_009_pos']

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180 [/opt/zfs-tests/tests/functional/cli_root/zfs_unmount]
181 tests = ['zfs_unmount_001_pos', 'zfs_unmount_002_pos', 'zfs_unmount_003_pos',
182 'zfs_unmount_004_pos', 'zfs_unmount_005_pos', 'zfs_unmount_006_pos',
183 'zfs_unmount_007_neg', 'zfs_unmount_008_neg', 'zfs_unmount_009_pos',
184 'zfs_unmount_all_001_pos']

186 [/opt/zfs-tests/tests/functional/cli_root/zfs_unshare]
187 tests = ['zfs_unshare_001_pos', 'zfs_unshare_002_pos', 'zfs_unshare_003_pos',
188 'zfs_unshare_004_neg', 'zfs_unshare_005_neg']

190 [/opt/zfs-tests/tests/functional/cli_root/zfs_upgrade]
191 tests = ['zfs_upgrade_001_pos', 'zfs_upgrade_002_pos', 'zfs_upgrade_003_pos',
192 'zfs_upgrade_004_pos', 'zfs_upgrade_005_pos', 'zfs_upgrade_006_neg',
193 'zfs_upgrade_007_neg']

195 [/opt/zfs-tests/tests/functional/cli_root/zpool]
196 tests = ['zpool_001_neg', 'zpool_002_pos', 'zpool_003_pos']

198 [/opt/zfs-tests/tests/functional/cli_root/zpool_add]
199 tests = ['zpool_add_001_pos', 'zpool_add_002_pos', 'zpool_add_003_pos',
200 'zpool_add_004_pos', 'zpool_add_005_pos', 'zpool_add_006_pos',
201 'zpool_add_007_neg', 'zpool_add_008_neg', 'zpool_add_009_neg']

203 [/opt/zfs-tests/tests/functional/cli_root/zpool_attach]
204 tests = ['zpool_attach_001_neg']

206 [/opt/zfs-tests/tests/functional/cli_root/zpool_clear]
207 tests = ['zpool_clear_001_pos', 'zpool_clear_002_neg', 'zpool_clear_003_neg']

209 [/opt/zfs-tests/tests/functional/cli_root/zpool_create]
210 tests = ['zpool_create_001_pos', 'zpool_create_002_pos',
211 'zpool_create_003_pos', 'zpool_create_004_pos', 'zpool_create_005_pos',
212 'zpool_create_006_pos', 'zpool_create_007_neg', 'zpool_create_008_pos',
213 'zpool_create_009_neg', 'zpool_create_010_neg', 'zpool_create_011_neg',
214 'zpool_create_012_neg', 'zpool_create_013_neg', 'zpool_create_014_neg',
215 'zpool_create_015_neg', 'zpool_create_016_pos', 'zpool_create_017_neg',
216 'zpool_create_018_pos', 'zpool_create_019_pos', 'zpool_create_020_pos',
217 'zpool_create_021_pos', 'zpool_create_022_pos', 'zpool_create_023_neg',
218 tests = ['zpool_create_001_pos', 'zpool_create_002_pos', 'zpool_create_003_pos',
219 'zpool_create_004_pos', 'zpool_create_005_pos', 'zpool_create_006_pos',
220 'zpool_create_007_neg', 'zpool_create_008_pos', 'zpool_create_009_neg',
221 'zpool_create_010_neg', 'zpool_create_011_neg', 'zpool_create_012_neg',
222 'zpool_create_013_neg', 'zpool_create_014_neg', 'zpool_create_015_neg',
223 'zpool_create_016_pos', 'zpool_create_017_neg', 'zpool_create_018_pos',
224 'zpool_create_019_pos', 'zpool_create_020_pos', 'zpool_create_021_pos',
225 'zpool_create_022_pos', 'zpool_create_023_neg',
226 'zpool_create_features_001_pos', 'zpool_create_features_002_pos',
227 'zpool_create_features_003_pos', 'zpool_create_features_004_neg']

221 [/opt/zfs-tests/tests/functional/cli_root/zpool_destroy]
222 tests = ['zpool_destroy_001_pos', 'zpool_destroy_002_pos',
223 'zpool_destroy_003_neg']
224 pre =
225 post =

227 [/opt/zfs-tests/tests/functional/cli_root/zpool_detach]
228 tests = ['zpool_detach_001_neg']

230 [/opt/zfs-tests/tests/functional/cli_root/zpool_expand]
231 tests = ['zpool_expand_001_pos', 'zpool_expand_002_pos',
232 'zpool_expand_003_neg']
233 tests = ['zpool_expand_001_pos', 'zpool_expand_002_pos', 'zpool_expand_003_neg']

234 [/opt/zfs-tests/tests/functional/cli_root/zpool_export]
235 tests = ['zpool_export_001_pos', 'zpool_export_002_pos',

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236 'zpool_export_003_neg', 'zpool_export_004_pos']
237 tests = ['zpool_export_001_pos', 'zpool_export_002_pos', 'zpool_export_003_neg',
238 'zpool_export_004_pos']

239 [/opt/zfs-tests/tests/functional/cli_root/zpool_get]
240 tests = ['zpool_get_001_pos', 'zpool_get_002_pos', 'zpool_get_003_pos',
241 'zpool_get_004_neg']

242 [/opt/zfs-tests/tests/functional/cli_root/zpool_history]
243 tests = ['zpool_history_001_neg', 'zpool_history_002_pos']

244 [/opt/zfs-tests/tests/functional/cli_root/zpool_import]
245 tests = ['zpool_import_001_pos', 'zpool_import_002_pos',
246 'zpool_import_003_pos', 'zpool_import_004_pos', 'zpool_import_005_pos',
247 'zpool_import_006_pos', 'zpool_import_007_pos', 'zpool_import_008_pos',
248 'zpool_import_009_neg', 'zpool_import_010_pos', 'zpool_import_011_neg',
249 'zpool_import_012_pos', 'zpool_import_013_neg', 'zpool_import_all_001_pos',
250 tests = ['zpool_import_001_pos', 'zpool_import_002_pos', 'zpool_import_003_pos',
251 'zpool_import_004_pos', 'zpool_import_005_pos', 'zpool_import_006_pos',
252 'zpool_import_007_pos', 'zpool_import_008_pos', 'zpool_import_009_neg',
253 'zpool_import_010_pos', 'zpool_import_011_neg', 'zpool_import_012_pos',
254 'zpool_import_013_neg', 'zpool_import_all_001_pos',
255 'zpool_import_features_001_pos', 'zpool_import_features_002_neg',
256 'zpool_import_features_003_pos', 'zpool_import_missing_001_pos',
257 'zpool_import_missing_002_pos', 'zpool_import_missing_003_pos',
258 'zpool_import_rename_001_pos']

259 [/opt/zfs-tests/tests/functional/cli_root/zpool_offline]
260 tests = ['zpool_offline_001_pos', 'zpool_offline_002_neg']

261 [/opt/zfs-tests/tests/functional/cli_root/zpool_online]
262 tests = ['zpool_online_001_pos', 'zpool_online_002_neg']

263 [/opt/zfs-tests/tests/functional/cli_root/zpool_remove]
264 tests = ['zpool_remove_001_neg', 'zpool_remove_002_pos',
265 'zpool_remove_003_pos']
266 tests = ['zpool_remove_001_neg', 'zpool_remove_002_pos', 'zpool_remove_003_pos']

267 [/opt/zfs-tests/tests/functional/cli_root/zpool_replace]
268 tests = ['zpool_replace_001_neg']

269 [/opt/zfs-tests/tests/functional/cli_root/zpool_scrub]
270 tests = ['zpool_scrub_001_neg', 'zpool_scrub_002_pos', 'zpool_scrub_003_pos',
271 'zpool_scrub_004_pos', 'zpool_scrub_005_pos']

272 [/opt/zfs-tests/tests/functional/cli_root/zpool_set]
273 tests = ['zpool_set_001_pos', 'zpool_set_002_neg', 'zpool_set_003_neg']
274 pre =
275 post =

276 [/opt/zfs-tests/tests/functional/cli_root/zpool_status]
277 tests = ['zpool_status_001_pos', 'zpool_status_002_pos']

278 [/opt/zfs-tests/tests/functional/cli_root/zpool_upgrade]
279 tests = ['zpool_upgrade_001_pos', 'zpool_upgrade_002_pos',
280 'zpool_upgrade_003_pos', 'zpool_upgrade_004_pos', 'zpool_upgrade_005_neg',
281 'zpool_upgrade_006_neg', 'zpool_upgrade_007_pos', 'zpool_upgrade_008_pos',
282 'zpool_upgrade_009_neg']

283 [/opt/zfs-tests/tests/functional/cli_user/misc]
284 tests = ['zdb_001_neg', 'zfs_001_neg', 'zfs_allow_001_neg',
285 'zfs_clone_001_neg', 'zfs_create_001_neg', 'zfs_destroy_001_neg',
286 'zfs_get_001_neg', 'zfs_inherit_001_neg', 'zfs_mount_001_neg',
287 'zfs_promote_001_neg', 'zfs_receive_001_neg', 'zfs_rename_001_neg',
288 'zfs_rollback_001_neg', 'zfs_send_001_neg', 'zfs_set_001_neg',
289 'zfs_share_001_neg', 'zfs_snapshot_001_neg', 'zfs_unallow_001_neg',

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294 'zfs_unmount_001_neg', 'zfs_unshare_001_neg', 'zfs_upgrade_001_neg',
295 'zpool_001_neg', 'zpool_add_001_neg', 'zpool_attach_001_neg',
296 'zpool_clear_001_neg', 'zpool_create_001_neg', 'zpool_destroy_001_neg',
297 'zpool_detach_001_neg', 'zpool_export_001_neg', 'zpool_get_001_neg',
298 'zpool_history_001_neg', 'zpool_import_001_neg', 'zpool_import_002_neg',
299 'zpool_offline_001_neg', 'zpool_online_001_neg', 'zpool_remove_001_neg',
300 'zpool_replace_001_neg', 'zpool_scrub_001_neg', 'zpool_set_001_neg',
301 'zpool_status_001_neg', 'zpool_upgrade_001_neg']
302 user =
303 [/opt/zfs-tests/tests/functional/truncate]
304 tests = ['truncate_001_pos', 'truncate_002_pos']

305 [/opt/zfs-tests/tests/functional/cli_user/zfs_list]
306 tests = ['zfs_list_001_pos', 'zfs_list_002_pos', 'zfs_list_003_pos',
307 'zfs_list_004_neg', 'zfs_list_007_pos', 'zfs_list_008_neg']
308 user =

309 [/opt/zfs-tests/tests/functional/cli_user/zpool_iostat]
310 tests = ['zpool_iostat_001_neg', 'zpool_iostat_002_pos',
311 'zpool_iostat_003_neg']
312 user =

313 [/opt/zfs-tests/tests/functional/cli_user/zpool_list]
314 tests = ['zpool_list_001_pos', 'zpool_list_002_neg']
315 user =

316 [/opt/zfs-tests/tests/functional/compression]
317 tests = ['compress_001_pos', 'compress_002_pos', 'compress_003_pos',
318 'compress_004_pos']

319 [/opt/zfs-tests/tests/functional/ctime]
320 tests = ['ctime_001_pos']

321 [/opt/zfs-tests/tests/functional/delegate]
322 tests = ['zfs_allow_001_pos', 'zfs_allow_002_pos',
323 'zfs_allow_004_pos', 'zfs_allow_005_pos', 'zfs_allow_006_pos',
324 'zfs_allow_007_pos', 'zfs_allow_008_pos', 'zfs_allow_009_neg',
325 'zfs_allow_010_pos', 'zfs_allow_011_neg', 'zfs_allow_012_neg',
326 'zfs_unallow_001_pos', 'zfs_unallow_002_pos', 'zfs_unallow_003_pos',
327 'zfs_unallow_004_pos', 'zfs_unallow_005_pos', 'zfs_unallow_006_pos',
328 'zfs_unallow_007_neg', 'zfs_unallow_008_neg']

329 [/opt/zfs-tests/tests/functional/devices]
330 tests = ['devices_001_pos', 'devices_002_neg', 'devices_003_pos']

331 [/opt/zfs-tests/tests/functional/exec]
332 tests = ['exec_001_pos', 'exec_002_neg']

333 [/opt/zfs-tests/tests/functional/features/async_destroy]
334 tests = ['async_destroy_001_pos']

335 [/opt/zfs-tests/tests/functional/grow_pool]
336 tests = ['grow_pool_001_pos']

337 [/opt/zfs-tests/tests/functional/grow_replicas]
338 tests = ['grow_replicas_001_pos']

339 [/opt/zfs-tests/tests/functional/history]
340 tests = ['history_001_pos', 'history_002_pos', 'history_003_pos',
341 'history_004_pos', 'history_005_neg', 'history_006_neg', 'history_007_pos',
342 'history_008_pos', 'history_009_pos', 'history_010_pos']

343 [/opt/zfs-tests/tests/functional/inheritance]
344 tests = ['inherit_001_pos']
345 pre =

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358 [/opt/zfs-tests/tests/functional/interop]
359 tests = ['interop_001_pos']

361 [/opt/zfs-tests/tests/functional/inuse]
362 tests = ['inuse_001_pos', 'inuse_002_pos', 'inuse_003_pos', 'inuse_004_pos',
363         'inuse_005_pos', 'inuse_006_pos', 'inuse_007_pos', 'inuse_008_pos',
364         'inuse_009_pos']
365 post =

367 [/opt/zfs-tests/tests/functional/large_files]
368 tests = ['large_files_001_pos']

370 [/opt/zfs-tests/tests/functional/largest_pool]
371 tests = ['largest_pool_001_pos']
372 pre =
373 post =

375 [/opt/zfs-tests/tests/functional/link_count]
376 tests = ['link_count_001']

378 [/opt/zfs-tests/tests/functional/mdb]
379 tests = ['mdb_001_pos']

381 [/opt/zfs-tests/tests/functional/migration]
382 tests = ['migration_001_pos', 'migration_002_pos', 'migration_003_pos',
383         'migration_004_pos', 'migration_005_pos', 'migration_006_pos',
384         'migration_007_pos', 'migration_008_pos', 'migration_009_pos',
385         'migration_010_pos', 'migration_011_pos', 'migration_012_pos']

387 [/opt/zfs-tests/tests/functional/mmap]
388 tests = ['mmap_read_001_pos', 'mmap_write_001_pos']

390 [/opt/zfs-tests/tests/functional/mount]
391 tests = ['umount_001', 'umountall_001']

393 [/opt/zfs-tests/tests/functional/mv_files]
394 tests = ['mv_files_001_pos', 'mv_files_002_pos']

396 [/opt/zfs-tests/tests/functional/nesteddfs]
397 tests = ['nesteddfs_001_pos']

399 [/opt/zfs-tests/tests/functional/no_space]
400 tests = ['enospc_001_pos']

402 [/opt/zfs-tests/tests/functional/nopwrite]
403 tests = ['nopwrite_copies', 'nopwrite_mtime', 'nopwrite_negative',
404         'nopwrite_promoted_clone', 'nopwrite_recsize', 'nopwrite_sync',
405         'nopwrite_varying_compression', 'nopwrite_volume']

407 [/opt/zfs-tests/tests/functional/online_offline]
408 tests = ['online_offline_001_pos', 'online_offline_002_neg',
409         'online_offline_003_neg']

411 [/opt/zfs-tests/tests/functional/pool_names]
412 tests = ['pool_names_001_pos', 'pool_names_002_neg']
413 pre =
414 post =

416 [/opt/zfs-tests/tests/functional/poolversion]
417 tests = ['poolversion_001_pos', 'poolversion_002_pos']

419 [/opt/zfs-tests/tests/functional/privilege]
420 tests = ['privilege_001_pos', 'privilege_002_pos']

422 [/opt/zfs-tests/tests/functional/quota]
423 tests = ['quota_001_pos', 'quota_002_pos', 'quota_003_pos', 'quota_004_pos',

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424         'quota_005_pos', 'quota_006_neg']

426 [/opt/zfs-tests/tests/functional/redundancy]
427 tests = ['redundancy_001_pos', 'redundancy_002_pos', 'redundancy_003_pos']

429 [/opt/zfs-tests/tests/functional/refquota]
430 tests = ['refquota_001_pos', 'refquota_002_pos', 'refquota_003_pos',
431         'refquota_004_pos', 'refquota_005_pos', 'refquota_006_neg']

433 [/opt/zfs-tests/tests/functional/refreserv]
434 tests = ['refreserv_001_pos', 'refreserv_002_pos', 'refreserv_003_pos',
435         'refreserv_004_pos', 'refreserv_005_pos']

437 [/opt/zfs-tests/tests/functional/rename_dirs]
438 tests = ['rename_dirs_001_pos']

440 [/opt/zfs-tests/tests/functional/replacement]
441 tests = ['replacement_001_pos', 'replacement_002_pos']

443 [/opt/zfs-tests/tests/functional/reservation]
444 tests = ['reservation_001_pos', 'reservation_002_pos', 'reservation_003_pos',
445         'reservation_004_pos', 'reservation_005_pos', 'reservation_006_pos',
446         'reservation_007_pos', 'reservation_008_pos', 'reservation_009_pos',
447         'reservation_010_pos', 'reservation_011_pos', 'reservation_012_pos',
448         'reservation_013_pos', 'reservation_014_pos', 'reservation_015_pos',
449         'reservation_016_pos', 'reservation_017_pos', 'reservation_018_pos']

451 [/opt/zfs-tests/tests/functional/rootpool]
452 tests = ['rootpool_002_neg', 'rootpool_003_neg', 'rootpool_007_neg']

454 [/opt/zfs-tests/tests/functional/rsend]
455 tests = ['rsend_001_pos', 'rsend_002_pos', 'rsend_003_pos', 'rsend_004_pos',
456         'rsend_005_pos', 'rsend_006_pos', 'rsend_007_pos', 'rsend_008_pos',
457         'rsend_009_pos', 'rsend_010_pos', 'rsend_011_pos', 'rsend_012_pos',
458         'rsend_013_pos']

460 [/opt/zfs-tests/tests/functional/scrub_mirror]
461 tests = ['scrub_mirror_001_pos', 'scrub_mirror_002_pos',
462         'scrub_mirror_003_pos', 'scrub_mirror_004_pos']

464 [/opt/zfs-tests/tests/functional/slog]
465 tests = ['slog_001_pos', 'slog_002_pos', 'slog_003_pos', 'slog_004_pos',
466         'slog_005_pos', 'slog_006_pos', 'slog_007_pos', 'slog_008_neg',
467         'slog_009_neg', 'slog_010_neg', 'slog_011_neg', 'slog_012_neg',
468         'slog_013_pos', 'slog_014_pos']

470 [/opt/zfs-tests/tests/functional/snapshot]
471 tests = ['clone_001_pos', 'rollback_001_pos', 'rollback_002_pos',
472         'rollback_003_pos', 'snapshot_001_pos', 'snapshot_002_pos',
473         'snapshot_003_pos', 'snapshot_004_pos', 'snapshot_005_pos',
474         'snapshot_006_pos', 'snapshot_007_pos', 'snapshot_008_pos',
475         'snapshot_009_pos', 'snapshot_010_pos', 'snapshot_011_pos',
476         'snapshot_012_pos', 'snapshot_013_pos', 'snapshot_014_pos',
477         'snapshot_015_pos', 'snapshot_016_pos', 'snapshot_017_pos']

479 [/opt/zfs-tests/tests/functional/snapused]
480 tests = ['snapused_001_pos', 'snapused_002_pos', 'snapused_003_pos',
481         'snapused_004_pos', 'snapused_005_pos']

483 [/opt/zfs-tests/tests/functional/sparse]
484 tests = ['sparse_001_pos']

486 [/opt/zfs-tests/tests/functional/threadsappend]
487 tests = ['threadsappend_001_pos']

489 [/opt/zfs-tests/tests/functional/truncate]

```

```
490 tests = ['truncate_001_pos', 'truncate_002_pos']

492 [/opt/zfs-tests/tests/functional/userquota]
493 tests = ['groupspace_001_pos', 'groupspace_002_pos', 'userquota_001_pos',
494 'userquota_002_pos', 'userquota_003_pos', 'userquota_004_pos',
495 'userquota_005_neg', 'userquota_006_pos', 'userquota_007_pos',
496 'userquota_008_pos', 'userquota_009_pos', 'userquota_010_pos',
497 'userquota_011_pos', 'userquota_012_neg', 'userspace_001_pos',
498 'userspace_002_pos']

500 [/opt/zfs-tests/tests/functional/utils_test]
501 tests = ['utils_test_001_pos', 'utils_test_002_pos', 'utils_test_003_pos',
502 'utils_test_004_pos', 'utils_test_005_pos', 'utils_test_006_pos',
503 'utils_test_007_pos', 'utils_test_008_pos', 'utils_test_009_pos']

505 [/opt/zfs-tests/tests/functional/write_dirs]
506 tests = ['write_dirs_001_pos', 'write_dirs_002_pos']

508 [/opt/zfs-tests/tests/functional/xattr]
509 tests = ['xattr_001_pos', 'xattr_002_neg', 'xattr_003_neg', 'xattr_004_pos',
510 'xattr_005_pos', 'xattr_006_pos', 'xattr_007_neg', 'xattr_008_pos',
511 'xattr_009_neg', 'xattr_010_neg', 'xattr_011_pos', 'xattr_012_pos',
512 'xattr_013_pos']

514 [/opt/zfs-tests/tests/functional/zvol/zvol_ENOSPC]
515 tests = ['zvol_ENOSPC_001_pos']

517 [/opt/zfs-tests/tests/functional/zvol/zvol_cli]
518 tests = ['zvol_cli_001_pos', 'zvol_cli_002_pos', 'zvol_cli_003_neg']

520 [/opt/zfs-tests/tests/functional/zvol/zvol_misc]
521 tests = ['zvol_misc_001_neg', 'zvol_misc_002_pos', 'zvol_misc_003_neg',
522 'zvol_misc_004_pos', 'zvol_misc_005_neg', 'zvol_misc_006_pos']

524 [/opt/zfs-tests/tests/functional/zvol/zvol_swap]
525 tests = ['zvol_swap_001_pos', 'zvol_swap_002_pos', 'zvol_swap_003_pos',
526 'zvol_swap_004_pos', 'zvol_swap_005_pos', 'zvol_swap_006_pos']
```

```

*****
1209 Fri Nov 22 15:19:18 2013
new/usr/src/test/zfs-tests/tests/functional/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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15 #

17 .PARALLEL: $(SUBDIRS)

19 SUBDIRS = acl \
20 atime \
21 bootfs \
22 cache \
23 cachefile \
24 clean_mirror \
25 cli_root \
26 cli_user \
27 compression \
28 ctime \
29 delegate \
30 devices \
31 exec \
32 features \
33 grow_pool \
34 grow_replicas \
35 history \
36 inheritance \
37 interop \
38 inuse \
39 large_files \
40 largest_pool \
41 link_count \
42 mdb \
43 migration \
44 mmap \
45 mount \
46 mv_files \
47 nestedfs \
48 no_space \
49 nopwrite \
50 online_offline \
51 pool_names \
52 poolversion \
53 privilege \

```

```

54 quota \
55 redundancy \
56 refquota \
57 refreserv \
58 rename_dirs \
59 replacement \
60 reservation \
61 rootpool \
62 rsend \
63 scrub_mirror \
64 slog \
65 snapshot \
66 snapused \
67 sparse \
68 threadsappend \
69 truncate \
70 userquota \
71 utils_test \
72 write_dirs \
73 xattr \
74 zvol
23 truncate

```

```
77 include $(SRC)/test/Makefile.com
```

new/usr/src/test/zfs-tests/tests/functional/cache/Makefile

1

1062 Fri Nov 22 15:19:19 2013
new/usr/src/test/zfs-tests/tests/functional/cache/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/cache
20 #
21 PROGS = cleanup \
22         setup \
23         cache_001_pos \
24         cache_002_pos \
25         cache_003_pos \
26         cache_004_neg \
27         cache_005_neg \
28         cache_006_pos \
29         cache_007_neg \
30         cache_008_neg \
31         cache_009_pos \
32         cache_010_neg \
33         cache_011_pos
34 #
35 FILES = cache.cfg \
36         cache.kshlib
37 #
38 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
39 $(CMDS) := FILEMODE = 0555
40 #
41 all lint clean clobber:
42 #
43 install: $(CMDS)
44 #
45 $(CMDS): $(TESTDIR)
46 #
47 $(TESTDIR):
48     $(INS.dir)
49 #
50 $(TESTDIR)/%: %.ksh
51     $(INS.rename)
52 #
53 $(TESTDIR)/%: %
54     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/cache/Makefile

2

new/usr/src/test/zfs-tests/tests/functional/cache/cache.cfg

1

```
1691 Fri Nov 22 15:19:19 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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```

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30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 function set_disks
34 {
35     set -A disk_array $(find_disks $DISKS)
36 #
37     typeset -i DISK_ARRAY_NUM=0
38 #
39     if (( ${#disk_array[*]} <= 1 )); then
40         export DISK=${DISKS%% *}
41     else
42         export DISK=""
43         typeset -i i=0
44         while (( i < ${#disk_array[*]} )); do
45             export DISK${i}=${disk_array[$i]}
46             DISKSARRAY=${DISKSARRAY} ${disk_array[$i]}
47             (( i = i + 1 ))
48         done
49         export DISK_ARRAY_NUM=${i}
50         export DISKSARRAY
51     fi
52 #
53     if (( $DISK_ARRAY_NUM == 0 )); then
54         export disk=$DISK
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache.cfg

2

```
55     else
56         export disk=$DISK0
57     fi
58 }
59 #
60 set_disks
61 #
62 export SIZE=64M
63 #
64 export VDIR=/disk.cache
65 export VDIR2=/disk2.cache
66 #
67 export VDEV="$VDIR/a $VDIR/b $VDIR/c"
68 export LDEV="$DISK0"
69 export VDEV2="$VDIR2/a $VDIR2/b $VDIR2/c"
70 export LDEV2="$DISK1"
```

```

*****
3589 Fri Nov 22 15:19:20 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 function cleanup
34 {
35     if datasetexists $TESTPOOL ; then
36         log_must $ZPOOL destroy -f $TESTPOOL
37     fi
38     if datasetexists $TESTPOOL2 ; then
39         log_must $ZPOOL destroy -f $TESTPOOL2
40     fi
41 }
42 #
43 #
44 # Try zpool status/iostat for given pool
45 #
46 # $1 pool
47 #
48 function display_status
49 {
50     typeset pool=$1
51 #
52     typeset -i ret=0
53     $ZPOOL status -xv $pool > /dev/null 2>&1
54     ret=$?

```

```

56     $ZPOOL iostat > /dev/null 2>&1
57     ((ret |= $?))
58 #
59     typeset mntpnt=$(get_prop mountpoint $pool)
60     $DD if=/dev/random of=$mntpnt/testfile.$$ &&
61     typeset pid=$!
62 #
63     $ZPOOL iostat -v 1 3 > /dev/null
64     ((ret |= $?))
65 #
66     kill -9 $pid
67 #
68     return $ret
69 }
70 #
71 #
72 # Verify the given cache device have correct type and status
73 #
74 # $1 pool name
75 # $2 device name
76 # $3 device status
77 # $4 device type
78 #
79 function verify_cache_device
80 {
81     typeset pool=$1
82     typeset device=$2
83     typeset status=$3
84     typeset type=$4
85 #
86     if [[ -z $pool || -z $device || -z $status ]]; then
87         log_fail "Usage: verify_cache_device <pool> <device> " \
88             "<status> [type]"
89     fi
90 #
91     if [[ $WRAPPER == *"smi"* ]]; then
92         $ECHO $device | $EGREP "^[c0-F]+([td][0-F]+)$" > /dev/null 2>&1
93         if (( $? == 0 )); then
94             device=${device}s2
95         fi
96     fi
97 #
98     #
99     # Get all the cache devices and status table like below
100     #
101     # mirror:/disks/d ONLINE mirror:/disks/e ONLINE stripe:/disks/f ONLINE
102     #
103     set -A dev_stat_tab $(($ZPOOL status -v $pool | $NAWK 'BEGIN {start=0} \
104         /\tcache/ {start=1}
105         /\tmirror/ || /\tspares/ || /\t^$/ {start=0}
106         (start==1) && /\t (\|[a-zA-Z])/ \
107             {print "stripe:" $1 " " $2}
108         (start==1) && /\t (\|[a-zA-Z])/ \
109             {print "mirror:" $1 " " $2}
110         # When hotspare is replacing
111         (start==1) && /\t (\|[a-zA-Z])/ \
112             {print "mirror:" $1 " " $2}'
113     )
114 #
115     typeset -i i=0
116     typeset find=0
117     while (( i < ${#dev_stat_tab[@]} )); do
118         typeset dev=${dev_stat_tab[$i]}
119         typeset stat=${dev_stat_tab[{i+1}]}

```

```
121     case $dev in
122         stripe:$device)
123             if [[ "$type" == 'mirror' ]]; then
124                 log_note "Unexpected type: mirror"
125                 return 1
126             else
127                 if [[ $stat != $status ]]; then
128                     log_note "Status($stat) " \
129                         "!= Expected stat($stat)"
130                     return 1
131                 fi
132                 return 0
133             fi
134             ;;
135         mirror:$device)
136             if [[ -z "$type" || $type == 'stripe' ]]; then
137                 log_note "Unexpected type: stripe"
138                 return 1
139             else
140                 if [[ $stat != $status ]]; then
141                     log_note "Status($stat) " \
142                         "!= Expected stat($stat)"
143                     return 1
144                 fi
145                 return 0
146             fi
147             ;;
148     esac
149     ((i += 2))
150 done

152     log_note "Can not find device: $device"
153     return 1
154 }

156 function verify_cache_support
157 {
158     $ZPOOL upgrade -v | $GREP "Cache devices" > /dev/null 2>&1
159     return $?
160 }
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_001_pos.ksh

1

1809 Fri Nov 22 15:19:20 2013

new/usr/src/test/zfs-tests/tests/functional/cache/cache_001_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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30 #
31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Creating a pool with a cache device succeeds.
38 #
39 # STRATEGY:
40 #     1. Create pool with separated cache devices.
41 #     2. Display pool status
42 #     3. Destroy and loop to create pool with different configuration.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Creating a pool with a cache device succeeds."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     logMust $ZPOOL create $TESTPOOL $type $VDEV \
53         cache $LDEV
54     logMust display_status $TESTPOOL
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_001_pos.ksh

2

```
56     ldev=$(random_get $LDEV)
57     logMust verify_cache_device $TESTPOOL $ldev 'ONLINE'
58 #
59     logMust $ZPOOL remove $TESTPOOL $ldev
60     logMust check_vdev_state $TESTPOOL $ldev ""
61 #
62     logMust $ZPOOL destroy -f $TESTPOOL
63 done
64 #
65 log_pass "Creating a pool with a cache device succeeds."
```


new/usr/src/test/zfs-tests/tests/functional/cache/cache_002_pos.ksh 1

```
*****
1859 Fri Nov 22 15:19:21 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Adding a cache device to normal pool works.
38 #
39 # STRATEGY:
40 #     1. Create pool
41 #     2. Add cache devices with different configuration
42 #     3. Display pool status
43 #     4. Destroy and loop to create pool with different configuration.
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "Adding a cache device to normal pool works."
49 log_onexit cleanup
50 #
51 for type in "" "mirror" "raidz" "raidz2"
52 do
53     log_must $ZPOOL create $TESTPOOL $type $VDEV
54     log_must $ZPOOL add $TESTPOOL cache $LDEV
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_002_pos.ksh 2

```
55     log_must display_status $TESTPOOL
56     typeset ldev=$(random_get $LDEV)
57     log_must verify_cache_device $TESTPOOL $ldev 'ONLINE'
58 #
59     log_must $ZPOOL remove $TESTPOOL $ldev
60     log_must check_vdev_state $TESTPOOL $ldev ""
61 #
62     log_must $ZPOOL destroy -f $TESTPOOL
63 done
64 #
65 log_pass "Adding a cache device to normal pool works."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_003_pos.ksh 1

```
*****
1886 Fri Nov 22 15:19:21 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Adding an extra cache device works
38 #
39 # STRATEGY:
40 #     1. Create pool with separated cache devices.
41 #     2. Add an extra cache devices
42 #     3. Display pool status
43 #     4. Destroy and loop to create pool with different configuration.
44 #
45 #
46 verify_runnable "global"
47 verify_disk_count "$LDEV2"
48 #
49 log_assert "Adding an extra cache device works."
50 log_onexit cleanup
51 #
52 for type in "" "mirror" "raidz" "raidz2"
53 do
54     log_must $ZPOOL create $TESTPOOL $type $VDEV \
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_003_pos.ksh 2

```
55         cache $LDEV
56     log_must $ZPOOL add $TESTPOOL \
57         cache $LDEV2
58 #
59     log_must display_status $TESTPOOL
60     ldev=$(random_get $LDEV2)
61     log_must verify_cache_device $TESTPOOL $ldev 'ONLINE'
62 #
63     log_must $ZPOOL remove $TESTPOOL $ldev
64     log_must check_vdev_state $TESTPOOL $ldev ""
65 #
66     log_must $ZPOOL destroy -f $TESTPOOL
67 done
68 #
69 log_pass "Adding an extra cache device works."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_004_neg.ksh

1

1804 Fri Nov 22 15:19:21 2013

new/usr/src/test/zfs-tests/tests/functional/cache/cache_004_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Attaching a cache device fails.
38 #
39 # STRATEGY:
40 #     1. Create pool with separated cache devices.
41 #     2. Attaching a cache device for existing cache device
42 #     3. Verify the operation fails
43 #
44 #
45 verify_runnable "global"
46 verify_disk_count "$LDEV2"
47 #
48 log_assert "Attaching a cache device fails for an existing cache device."
49 log_onexit cleanup
50 #
51 for type in "" "mirror" "raidz" "raidz2"
52 do
53     log_must $ZPOOL create $TESTPOOL $type $VDEV \
54         cache $LDEV
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_004_neg.ksh

2

```
56     ldev=$(random_get $LDEV)
57     typeset ldev2=$(random_get $LDEV2)
58     log_mustnot $ZPOOL attach $TESTPOOL $ldev $ldev2
59     log_must check_vdev_state $TESTPOOL $ldev2 ""
60 #
61     log_must $ZPOOL destroy -f $TESTPOOL
62 done
63 #
64 log_pass "Attaching a cache device fails for an existing cache device."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_005_neg.ksh 1

```
*****
1817 Fri Nov 22 15:19:22 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_005_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Replacing a cache device fails.
38 #
39 # STRATEGY:
40 #     1. Create pool with cache devices.
41 #     2. Replacing one cache device
42 #     3. Verify replace fails
43 #     4. Destroy and loop to create pool with different configuration.
44 #
45 #
46 verify_runnable "global"
47 verify_disk_count "$LDEV2"
48 #
49 log_assert "Replacing a cache device fails."
50 log_onexit cleanup
51 #
52 for type in "" "mirror" "raidz" "raidz2"
53 do
54     log_must $ZPOOL create $TESTPOOL $type $VDEV \
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_005_neg.ksh 2

```
55         cache $LDEV
56         sdev=$(random_get $LDEV)
57         tdev=$(random_get $LDEV2)
58         log_mustnot $ZPOOL replace $TESTPOOL $sdev $tdev
59         log_must verify_cache_device $TESTPOOL $sdev 'ONLINE'
60         log_must check_vdev_state $TESTPOOL $tdev ""
61 #
62         log_must $ZPOOL destroy -f $TESTPOOL
63 done
64 #
65 log_pass "Replacing a cache device fails."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_006_pos.ksh

1

```
*****
2344 Fri Nov 22 15:19:22 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Exporting and importing pool with cache devices passes.
38 #
39 # STRATEGY:
40 #     1. Create pool with cache devices.
41 #     2. Export and import the pool
42 #     3. Display pool status
43 #     4. Destroy and import the pool again
44 #     5. Display pool status
45 #     6. Destroy and loop to create pool with different configuration.
46 #
47 #
48 verify_runnable "global"
49 verify_disk_count "$LDEV2"
50 #
51 log_assert "Exporting and importing pool with cache devices passes."
52 log_onexit cleanup
53 #
54 for type in "" "mirror" "raidz" "raidz2"
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_006_pos.ksh

2

```
55 do
56     log_must $ZPOOL create $TESTPOOL $type $VDEV \
57         cache $LDEV $LDEV2
58     ldev=$(random_get $LDEV $LDEV2)
59     log_must verify_cache_device \
60         $TESTPOOL $ldev 'ONLINE'
61 #
62 #
63 # Nomal export/import operating
64 #
65 log_must $ZPOOL export $TESTPOOL
66 log_must $ZPOOL import -d $VDIR $TESTPOOL
67 log_must display_status $TESTPOOL
68 ldev=$(random_get $LDEV $LDEV2)
69 log_must verify_cache_device \
70     $TESTPOOL $ldev 'ONLINE'
71 #
72 #
73 # Destroy the pool and import again
74 #
75 log_must $ZPOOL destroy $TESTPOOL
76 log_must $ZPOOL import -Df -d $VDIR $TESTPOOL
77 log_must display_status $TESTPOOL
78 ldev=$(random_get $LDEV $LDEV2)
79 log_must verify_cache_device \
80     $TESTPOOL $ldev 'ONLINE'
81 #
82 log_must $ZPOOL destroy -f $TESTPOOL
83 done
84 #
85 log_pass "Exporting and importing pool with cache devices passes."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_007_neg.ksh

1

1768 Fri Nov 22 15:19:22 2013

new/usr/src/test/zfs-tests/tests/functional/cache/cache_007_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     A mirror/raidz/raidz2 cache is not supported.
38 #
39 # STRATEGY:
40 #     1. Try to create pool with unsupported type
41 #     2. Verify failed to create pool.
42 #
43 #
44 verify_runnable "global"
45 verify_disk_count "$LDEV2"
46 #
47 log_assert "A mirror/raidz/raidz2 cache is not supported."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     for cachetype in "mirror" "raidz" "raidz1" "raidz2"
53     do
54         log_mustnot $ZPOOL create $TESTPOOL $type $VDEV \
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_007_neg.ksh

2

```
55         cache $cachetype $LDEV $LDEV2
56         ldev=$(random_get $LDEV $LDEV2)
57         log_mustnot verify_cache_device \
58             $TESTPOOL $ldev 'ONLINE' $cachetype
59         log_must datasetnonexists $TESTPOOL
60     done
61 done
62 #
63 log_pass "A mirror/raidz/raidz2 cache is not supported."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_008_neg.ksh 1

```
*****
1878 Fri Nov 22 15:19:23 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_008_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     A mirror/raidz/raidz2 cache can not be added to existed pool.
38 #
39 # STRATEGY:
40 #     1. Create pool with or without cache.
41 #     2. Add a mirror/raidz/raidz2 cache to this pool.
42 #     3. Verify failed to add.
43 #
44 #
45 verify_runnable "global"
46 verify_disk_count "$LDEV2"
47 #
48 log_assert "A raidz/raidz2 cache can not be added to existed pool."
49 log_onexit cleanup
50 #
51 for type in "" "mirror" "raidz" "raidz2"
52 do
53     for cachetype in "mirror" "raidz" "raidz1" "raidz2"
54     do
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_008_neg.ksh 2

```
55         log_must $ZPOOL create $TESTPOOL $type $VDEV \
56             cache $LDEV
57 #
58         log_mustnot $ZPOOL add $TESTPOOL cache $cachetype $LDEV2
59         ldev=$(random_get $LDEV2)
60         log_mustnot verify_cache_device \
61             $TESTPOOL $ldev 'ONLINE' $cachetype
62 #
63         log_must $ZPOOL destroy $TESTPOOL
64     done
65 done
66 #
67 log_pass "A mirror/raidz/raidz2 cache can not be added to existed pool."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_009_pos.ksh 1

```
*****
1968 Fri Nov 22 15:19:23 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Offline and online a cache device succeed.
38 #
39 # STRATEGY:
40 #     1. Create pool with mirror cache devices.
41 #     2. Offline and online a cache device
42 #     3. Display pool status
43 #     4. Destroy and loop to create pool with different configuration.
44 #
45 #
46 verify_runnable "global"
47 verify_disk_count "$LDEV2"
48 #
49 log_assert "Offline and online a cache device succeed."
50 log_onexit cleanup
51 #
52 for type in "" "mirror" "raidz" "raidz2"
53 do
54     log_must $ZPOOL create $TESTPOOL $type $VDEV \
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_009_pos.ksh 2

```
55         cache $LDEV $LDEV2
56 #
57 ldev=$(random_get $LDEV $LDEV2)
58 log_must $ZPOOL offline $TESTPOOL $ldev
59 log_must display_status $TESTPOOL
60 log_must verify_cache_device $TESTPOOL $ldev 'OFFLINE' ''
61 #
62 log_must $ZPOOL online $TESTPOOL $ldev
63 log_must display_status $TESTPOOL
64 log_must verify_cache_device $TESTPOOL $ldev 'ONLINE' ''
65 #
66 log_must $ZPOOL destroy -f $TESTPOOL
67 done
68 #
69 log_pass "Offline and online a cache device succeed."
```


new/usr/src/test/zfs-tests/tests/functional/cache/cache_010_neg.ksh

1

```
*****
2251 Fri Nov 22 15:19:23 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_010_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify cache device must be a block device.
38 #
39 # STRATEGY:
40 #     1. Create a pool
41 #     2. Add different object as cache
42 #     3. Verify character devices and files fail
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup_testenv
48 {
49     cleanup
50     if [[ -n $lofidev ]]; then
51         log_must $LOFIADM -d $lofidev
52     fi
53 }
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_010_neg.ksh

2

```
55 log_assert "Cache device can only be block devices."
56 log_onexit cleanup_testenv
57 #
58 TESTVOL=testvoll1$$
59 dsk1=${DISKS%% *}
60 log_must $ZPOOL create $TESTPOOL ${DISKS#$dsk1}
61 #
62 # Add nomal /dev/rdsk device
63 log_mustnot $ZPOOL add $TESTPOOL cache /dev/rdsk/${dsk1}s0
64 #log_must verify_cache_device $TESTPOOL $dsk1 'ONLINE'
65 #
66 # Add nomal file
67 log_mustnot $ZPOOL add $TESTPOOL cache $VDEV2
68 #
69 # Add /dev/rlofi device
70 lofidev=${VDEV2%% *}
71 log_must $LOFIADM -a $lofidev
72 lofidev=${LOFIADM $lofidev}
73 log_mustnot $ZPOOL add $TESTPOOL cache "/dev/rlofi/${lofidev#/dev/lofi/}"
74 if [[ -n $lofidev ]]; then
75     log_must $LOFIADM -d $lofidev
76     lofidev=""
77 fi
78 #
79 # Add /dev/zvol/rdsk device
80 log_must $ZPOOL create $TESTPOOL2 $VDEV2
81 log_must $ZFS create -V $SIZE $TESTPOOL2/$TESTVOL
82 log_mustnot $ZPOOL add $TESTPOOL cache /dev/zvol/rdsk/$TESTPOOL2/$TESTVOL
83 #
84 log_pass "Cache device can only be block devices."
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_011_pos.ksh 1

```
*****
1864 Fri Nov 22 15:19:24 2013
new/usr/src/test/zfs-tests/tests/functional/cache/cache_011_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Remove cache device from pool with spare device should succeed.
38 #
39 # STRATEGY:
40 #     1. Create pool with cache devices and spare devices
41 #     2. Remove cache device from the pool
42 #     3. The upper action should succeed
43 #
44 #
45 verify_runnable "global"
46 verify_disk_count "$LDEV2"
47 #
48 function cleanup {
49     if datasetexists $TESTPOOL ; then
50         log_must $ZPOOL destroy -f $TESTPOOL
51     fi
52 }
53 #
54 log_assert "Remove cache device from pool with spare device should succeed"
```

new/usr/src/test/zfs-tests/tests/functional/cache/cache_011_pos.ksh 2

```
55 log_onexit cleanup
57 for type in "" "mirror" "raidz" "raidz2"
58 do
59     log_must $ZPOOL create $TESTPOOL $type $VDEV \
60         cache $LDEV spare $LDEV2
61 #
62     log_must $ZPOOL remove $TESTPOOL $LDEV
63     log_must display_status $TESTPOOL
64 #
65     log_must $ZPOOL destroy -f $TESTPOOL
66 done
67 #
68 log_pass "Remove cache device from pool with spare device should succeed"
```

new/usr/src/test/zfs-tests/tests/functional/cache/cleanup.ksh

1

1294 Fri Nov 22 15:19:24 2013

new/usr/src/test/zfs-tests/tests/functional/cache/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 verify_runnable "global"
36 #
37 if datasetexists $TESTPOOL ; then
38     log_must $ZPOOL destroy -f $TESTPOOL
39 fi
40 if datasetexists $TESTPOOL2 ; then
41     log_must $ZPOOL destroy -f $TESTPOOL2
42 fi
43 #
44 log_must $RM -rf $VDIR $VDIR2
45 #
46 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/cache/setup.ksh

1

1313 Fri Nov 22 15:19:24 2013

new/usr/src/test/zfs-tests/tests/functional/cache/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/tests/functional/cache/cache.cfg
33 . $STF_SUITE/tests/functional/cache/cache.kshlib
34 #
35 verify_runnable "global"
36 #
37 if ! $(is_physical_device $LDEV) ; then
38     log_unsupported "Only physical disk could be cache device"
39 fi
40 #
41 log_pass
42 log_pass
43 log_pass
44 #
45 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/cache/Makefile

1

951 Fri Nov 22 15:19:25 2013

new/usr/src/test/zfs-tests/tests/functional/cache/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/cache
```

```
21 PROGS = cachefile_001_pos \
22         cachefile_002_pos \
23         cachefile_003_pos \
24         cachefile_004_pos
```

```
26 FILES = cachefile.cfg \
27         cachefile.kshlib
```

```
29 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
30 $(CMDS) := FILEMODE = 0555
```

```
32 all lint clean clobber:
```

```
34 install: $(CMDS)
```

```
36 $(CMDS): $(TESTDIR)
```

```
38 $(TESTDIR):
39     $(INS.dir)
```

```
41 $(TESTDIR)/%: %.ksh
42     $(INS.rename)
```

```
44 $(TESTDIR)/%: %
45     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/cachefile/cachefile.cfg

1

1061 Fri Nov 22 15:19:25 2013

new/usr/src/test/zfs-tests/tests/functional/cachefile/cachefile.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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26 #
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29 #
30 #
31 export CPATH="/etc/zfs/zpool.cache"
32 export CPATH1=/var/tmp/cachefile.$$
33 export CPATH2=/cachefile.$$
```

new/usr/src/test/zfs-tests/tests/functional/cache/cachefile/cachefile.kshlib

1

1381 Fri Nov 22 15:19:25 2013

new/usr/src/test/zfs-tests/tests/functional/cache/cachefile/cachefile.kshlib

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 #
33 # A function to determine if a given pool name has an entry in cachefile
34 # returns 1 if the pool is not in the cache, 0 otherwise.
35 function pool_in_cache {
36
37     # checking for the pool name in the strings output of
38     # the given cachefile, default is /etc/zfs/zpool.cache
39     typeset cachefile=${2:-$CPATH}
40
41     RESULT=$(($STRINGS $cachefile | $GREP -w $1)
42     if [ -z "$RESULT" ]
43     then
44         return 1
45     fi
46     return 0
47 }
```

new/usr/src/test/zfs-tests/tests/functional/cache/001_pos.ksh 1

```
*****
2576 Fri Nov 22 15:19:26 2013
new/usr/src/test/zfs-tests/tests/functional/cache/001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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33 . $STF_SUITE/tests/functional/cache/001_pos.kshlib
34 . $STF_SUITE/tests/functional/cache/001_pos.kshlib
35 #
36 #
37 # DESCRIPTION:
38 #
39 # Creating a pool with "cachefile" set doesn't update zpool.cache
40 #
41 # STRATEGY:
42 # 1. Create a pool with the cachefile property set
43 # 2. Verify that the pool doesn't have an entry in zpool.cache
44 # 3. Verify the cachefile property is set
45 # 4. Create a pool without the cachefile property
46 # 5. Verify the cachefile property isn't set
47 # 6. Verify that zpool.cache contains an entry for the pool
48 #
49 #
50 function cleanup
51 {
52     typeset file
53
54     if poolexists $TESTPOOL ; then
```

new/usr/src/test/zfs-tests/tests/functional/cache/001_pos.ksh 2

```
55         destroy_pool $TESTPOOL
56     fi
57     for file in $CPATH1 $CPATH2 ; do
58         if [[ -f $file ]] ; then
59             log_must $RM $file
60         fi
61     done
62 }
63
64 verify_runnable "global"
65
66 log_assert "Creating a pool with \"cachefile\" set doesn't update zpool.cache"
67 log_onexit cleanup
68
69 set -A opts "none" "false" "none" \
70     "$CPATH" "true" "-" \
71     "$CPATH1" "true" "$CPATH1" \
72     "$CPATH2" "true" "$CPATH2"
73
74 typeset -i i=0
75
76 while (( i < ${#opts[*]} )); do
77     log_must $ZPOOL create -o cachefile=${opts[i]} $TESTPOOL $DISKS
78     case ${opts[(i+1)]} in
79         false) log_mustnot pool_in_cache $TESTPOOL
80             ;;
81         true) log_must pool_in_cache $TESTPOOL ${opts[i]}
82             ;;
83     esac
84
85     PROP=$(get_pool_prop cachefile $TESTPOOL)
86     if [[ $PROP != ${opts[(i+2)]} ]] ; then
87         log_fail "cachefile property not set as expected. " \
88             "Expect: ${opts[(i+2)]}, Current: $PROP"
89     fi
90     log_must $ZPOOL destroy $TESTPOOL
91     (( i = i + 3 ))
92 done
93
94 log_pass "Creating a pool with \"cachefile\" set doesn't update zpool.cache"
```


new/usr/src/test/zfs-tests/tests/functional/cache/002_pos.ksh 1

2424 Fri Nov 22 15:19:26 2013
new/usr/src/test/zfs-tests/tests/functional/cache/002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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33 . $STF_SUITE/tests/functional/cache/002_pos.kshlib
34 . $STF_SUITE/tests/functional/cache/002_pos.kshlib
35 #
36 #
37 # DESCRIPTION:
38 #
39 # Importing a pool with "cachefile" set doesn't update zpool.cache
40 #
41 # STRATEGY:
42 # 1. Create a pool with the cachefile property set
43 # 2. Verify the pool doesn't have an entry in zpool.cache
44 # 3. Export the pool
45 # 4. Import the pool
46 # 5. Verify the pool does have an entry in zpool.cache
47 # 6. Export the pool
48 # 7. Import the pool -o cachefile=<cachefile>
49 # 8. Verify the pool doesn't have an entry in zpool.cache
50 #
51 #
52 function cleanup
53 {
54     if poolexists $TESTPOOL ; then
```

new/usr/src/test/zfs-tests/tests/functional/cache/002_pos.ksh 2

```
55         destroy_pool $TESTPOOL
56     fi
57 }
58 #
59 verify_runnable "global"
60 #
61 log_assert "Importing a pool with \"cachefile\" set doesn't update zpool.cache"
62 log_onexit cleanup
63 #
64 log_must $ZPOOL create -o cachefile=none $TESTPOOL $DISKS
65 typeset DEVICEDIR=$(get_device_dir $DISKS)
66 log_mustnot pool_in_cache $TESTPOOL
67 #
68 log_must $ZPOOL export $TESTPOOL
69 log_must $ZPOOL import -d $DEVICEDIR $TESTPOOL
70 log_must pool_in_cache $TESTPOOL
71 #
72 log_must $ZPOOL export $TESTPOOL
73 log_must $ZPOOL import -o cachefile=none -d $DEVICEDIR $TESTPOOL
74 log_mustnot pool_in_cache $TESTPOOL
75 #
76 log_must $ZPOOL export $TESTPOOL
77 log_must $ZPOOL import -o cachefile=$CPATH -d $DEVICEDIR $TESTPOOL
78 log_must pool_in_cache $TESTPOOL
79 #
80 log_must $ZPOOL destroy $TESTPOOL
81 #
82 log_pass "Importing a pool with \"cachefile\" set doesn't update zpool.cache"
```

new/usr/src/test/zfs-tests/tests/functional/cache/003_pos.ksh 1

```
*****
2481 Fri Nov 22 15:19:26 2013
new/usr/src/test/zfs-tests/tests/functional/cache/003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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31 #
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33 . $STF_SUITE/tests/functional/cache/003_pos.kshlib
34 . $STF_SUITE/tests/functional/cache/003_pos.kshlib
35 #
36 #
37 # DESCRIPTION:
38 #
39 # Setting altroot=<path> and cachefile=$CPATH for zpool create is succeed
40 #
41 # STRATEGY:
42 # 1. Attempt to create a pool with -o altroot=<path> -o cachefile=<value>
43 # 2. Verify the command succeed
44 #
45 #
46 #
47 TESTDIR=altdir.$$
48 #
49 function cleanup
50 {
51     typeset file
52 #
53     if poolexists $TESTPOOL ; then
54         destroy_pool $TESTPOOL
55     fi
56 }
57 #
58 #
59 #
60 #
61 #
62 #
63 #
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new/usr/src/test/zfs-tests/tests/functional/cache/003_pos.ksh 2

```
55     fi
56 #
57     for file in $CPATH1 $CPATH2 ; do
58         if [[ -f $file ]] ; then
59             log_must $RM $file
60         fi
61     done
62 #
63     if [ -d $TESTDIR ]
64     then
65         $RMDIR $TESTDIR
66     fi
67 }
68 #
69 verify_runnable "global"
70 #
71 log_assert "Setting altroot=path and cachefile=$CPATH for zpool create succeed."
72 log_onexit cleanup
73 #
74 typeset -i i=0
75 #
76 set -A opts "none" "none" \
77     "$CPATH" "-" \
78     "$CPATH1" "$CPATH1" \
79     "$CPATH2" "$CPATH2"
80 #
81 #
82 while (( i < ${#opts[*]} )); do
83     log_must $ZPOOL create -o altroot=$TESTDIR -o cachefile=${opts[i]} \
84         $TESTPOOL $DISKS
85     if [[ ${opts[i]} != none ]]; then
86         log_must pool_in_cache $TESTPOOL ${opts[i]}
87     else
88         log_mustnot pool_in_cache $TESTPOOL
89     fi
90 #
91     PROP=$(get_pool_prop cachefile $TESTPOOL)
92     if [[ $PROP != ${opts[(i+1)]} ]]; then
93         log_fail "cachefile property not set as expected. " \
94             "Expect: ${opts[(i+1)]}, Current: $PROP"
95     fi
96     log_must $ZPOOL destroy $TESTPOOL
97     (( i = i + 2 ))
98 done
99 #
100 log_pass "Setting altroot=path and cachefile=$CPATH for zpool create succeed."
```

3454 Fri Nov 22 15:19:27 2013
new/usr/src/test/zfs-tests/tests/functional/cache/004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

```
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25 # Use is subject to license terms.
26 #
27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/cache/004_pos.kshlib
34 . $STF_SUITE/tests/functional/cache/004_pos.kshlib
35 #
36 #
37 # DESCRIPTION:
38 # Verify set, export and destroy when cache/004_pos.kshlib
39 #
40 # STRATEGY:
41 # 1. Create two pools with one same cahcefile1.
42 # 2. Set cache/004_pos.kshlib of the two pools to another same cache/004_pos.kshlib2.
43 # 3. Verify cache/004_pos.kshlib1 not exist.
44 # 4. Export the two pools.
45 # 5. Verify cache/004_pos.kshlib2 not exist.
46 # 6. Import the two pools and set cache/004_pos.kshlib to cache/004_pos.kshlib2.
47 # 7. Destroy the two pools.
48 # 8. Verify cache/004_pos.kshlib2 not exist.
49 #
50 #
51 verify_runnable "global"
52 #
53 function cleanup
54 {
```

```
55 poolexists $TESTPOOL1 && destroy_pool $TESTPOOL1
56 poolexists $TESTPOOL2 && destroy_pool $TESTPOOL2
57 #
58 mntmnt=$(get_prop mountpoint $TESTPOOL)
59 typeset -i i=0
60 while ((i < 2)); do
61     if [[ -e $mntmnt/vdev$i ]]; then
62         log_must $RM -f $mntmnt/vdev$i
63     fi
64     ((i += 1))
65 done
66 #
67 if poolexists $TESTPOOL ; then
68     destroy_pool $TESTPOOL
69 fi
70 #
71 for file in $CPATH1 $CPATH2 ; do
72     if [[ -f $file ]] ; then
73         log_must $RM $file
74     fi
75 done
76 }
77 #
78 #
79 log_assert "Verify set, export and destroy when cache/004_pos.kshlib is set on pool."
80 log_onexit cleanup
81 #
82 log_must $ZPOOL create $TESTPOOL $DISKS
83 #
84 mntmnt=$(get_prop mountpoint $TESTPOOL)
85 typeset -i i=0
86 while ((i < 2)); do
87     log_must $MKFILE 64M $mntmnt/vdev$i
88     eval vdev$i=$mntmnt/vdev$i
89     ((i += 1))
90 done
91 #
92 log_must $ZPOOL create -o cache/004_pos.kshlib=$CPATH1 $TESTPOOL1 $vdev0
93 log_must pool_in_cache $TESTPOOL1 $CPATH1
94 log_must $ZPOOL create -o cache/004_pos.kshlib=$CPATH1 $TESTPOOL2 $vdev1
95 log_must pool_in_cache $TESTPOOL2 $CPATH1
96 #
97 log_must $ZPOOL set cache/004_pos.kshlib=$CPATH2 $TESTPOOL1
98 log_must pool_in_cache $TESTPOOL1 $CPATH2
99 log_must $ZPOOL set cache/004_pos.kshlib=$CPATH2 $TESTPOOL2
100 log_must pool_in_cache $TESTPOOL2 $CPATH2
101 if [[ -f $CPATH1 ]]; then
102     log_fail "Verify set when cache/004_pos.kshlib is set on pool."
103 fi
104 #
105 log_must $ZPOOL export $TESTPOOL1
106 log_must $ZPOOL export $TESTPOOL2
107 if [[ -f $CPATH2 ]]; then
108     log_fail "Verify export when cache/004_pos.kshlib is set on pool."
109 fi
110 #
111 log_must $ZPOOL import -d $mntmnt $TESTPOOL1
112 log_must $ZPOOL set cache/004_pos.kshlib=$CPATH2 $TESTPOOL1
113 log_must pool_in_cache $TESTPOOL1 $CPATH2
114 log_must $ZPOOL import -d $mntmnt $TESTPOOL2
115 log_must $ZPOOL set cache/004_pos.kshlib=$CPATH2 $TESTPOOL2
116 log_must pool_in_cache $TESTPOOL2 $CPATH2
117 #
118 log_must $ZPOOL destroy $TESTPOOL1
119 log_must $ZPOOL destroy $TESTPOOL2
120 if [[ -f $CPATH2 ]]; then
```

new/usr/src/test/zfs-tests/tests/functional/cachefile/cachefile_004_pos.ksh 3

```
121         log_fail "Verify destroy when cachefile is set on pool."  
122     fi  
  
124 log_pass "Verify set, export and destroy when cachefile is set on pool."
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/Makefile

1

994 Fri Nov 22 15:19:27 2013

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

```
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2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
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5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
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9 # http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/clean_mirror
20 #
21 PROGS = clean_mirror_001_pos \
22         clean_mirror_002_pos \
23         clean_mirror_003_pos \
24         clean_mirror_004_pos \
25         cleanup \
26         setup
27 #
28 FILES = clean_mirror_common.kshlib \
29         default.cfg
30 #
31 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
32 $(CMDS) := FILEMODE = 0555
33 #
34 all lint clean clobber:
35 #
36 install: $(CMDS)
37 #
38 $(CMDS): $(TESTDIR)
39 #
40 $(TESTDIR):
41     $(INS.dir)
42 #
43 $(TESTDIR)/%: %.ksh
44     $(INS.rename)
45 #
46 $(TESTDIR)/%: %
47     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_001_pos.ks 1

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new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_001_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/clean_mirror/clean_mirror_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # The primary side of a zpool mirror can be zeroed without causing damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem mirror
42 # 2) dd from /dev/zero over the primary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "The primary side of a zpool mirror may be completely wiped" \
49 "without affecting the content of the pool"
50 #
51 overwrite_verify_mirror $SIDE_PRIMARY /dev/zero
52 #
53 log_pass "The overwrite had no effect on the data"
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_001_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_002_pos.ks 1

1671 Fri Nov 22 15:19:28 2013

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_002_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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26 #
27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/clean_mirror/clean_mirror_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # The secondary side of a zpool mirror can be zeroed without causing damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem in the mirrored pool
42 # 2) dd from /dev/zero over the secondary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "The primary side of a zpool mirror may be completely wiped" \
49 "without affecting the content of the pool"
50 #
51 overwrite_verify_mirror $SIDE_SECONDARY /dev/zero
52 #
53 log_pass "The overwrite had no effect on the data"
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_002_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_003_pos.ks 1

1670 Fri Nov 22 15:19:28 2013

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_003_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/clean_mirror/clean_mirror_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # The primary side of a zpool mirror can be mangled without causing damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem mirror
42 # 2) dd from /dev/urandom over the primary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "The primary side of a zpool mirror may be completely mangled" \
49 "without affecting the content of the pool"
50 #
51 overwrite_verify_mirror $SIDE_PRIMARY /dev/urandom
52 #
53 log_pass "The overwrite did not have any effect on the data"
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_003_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_004_pos.ks 1

1680 Fri Nov 22 15:19:29 2013

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_004_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
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4208 Typo in zfs_main.c: "posxiuser"
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30 #
31 #
32 . \$STF_SUITE/include/libtest.shlib
33 . \$STF_SUITE/tests/functional/clean_mirror/clean_mirror_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # The secondary side of a zpool mirror can be mangled without causing damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem in the mirrored pool
42 # 2) dd from /dev/urandom over the secondary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "The primary side of a zpool mirror may be completely mangled" \
49 "without affecting the content of the pool"
50 #
51 overwrite_verify_mirror \$SIDE_SECONDARY /dev/urandom
52 #
53 log_pass "The overwrite had no effect on the data"

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_004_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_common.ksh 1

```
*****
2340 Fri Nov 22 15:19:29 2013
new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_common.ksh
lib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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29 #
30 #
31 . $STF_SUITE/tests/functional/clean_mirror/default.cfg
32 #
33 # Most of the code related to the clearing of mirrors is duplicated in all
34 # the test cases below this directory, barring a few minor changes
35 # involving the device to be affected and the 'object' to use to mangle
36 # the contents of the mirror.
37 # This code is sourced into each of these test cases.
38 #
39 function overwrite_verify_mirror
40 {
41     typeset AFFECTED_DEVICE=$1
42     typeset OVERWRITING_DEVICE=$2
43 #
44     typeset atfile=0
45     set -A files
46     set -A cksums
47     set -A newcksums
48 #
49     while (( atfile < FILE_COUNT )); do
50         files[$atfile]=$TESTDIR/file.$atfile
51         log_must $FILE_WRITE -o create -f $TESTDIR/file.$atfile \
52             -b $FILE_SIZE -c 1
53         cksums[$atfile]=${CKSUM ${files[$atfile]}}
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/clean_mirror_common.ksh 2

```
54         (( atfile = atfile + 1 ))
55     done
56 #
57 # dd the primary side of the mirror
58 log_must $DD if=$OVERWRITING_DEVICE of=/dev/dsk/$AFFECTED_DEVICE \
59     seek=8 bs=$DD_BLOCK count=$(( DD_COUNT - 8 )) conv=notrunc
60 #
61 atfile=0
62 #
63 typeset -i failedcount=0
64 while (( atfile < FILE_COUNT )); do
65     files[$atfile]=$TESTDIR/file.$atfile
66     newcksum=${CKSUM ${files[$atfile]}}
67     if [[ $newcksum != ${cksums[$atfile]} ]]; then
68         (( failedcount = failedcount + 1 ))
69     fi
70     $RM -f ${files[$atfile]}
71     (( atfile = atfile + 1 ))
72 done
73 #
74 if (( $failedcount > 0 )); then
75     log_fail "of the $FILE_COUNT files $failedcount did not " \
76         "have the same checksum before and after."
77 fi
78 }
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/cleanup.ksh

1

1450 Fri Nov 22 15:19:30 2013

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/tests/functional/clean_mirror/default.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 verify_runnable "global"
36 #
37 $DF -F zfs -h | $GREP "$TESTFS " >/dev/null
38 [[ $? == 0 ]] && log_must $ZFS umount -f $TESTDIR
39 destroy_pool $TESTPOOL
40 #
41 # recreate and destroy a zpool over the disks to restore the partitions to
42 # normal
43 if [[ -n $SINGLE_DISK ]]; then
44     log_must cleanup_devices $MIRROR_PRIMARY
45 else
46     log_must cleanup_devices $MIRROR_PRIMARY $MIRROR_SECONDARY
47 fi
48 #
49 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/default.cfg 1

1721 Fri Nov 22 15:19:30 2013
new/usr/src/test/zfs-tests/tests/functional/clean_mirror/default.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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29 #
30 #
31 typeset -i NUMBER_OF_DISKS=0
32 for i in $DISKS; do
33     [[ -n $MIRROR_PRIMARY ]] && MIRROR_SECONDARY=$i
34     [[ -z $MIRROR_PRIMARY ]] && MIRROR_PRIMARY=$i
35 done
36 #
37 if [[ -z $MIRROR_SECONDARY ]]; then
38     # We need to repartition the single disk to two slices
39     SINGLE_DISK=$MIRROR_PRIMARY
40     MIRROR_SECONDARY=$MIRROR_PRIMARY
41     SIDE_PRIMARY=${SINGLE_DISK}s0
42     SIDE_SECONDARY=${SINGLE_DISK}s1
43 else
44     SIDE_PRIMARY=${MIRROR_PRIMARY}s0
45     SIDE_SECONDARY=${MIRROR_SECONDARY}s0
46 fi
47 #
48 export MIRROR_PRIMARY MIRROR_SECONDARY SINGLE_DISK SIDE_PRIMARY SIDE_SECONDARY
49 #
50 export FILE_COUNT=30
51 export FILE_SIZE=$(( 1024 * 1024 ))
52 export MIRROR_MEGS=70
53 export MIRROR_SIZE=${MIRROR_MEGS}m # default mirror size
54 export DD_BLOCK=$(( 64 * 1024 ))
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/default.cfg 2

```
55 export DD_COUNT=$(( MIRROR_MEGS * 1024 * 1024 / DD_BLOCK ))
```

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/setup.ksh

1

1580 Fri Nov 22 15:19:30 2013

new/usr/src/test/zfs-tests/tests/functional/clean_mirror/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/tests/functional/clean_mirror/default.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 verify_runnable "global"
36 #
37 if ! $(is_physical_device $DISKS) ; then
38     log_unsupported "This directory cannot be run on raw files."
39 fi
40 #
41 if [[ -n $SINGLE_DISK ]]; then
42     log_note "Partitioning a single disk ($SINGLE_DISK)"
43 else
44     log_note "Partitioning disks ($MIRROR_PRIMARY $MIRROR_SECONDARY)"
45 fi
46 log_must set_partition ${SIDE_PRIMARY##*s} "" $MIRROR_SIZE $MIRROR_PRIMARY
47 log_must set_partition ${SIDE_SECONDARY##*s} "" $MIRROR_SIZE $MIRROR_SECONDARY
48 #
49 default_mirror_setup $SIDE_PRIMARY $SIDE_SECONDARY
50 #
51 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get.cfg 1

1434 Fri Nov 22 15:19:31 2013

new/usr/src/test/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get.cfg

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 # Set the expected properties of zpool
32 typeset -a properties=("size" "capacity" "altroot" "health" "guid" "version"
33 "bootfs" "delegation" "autoreplace" "cachefile" "dedupditto" "dedupratio"
34 "free" "allocated" "readonly" "comment" "expandsize" "freeing" "failmode"
35 "listsnapshots" "autoexpand" "feature@async_destroy" "feature@empty_bpobj"
36 "feature@lz4_compress" "feature@multi_vdev_crash_dump"
37 "feature@spacemap_histogram" "feature@extensible_dataset")
```

new/usr/src/test/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get_002_pos 1

```
*****
2468 Fri Nov 22 15:19:31 2013
new/usr/src/test/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get_002_pos
.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/cli_root/zpool_get/zpool_get.cfg
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool get all works as expected
39 #
40 # STRATEGY:
41 #
42 # 1. Using zpool get, retrieve all default values
43 # 2. Verify that the header is printed
44 # 3. Verify that we can see all the properties we expect to see
45 # 4. Verify that the total output contains just those properties + header.
46 #
47 # Test for those properties are expected to check whether their
48 # default values are sane, or whether they can be changed with zpool set.
49 #
50 #
51 log_assert "Zpool get all works as expected"
52 #
53 typeset -i i=0;
```

new/usr/src/test/zfs-tests/tests/functional/cli_root/zpool_get/zpool_get_002_pos 2

```
55 if ! is_global_zone ; then
56     TESTPOOL=${TESTPOOL%/*}
57 fi
58 #
59 log_must $ZPOOL get all $TESTPOOL
60 $ZPOOL get all $TESTPOOL > /tmp/values.$$
61 #
62 log_note "Checking zpool get all output for a header."
63 $GREP ^"NAME " /tmp/values.$$ > /dev/null 2>&1
64 if [ $? -ne 0 ]
65 then
66     log_fail "The header was not printed from zpool get all"
67 fi
68 #
69 #
70 while [ $i -lt "${#properties[@]}" ]
71 do
72     log_note "Checking for ${properties[$i]} property"
73     $GREP "$TESTPOOL *${properties[$i]}" /tmp/values.$$ > /dev/null 2>&1
74     if [ $? -ne 0 ]
75     then
76         log_fail "zpool property ${properties[$i]} was not found\
77 in pool output."
78     fi
79     i=$(( $i + 1 ))
80 done
81 #
82 # increment the counter to include the header line
83 i=$(( $i + 1 ))
84 #
85 COUNT=$(( $WC /tmp/values.$$ | $AWK '{print $1}' )
86 if [ $i -ne $COUNT ]
87 then
88     log_fail "Found zpool features not in the zpool_get test config."
89     log_fail "Length of output $COUNT was not equal to number of props + 1."
90 fi
91 #
92 #
93 $RM /tmp/values.$$
94 log_pass "Zpool get all works as expected"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/Makefile

1

899 Fri Nov 22 15:19:32 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/Makefile

4206 history_003_pos relies on exact size of history log and entries

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```

```
16 .PARALLEL: $(SUBDIRS)
```

```
18 include $(SRC)/Makefile.master
```

```
20 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
21 TESTDIR = $(ROOTOPTPKG)/tests/functional/cli_user
```

```
23 PROGS = cli_common.kshlib
```

```
25 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
26 $(CMDS) := FILEMODE = 0555
```

```
28 all lint clean clobber:
```

```
30 install: $(CMDS)
```

```
32 $(CMDS): $(TESTDIR)
```

```
34 $(TESTDIR):
```

```
35     $(INS.dir)
```

```
37 $(TESTDIR)/%: %
```

```
38     $(INS.file)
```

```
40 SUBDIRS = misc \
```

```
41     zfs_list \
```

```
42     zpool_iostat \
```

```
43     zpool_list
```

```
45 include $(SRC)/test/Makefile.com
```



```
*****
```

```
1781 Fri Nov 22 15:19:32 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/Makefile
```

```
4206 history_003_pos relies on exact size of history log and entries
```

```
4207 history_008_pos depends on obsolete internal history log message
```

```
4208 Typo in zfs_main.c: "posxiuser"
```

```
4209 Populate zfstest with the remainder of the STF tests
```

```
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
```

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Reviewed by: Will Guyette <will.guyette@delphix.com>
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Reviewed by: Eric Diven <eric.diven@delphix.com>
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Reviewed by: Christopher Siden <christopher.siden@delphix.com>
```

```
*****
```

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```

```
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/cli_user/misc
```

```
21 PROGS = cleanup \
22         setup \
23         zdb_001_neg \
24         zfs_001_neg \
25         zfs_allow_001_neg \
26         zfs_clone_001_neg \
27         zfs_create_001_neg \
28         zfs_destroy_001_neg \
29         zfs_get_001_neg \
30         zfs_inherit_001_neg \
31         zfs_mount_001_neg \
32         zfs_promote_001_neg \
33         zfs_receive_001_neg \
34         zfs_rename_001_neg \
35         zfs_rollback_001_neg \
36         zfs_send_001_neg \
37         zfs_set_001_neg \
38         zfs_share_001_neg \
39         zfs_snapshot_001_neg \
40         zfs_unallow_001_neg \
41         zfs_unmount_001_neg \
42         zfs_unshare_001_neg \
43         zfs_upgrade_001_neg \
44         zpool_001_neg \
45         zpool_add_001_neg \
46         zpool_attach_001_neg \
47         zpool_clear_001_neg \
48         zpool_create_001_neg \
49         zpool_destroy_001_neg \
50         zpool_detach_001_neg \
51         zpool_export_001_neg \
52         zpool_get_001_neg \
53         zpool_history_001_neg \
54         zpool_import_001_neg \
```

```
55         zpool_import_002_neg \
56         zpool_offline_001_neg \
57         zpool_online_001_neg \
58         zpool_remove_001_neg \
59         zpool_replace_001_neg \
60         zpool_scrub_001_neg \
61         zpool_set_001_neg \
62         zpool_status_001_neg \
63         zpool_upgrade_001_neg
```

```
65 FILES = misc.cfg
```

```
67 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
68 $(CMDS) := FILEMODE = 0555
```

```
70 all lint clean clobber:
```

```
72 install: $(CMDS)
```

```
74 $(CMDS): $(TESTDIR)
```

```
76 $(TESTDIR):
77     $(INS.dir)
```

```
79 $(TESTDIR)/%: %
80     $(INS.file)
```

```
82 $(TESTDIR)/%: %.ksh
83     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/cleanup.ksh

1

1320 Fri Nov 22 15:19:33 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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Reviewed by: Eric Diven <eric.diven@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 if poolexists $TESTPOOL.virt
36 then
37     log_must $ZPOOL destroy $TESTPOOL.virt
38 fi
39 #
40 if poolexists v1-pool
41 then
42     log_must $ZPOOL destroy v1-pool
43 fi
44 #
45 if [[ -f /tmp/zfstest_datastream.dat ]]
46 then
47     log_must $RM -f /tmp/zfstest_datastream.dat
48 fi
49 #
50 default_cleanup
```

```
*****
```

```
1876 Fri Nov 22 15:19:33 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/misc.cfg
```

```
4206 history_003_pos relies on exact size of history log and entries
```

```
4207 history_008_pos depends on obsolete internal history log message
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```
4208 Typo in zfs_main.c: "posxiuser"
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4209 Populate zfstest with the remainder of the STF tests
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27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 # these are the set of settable ZFS properties
32 PROP_NAMES="\
33     aclinherit      aclmode      atime          \
34     checksum        compression  devices \
35     exec            mountpoint  quota         readonly \
36     recordsize      reservation  setuid        sharenfs \
37     snapdir"
38 #
39 # these are a set of values we apply, for use when testing the
40 # zfs get/set subcommands - ordered as per the list above so we
41 # can iterate over both sets in an array
42 PROP_VALS="\
43     secure          discard     on           \
44     fletcher2       on         on \
45     on              legacy     none        on \
46     128k            none      on          on \
47     visible"
48 #
49 # these are an alternate set of property values
50 PROP_ALTVALS="\
51     noallow         groupmask  off         \
52     fletcher4       lzjb      off \
53     off             /tmp/zfstest 100m      off \
54     512             10m       off        off \
```

```
55     hidden"
```

```
59 # additional properties to worry about: canmount copies xattr zoned version
```

```
61 POOL_PROPS="\
```

```
62     failmode      autoreplace"
```

```
64 POOL_VALS="\
```

```
65     continue     on"
```

```
67 POOL_ALTVALS="\
```

```
68     panic        off"
```

```
70 export TESTSNAP=testsnap-misc
```

```
71 export TESTCLCT=testclct-misc
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/setup.ksh 1

```
*****
4941 Fri Nov 22 15:19:33 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 # This setup script is moderately complex, as it creates scenarios for all
36 # of the tests included in this directory. Usually we'd want each test case
37 # to setup/teardown it's own configuration, but this would be time consuming
38 # given the nature of these tests. However, as a side-effect, one test
39 # leaving the system in an unknown state could impact other test cases.
40 #
41 #
42 DISK=${DISKS% *}
43 VOLSIZE=150m
44 TESTVOL=testvol
45 #
46 # Create a default setup that includes a volume
47 default_setup_noexit "$DISK" "" "volume"
48 #
49 #
50 # The rest of this setup script creates a ZFS filesystem configuration
51 # that is used to test the rest of the zfs subcommands in this directory.
52 #
53 #
54 # create a snapshot and a clone to test clone promote
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/setup.ksh 2

```
55 log_must $ZFS snapshot $TESTPOOL/$TESTFS@snap
56 log_must $ZFS clone $TESTPOOL/$TESTFS@snap $TESTPOOL/$TESTFS/clone
57 # create a file in the filesystem that isn't in the above snapshot
58 $TOUCH /$TESTDIR/file.txt
59 #
60 #
61 # create a non-default property and a child we can use to test inherit
62 log_must $ZFS create $TESTPOOL/$TESTFS/$TESTFS2
63 log_must $ZFS set snapdir=hidden $TESTPOOL/$TESTFS
64 #
65 #
66 # create an unmounted filesystem to test unmount
67 log_must $ZFS create $TESTPOOL/$TESTFS/$TESTFS2.unmounted
68 log_must $ZFS unmount $TESTPOOL/$TESTFS/$TESTFS2.unmounted
69 #
70 #
71 # send our snapshot to a known file in /tmp
72 $ZFS send $TESTPOOL/$TESTFS@snap > /tmp/zfstest_datastream.dat
73 if [ ! -s /tmp/zfstest_datastream.dat ]
74 then
75     log_fail "ZFS send datafile was not created!"
76 fi
77 log_must $CHMOD 644 /tmp/zfstest_datastream.dat
78 #
79 #
80 # create a filesystem that has particular properties to test set/get
81 log_must $ZFS create -o version=1 $TESTPOOL/$TESTFS/prop
82 set -A props $PROP_NAMES
83 set -A prop_vals $PROP_VALS
84 typeset -i i=0
85 #
86 while [[ $i -lt ${#props[*]} ]]
87 do
88     prop_name=${props[$i]}
89     prop_val=${prop_vals[$i]}
90     log_must $ZFS set $prop_name=$prop_val $TESTPOOL/$TESTFS/prop
91     i=$(( $i + 1 ))
92 done
93 #
94 # create a filesystem we don't mind renaming
95 log_must $ZFS create $TESTPOOL/$TESTFS/renameme
96 #
97 #
98 if is_global_zone
99 then
100     # create a filesystem we can share
101     log_must $ZFS create $TESTPOOL/$TESTFS/unshared
102     log_must $ZFS set sharenfs=off $TESTPOOL/$TESTFS/unshared
103 #
104     # create a filesystem that we can unshare
105     log_must $ZFS create $TESTPOOL/$TESTFS/shared
106     log_must $ZFS set sharenfs=on $TESTPOOL/$TESTFS/shared
107 fi
108 #
109 #
110 log_must $ZFS create -o version=1 $TESTPOOL/$TESTFS/version1
111 log_must $ZFS create -o version=1 $TESTPOOL/$TESTFS/allowed
112 log_must $ZFS allow everyone create $TESTPOOL/$TESTFS/allowed
113 #
114 if is_global_zone
115 then
116     #
117     # Now create several virtual disks to test zpool with
118     #
119     $MKFILE 100m /$TESTDIR/disk1.dat
120     $MKFILE 100m /$TESTDIR/disk2.dat
```

```
121 $MKFILE 100m /$TESTDIR/disk3.dat
122 $MKFILE 100m /$TESTDIR/disk-additional.dat
123 $MKFILE 100m /$TESTDIR/disk-export.dat
124 $MKFILE 100m /$TESTDIR/disk-offline.dat
125 $MKFILE 100m /$TESTDIR/disk-spare1.dat
126 $MKFILE 100m /$TESTDIR/disk-spare2.dat

128 # and create a pool we can perform attach remove replace,
129 # etc. operations with
130 log_must $ZPOOL create $TESTPOOL.virt mirror /$TESTDIR/disk1.dat \
131 /$TESTDIR/disk2.dat /$TESTDIR/disk3.dat /$TESTDIR/disk-offline.dat \
132 spare /$TESTDIR/disk-spare1.dat

135 # Offline one of the disks to test online
136 log_must $ZPOOL offline $TESTPOOL.virt /$TESTDIR/disk-offline.dat

139 # create an exported pool to test import
140 log_must $ZPOOL create $TESTPOOL.exported /$TESTDIR/disk-export.dat
141 log_must $ZPOOL export $TESTPOOL.exported

143 set -A props $POOL_PROPS
144 set -A prop_vals $POOL_VALS
145 typeset -i i=0

147 while [[ $i -lt ${#props[*]} ]]
148 do
149     prop_name=${props[$i]}
150     prop_val=${prop_vals[$i]}
151     log_must $ZPOOL set $prop_name=$prop_val $TESTPOOL
152     i=$(( $i + 1 ))
153 done

155 # copy a v1 pool from cli_root
156 $CP $STF_SUITE/tests/functional/cli_root/zpool_upgrade/blockfiles/zfs-po
157 /$TESTDIR
158 log_must $BUNZIP2 /$TESTDIR/zfs-pool-v1.dat.bz2
159 log_must $ZPOOL import -d /$TESTDIR v1-pool
160 fi
161 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zdb_001_neg.ksh

1

2108 Fri Nov 22 15:19:34 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zdb_001_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zdb can't run as a user on datasets, but can run without arguments
39 #
40 # STRATEGY:
41 # 1. Run zdb as a user, it should print information
42 # 2. Run zdb as a user on different datasets, it should fail
43 #
44 #
45 function check_zdb
46 {
47     $@ > /tmp/zdb.$$
48     $GREP "Dataset mos" /tmp/zdb.$$
49     if [ $? -eq 0 ]
50     then
51         log_fail "$@ exited 0 when run as a non root user!"
52     fi
53     $RM /tmp/zdb.$$
54 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zdb_001_neg.ksh

2

```
57 function cleanup
58 {
59     if [ -e /tmp/zdb_001_neg.$$ .txt ]
60     then
61         $RM /tmp/zdb_001_neg.$$ .txt
62     fi
63 }
64 }
65 #
66 verify_runnable "global"
67 #
68 log_assert "zdb can't run as a user on datasets, but can run without arguments"
69 log_onexit cleanup
70 #
71 log_must eval "$ZDB > /tmp/zdb_001_neg.$$ .txt"
72 # verify the output looks okay
73 log_must $GREP pool_guid /tmp/zdb_001_neg.$$ .txt
74 log_must $RM /tmp/zdb_001_neg.$$ .txt
75 #
76 # we shouldn't be able to run it on any dataset
77 check_zdb $ZDB $TESTPOOL
78 check_zdb $ZDB $TESTPOOL/$TESTFS
79 check_zdb $ZDB $TESTPOOL/$TESTFS@snap
80 check_zdb $ZDB $TESTPOOL/$TESTFS.clone
81 #
82 log_pass "zdb can't run as a user on datasets, but can run without arguments"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_001_neg.ksh 1

```
*****
1554 Fri Nov 22 15:19:34 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
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30 #
31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs shows a usage message when run as a user
39 #
40 # STRATEGY:
41 # 1. Run zfs as a user
42 # 2. Verify it produces a usage message
43 #
44 #
45 function cleanup
46 {
47     if [ -e /tmp/zfs_001_neg.$$txt ]
48     then
49         $RM /tmp/zfs_001_neg.$$txt
50     fi
51 }
52 #
53 log_onexit cleanup
54 log_assert "zfs shows a usage message when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_001_neg.ksh 2

```
56 eval "$ZFS > /tmp/zfs_001_neg.$$txt 2>&1"
57 log_must $GREP "usage: zfs command args" /tmp/zfs_001_neg.$$txt
58 #
59 log_pass "zfs shows a usage message when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_allow_001_neg.ksh 1

```
*****
1953 Fri Nov 22 15:19:35 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_allow_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs allow returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Verify that trying to show allows works as a user
43 # 2. Verify that trying to set allows fails as a user
44 #
45 #
46 #
47 # check to see if we have zfs allow
48 $ZFS 2>&1 | $GREP "allow" > /dev/null
49 if (($? != 0)) then
50     log_unsupported "ZFS allow not supported on this machine."
51 fi
52 #
53 log_assert "zfs allow returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_allow_001_neg.ksh 2

```
55 log_must $ZFS allow $TESTPOOL/$TESTFS
56 log_mustnot $ZFS allow $(($LOGNAME)) create $TESTPOOL/$TESTFS
57 #
58 # now verify that the above command actually did nothing by
59 # checking for any allow output. ( if no allows are granted,
60 # nothing should be output )
61 OUTPUT=$(ZFS allow $TESTPOOL/$TESTFS | $GREP "Local+Descendent" )
62 if [ -n "$OUTPUT" ]
63 then
64     log_fail "zfs allow permissions were granted on $TESTPOOL/$TESTFS"
65 fi
66 #
67 log_pass "zfs allow returns an error when run as a user"
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_clone_001_neg.ksh 1

1576 Fri Nov 22 15:19:35 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_clone_001_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs clone returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Verify that we're unable to clone snapshots as a user
43 #
44 #
45 #
46 log_assert "zfs clone returns an error when run as a user"
47 log_mustnot $ZFS clone $TESTPOOL/$TESTFS@snap $TESTPOOL/$TESTFS.myclone
48 #
49 # check to see that the above command really did nothing
50 if datasetexists $TESTPOOL/$TESTFS.myclone
51 then
52     log_fail "Dataset $TESTPOOL/$TESTFS.myclone should not exist!"
53 fi
54 log_pass "zfs clone returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_clone_001_neg.ksh 2

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_create_001_neg.ksh 1

1698 Fri Nov 22 15:19:35 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_create_001_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 # Executing various badly formed 'zfs create' should fail.
38 #
39 # STRATEGY:
40 # 1. Create an array of badly formed sub-commands.
41 # 2. Execute each element of the array.
42 # 3. Verify an error code is returned.
43 #
44 #
45 verify_runnable "both"
46 #
47 #
48 set -A args "" "create $TESTPOOL/$TESTFS" \
49 "create $TESTPOOL/$TESTFS@$TESTSNAP" \
50 "create $TESTPOOL/$TESTCLCT/$TESTFS" \
51 "create $TESTFS/$TESTPOOL/$TESTCLCT"
52 #
53 log_assert "Verify zfs create without parameters fails."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_create_001_neg.ksh 2

```
55 typeset -i i=0
56 while [[ $i -lt ${#args[*]} ]]; do
57     log_mustnot $ZFS ${args[i]}
58     ((i = i + 1))
59 done
60 #
61 log_pass "The sub-command 'create' fails as non-root."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_destroy_001_neg.ks 1

1943 Fri Nov 22 15:19:36 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_destroy_001_neg.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

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Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 # Verify that 'zfs destroy' fails as non-root.
38 #
39 # STRATEGY:
40 # 1. Create an array of options.
41 # 2. Execute each element of the array.
42 # 3. Verify an error code is returned.
43 #
44 #
45 verify_runnable "both"
46 #
47 #
48 set -A args "destroy" "destroy $TESTPOOL/$TESTFS" \
49 "destroy -f" "destroy -f $TESTPOOL/$TESTFS" \
50 "destroy -r" "destroy -r $TESTPOOL/$TESTFS" \
51 "destroy -rf" "destroy -rf $TESTPOOL/$TESTFS" \
52 "destroy -fr" "destroy -fr $TESTPOOL/$TESTFS" \
53 "destroy $TESTPOOL/$TESTFS@$TESTSNAP" \
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_destroy_001_neg.ks 2

```
54 "destroy -f $TESTPOOL/$TESTFS@$TESTSNAP" \
55 "destroy -r $TESTPOOL/$TESTFS@$TESTSNAP" \
56 "destroy -rf $TESTPOOL/$TESTFS@$TESTSNAP" \
57 "destroy -fr $TESTPOOL/$TESTFS@$TESTSNAP"
58 #
59 log_assert "zfs destroy [-f|-r] [fs|snap]"
60 #
61 typeset -i i=0
62 while [[ $i -lt $#args[*] ]]; do
63     log_mustnot $ZFS ${args[i]}
64     ((i = i + 1))
65 done
66 #
67 log_pass "The sub-command 'destroy' fails as non-root."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_get_001_neg.ksh 1

```
*****
1710 Fri Nov 22 15:19:36 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_get_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs get works when run as a user
39 #
40 # STRATEGY:
41 # 1. Run zfs get with an array of different arguments
42 # 2. Verify for each property, we get the value that's expected
43 #
44 #
45 #
46 log_assert "zfs get works when run as a user"
47 #
48 typeset -i i=0
49 #
50 set -A props $PROP_NAMES
51 set -A prop_vals $PROP_VALS
52 #
53 while [[ $i -lt ${#args[*]} ]]
54 do
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_get_001_neg.ksh 2

```
55     PROP=${props[$i]}
56     EXPECTED=${prop_vals[$i]}
57     ACTUAL=$( $ZFS get $PROP -o value -H snapdir $TESTPOOL/$TESTFS/prop )
58     if [ "$ACTUAL" != "$EXPECTED" ]
59     then
60         log_fail "Property $PROP value was $ACTUAL, expected $EXPECTED"
61     fi
62     i=$(( $i + 1 ))
63 done
64 #
65 log_pass "zfs get works when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_inherit_001_neg.ks 1

1610 Fri Nov 22 15:19:36 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_inherit_001_neg.ks
h

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs inherit returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Verify that we can't inherit a property when running as a user
43 #
44 #
45 #
46 log_assert "zfs inherit returns an error when run as a user"
47 log_mustnot $ZFS inherit snapdir $TESTPOOL/$TESTFS/$TESTFS2
48 #
49 # check to see that the above command really did nothing
50 PROP=$(ZFS get snapdir $TESTPOOL/$TESTFS)
51 if [ "$PROP" = "visible" ]
52 then
53     log_fail "snapdir property inherited from the $TESTPOOL/$TESTFS!"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_inherit_001_neg.ks 2

54 fi

55 log_pass "zfs inherit returns an error when run as a user"

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_mount_001_neg.ksh 1

```
*****
1629 Fri Nov 22 15:19:37 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_mount_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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*****
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs mount returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Verify that we can't mount the unmounted filesystem created in setup
43 #
44 #
45 #
46 log_assert "zfs mount returns an error when run as a user"
47 #
48 log_mustnot $ZFS mount $TESTPOOL/$TESTFS/$TESTFS2.unmounted
49 #
50 # now verify that the above command didn't do anything
51 MOUNTED=$( $MOUNT | $GREP $TESTPOOL/$TESTFS/$TESTFS2.unmounted )
52 if [ -n "$MOUNTED" ]
53 then
54     log_fail "Filesystem $TESTPOOL/$TESTFS/$TESTFS2.unmounted was mounted!"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_mount_001_neg.ksh 2

```
55 fi
57 log_pass "zfs mount returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_promote_001_neg.ks 1

1561 Fri Nov 22 15:19:37 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_promote_001_neg.ks
h

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs promote returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Verify we don't have permissions to promote a clone
43 #
44 #
45 #
46 log_assert "zfs promote returns an error when run as a user"
47 #
48 log_mustnot $ZFS promote $TESTPOOL/$TESTFS/clone
49 #
50 # Now verify that the above command didn't do anything
51 if datasetexists $TESTPOOL/$TESTFS/clone@snap
52 then
53     log_fail "Clone $TESTPOOL/$TESTFS/clone was actually promoted!"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_promote_001_neg.ks 2

54 fi

56 log_pass "zfs promote returns an error when run as a user"

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_receive_001_neg.ks 1

1630 Fri Nov 22 15:19:37 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_receive_001_neg.ks

h
4206 history_003_pos relies on exact size of history log and entries
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs receive returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Attempt to receive a datastream as a user
43 # 2. Verify that the dataset wasn't created
44 #
45 #
46 log_assert "zfs receive returns an error when run as a user"
47 #
48 log_mustnot eval "$ZFS receive -d $TESTPOOL/$TESTFS/$TESTFS2 \
49 < /tmp/zfstest_datastream.dat"
50 #
51 # verify that command actually did nothing
52 #
53 if datasetexists $TESTPOOL/$TESTFS/$TESTFS2/$TESTFS
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_receive_001_neg.ks 2

```
54 then
55     log_fail "$TESTPOOL/$TESTFS/$TESTFS2/$TESTFS was received!"
56 fi
57 #
58 log_pass "zfs receive returns an error when run as a user"
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_rename_001_neg.ksh 1

1617 Fri Nov 22 15:19:38 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_rename_001_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs rename returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to rename a dataset
42 # 2. Verify that the renamed dataset does not exist.
43 #
44 #
45 #
46 log_assert "zfs rename returns an error when run as a user"
47 #
48 log_mustnot $ZFS rename $TESTPOOL/$TESTFS/renameme $TESTPOOL/$TESTFS/renameme1
49 #
50 # now verify the above command didn't actually do anything
51 if datasetexists $TESTPOOL/$TESTFS/renameme1
52 then
53     log_fail "The dataset $TESTPOOL/$TESTFS/renameme was renamed!"
54 fi
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_rename_001_neg.ksh 2

56 log_pass "zfs rename returns an error when run as a user"

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_rollback_001_neg.k 1

1766 Fri Nov 22 15:19:38 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_rollback_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs rollback returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to rollback a snapshot
42 # 2. Verify that a file which doesn't exist in the snapshot still exists
43 #    (showing the snapshot rollback failed)
44 #
45 #
46 #
47 log_assert "zfs rollback returns an error when run as a user"
48 #
49 log_mustnot $ZFS rollback $TESTPOOL/$TESTFS@snap
50 #
51 # now verify the above command didn't actually do anything
52 #
53 # in the above filesystem there's a file that should not exist once
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_rollback_001_neg.k 2

```
54 # the snapshot is rolled back - we check for it
55 if [ ! -e /$TESTDIR/file.txt ]
56 then
57     log_fail "Rollback of snapshot $TESTPOOL/$TESTFS@snap succeeded!"
58 fi
59 #
60 log_pass "zfs rollback returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_send_001_neg.ksh 1

```
*****
1788 Fri Nov 22 15:19:38 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_send_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs send returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to send a dataset to a file
42 # 2. Verify the file created has zero-size
43 #
44 #
45 #
46 function cleanup
47 {
48     if [ -e /tmp/zfstest_datastream.$$ ]
49     then
50         log_must $RM /tmp/zfstest_datastream.$$
51     fi
52 }
53 #
54 log_assert "zfs send returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_send_001_neg.ksh 2

```
55 log_onexit cleanup
56 #
57 log_mustnot eval "$ZFS send $TESTPOOL/$TESTFS@snap > /tmp/zfstest_datastream.$$"
58 #
59 # Now check that the above command actually did nothing
60 #
61 # We should have a non-zero-length file in /tmp
62 if [ -s /tmp/zfstest_datastream.$$ ]
63 then
64     log_fail "A zfs send file was created in /tmp/zfstest_datastream.$$ !"
65 fi
66 #
67 log_pass "zfs send returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_set_001_neg.ksh 1

```
*****
1919 Fri Nov 22 15:19:39 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_set_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs set returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to set an array of properties on a dataset
42 # 2. Verify that those properties were not set and retain their original values.
43 #
44 #
45 #
46 log_assert "zfs set returns an error when run as a user"
47 #
48 typeset -i i=0
49 #
50 set -A props $PROP_NAMES
51 set -A prop_vals $PROP_VALS
52 set -A prop_new $PROP_ALTVALS
53 #
54 while [[ $i -lt ${#args[*]} ]]
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_set_001_neg.ksh 2

```
55 do
56     PROP=${props[$i]}
57     EXPECTED=${prop_vals[$i]}
58     NEW=${prop_new[$i]}
59     log_mustnot $ZFS set $PROP=$NEW $TESTPOOL/$TESTFS/prop
60 #
61 # Now verify that the above command did nothing
62 ACTUAL=$(ZFS get $PROP -o value -H snapdir $TESTPOOL/$TESTFS/prop )
63 if [ "$ACTUAL" != "$EXPECTED" ]
64 then
65     log_fail "Property $PROP was set to $ACTUAL, expected $EXPECTED"
66 fi
67 i=$(( $i + 1 ))
68 done
69 #
70 log_pass "zfs set returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_share_001_neg.ksh 1

1697 Fri Nov 22 15:19:39 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_share_001_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs share returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to share a dataset
42 # 2. Verify the dataset was not shared.
43 #
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "zfs share returns an error when run as a user"
49 #
50 if is_shared $TESTDIR/unshared
51 then
52     log_fail "$TESTPOOL/$TESTFMS/unshared was incorrectly shared initially!"
53 fi
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_share_001_neg.ksh 2

```
55 log_mustnot $ZFS share $TESTPOOL/$TESTFMS/unshared
56 #
57 # Now verify that the above command didn't actually do anything
58 if is_shared $TESTDIR/unshared
59 then
60     log_fail "$TESTPOOL/$TESTFMS/unshared was actually shared!"
61 fi
62 #
63 log_pass "zfs share returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_snapshot_001_neg.k 1

1587 Fri Nov 22 15:19:39 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_snapshot_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs snapshot returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to snapshot a dataset
42 # 2. Verify the snapshot wasn't taken
43 #
44 #
45 #
46 log_assert "zfs snapshot returns an error when run as a user"
47 #
48 log_mustnot $ZFS snapshot $TESTPOOL/$TESTFS@usersnap1
49 #
50 # Now verify that the above command didn't actually do anything
51 if datasetexists $TESTPOOL/$TESTFS@usersnap1
52 then
53     log_fail "Snapshot $TESTPOOL/$TESTFS@usersnap1 was taken !"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_snapshot_001_neg.k 2

54 fi

56 log_pass "zfs snapshot returns an error when run as a user"

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unallow_001_neg.ks 1

1854 Fri Nov 22 15:19:40 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unallow_001_neg.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs unallow returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to unallow a set of permissions
42 # 2. Verify the unallow wasn't performed
43 #
44 #
45 #
46 # check to see if we have zfs unallow
47 $ZFS 2>&1 | $GREP "unallow" > /dev/null
48 if (($? != 0)) then
49     log_unsupported "ZFS unallow not supported on this machine."
50 fi
51 #
52 log_assert "zfs unallow returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unallow_001_neg.ks 2

```
54 log_mustnot $ZFS unallow everyone $TESTPOOL/$TESTFS/allowed
```

```
56 # now check with zfs allow to see if the permissions are still there
57 OUTPUT=$(ZFS allow $TESTPOOL/$TESTFS/allowed | $GREP "Local+Descendent" )
58 if [ -z "$OUTPUT" ]
59 then
60     log_fail "Error - create permissions were unallowed on \
61     $TESTPOOL/$TESTFS/allowed"
62 fi
```

```
64 log_pass "zfs unallow returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unmount_001_neg.ks 1

1981 Fri Nov 22 15:19:40 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unmount_001_neg.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 # Verify that 'zfs umount' and its variants fail as non-root.
38 #
39 # STRATEGY:
40 # 1. Create an array of options.
41 # 2. Execute each element of the array.
42 # 3. Verify that the commands fail with an error code.
43 #
44 #
45 verify_runnable "both"
46 #
47 set -A args "umount" "umount -f" "unmount" "unmount -f" \
48 "umount $TESTPOOL/$TESTFS" "umount -f $TESTPOOL/$TESTFS" \
49 "umount $TESTPOOL/$TESTFS" "unmount -f $TESTPOOL/$TESTFS" \
50 "umount $TESTPOOL/$TESTFS@$TESTSNAP" \
51 "umount -f $TESTPOOL/$TESTFS@$TESTSNAP" \
52 "unmount $TESTPOOL/$TESTFS@$TESTSNAP" \
53 "unmount -f $TESTPOOL/$TESTFS@$TESTSNAP" \
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unmount_001_neg.ks 2

```
54 "umount $TESTDIR" "umount -f $TESTDIR" \
55 "unmount $TESTDIR" "unmount -f $TESTDIR"
56 #
57 log_assert "zfs u[n]mount [-f] [mountpoint|fs|snap]"
58 #
59 typeset -i i=0
60 while [[ $i -lt ${#args[*]} ]]; do
61     log_mustnot $ZFS ${args[i]}
62     ((i = i + 1))
63 done
64 #
65 log_pass "The sub-command 'u[n]mount' fails as non-root."
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unshare_001_neg.ks 1

1749 Fri Nov 22 15:19:41 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unshare_001_neg.ks
h

4206 history_003_pos relies on exact size of history log and entries
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4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs unshare returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to unshare a shared dataset
42 # 2. Verify the dataset is still shared
43 #
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "zfs unshare returns an error when run as a user"
49 #
50 # verify that the filesystem was shared initially
51 if not_shared $TESTDIR/shared
52 then
53     log_fail "$TESTPOOL/$TESTFS/shared was not shared initially at all!"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_unshare_001_neg.ks 2

```
54 fi
55 #
56 log_mustnot $ZFS unshare $TESTPOOL/$TESTFS/shared
57 #
58 # now verify that the above command didn't do anything
59 if not_shared $TESTDIR/shared
60 then
61     log_fail "$TESTPOOL/$TESTFS/shared was actually unshared!"
62 fi
63 #
64 log_pass "zfs unshare returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_upgrade_001_neg.ks 1

1803 Fri Nov 22 15:19:41 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_upgrade_001_neg.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zfs upgrade returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to upgrade a version1 dataset
42 # 2. Verify the dataset wasn't upgraded
43 #
44 #
45 #
46 # check to see if we have upgrade capability
47 $ZFS upgrade > /dev/null 2>&1
48 HAS_UPGRADE=$?
49 if [ $HAS_UPGRADE -ne 0 ]
50 then
51     log_unsupported "Zfs upgrade not supported"
52 fi
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zfs_upgrade_001_neg.ks 2

```
54 log_assert "zfs upgrade returns an error when run as a user"
```

```
57 log_mustnot $ZFS upgrade $TESTPOOL/$TESTFS/version1
```

```
59 # now check to see the above command didn't do anything
60 VERSION=$(($ZFS upgrade $TESTPOOL/$TESTFS/version1 2>&1 \
61 | $GREP "already at this version")
62 if [ -n "$VERSION" ]
63 then
64     log_fail "A filesystem was upgraded!"
65 fi
```

```
67 log_pass "zfs upgrade returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_001_neg.ksh 1

```
*****
1583 Fri Nov 22 15:19:41 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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*****
```

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool shows a usage message when run as a user
39 #
40 # STRATEGY:
41 # 1. Run the zpool command
42 # 2. Verify that a usage message is produced
43 #
44 #
45 #
46 function cleanup
47 {
48     if [ -e /tmp/zpool_001_neg.$$ .txt ]
49     then
50         $RM /tmp/zpool_001_neg.$$ .txt
51     fi
52 }
53 #
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_001_neg.ksh 2

```
55 log_assert "zpool shows a usage message when run as a user"
57 eval "$ZPOOL > /tmp/zpool_001_neg.$$ .txt 2>&1"
58 log_must $GREP "usage: zpool command args" /tmp/zpool_001_neg.$$ .txt
60 log_pass "zpool shows a usage message when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_add_001_neg.ksh 1

```
*****
1928 Fri Nov 22 15:19:42 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_add_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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4209 Populate zfstest with the remainder of the STF tests
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib

35 #
36 # DESCRIPTION:
37 # Verify that 'zpool add' fails as non-root.
38 #
39 # STRATEGY:
40 # 1. Create an array of options.
41 # 2. Execute each element of the array.
42 # 3. Verify that an error is returned.
43 #

45 verify_runnable "global"

47 ADD_DISK="${DISKS% }"
48 ADD_DISK="${ADD_DISK##* }"

50 [[ -z $ADD_DISK ]] && \
51     log_fail "No spare disks available."

53 set -A args "add" "add -f" "add -n" \
54     "add $TESTPOOL" "add -f $TESTPOOL" "add -n $TESTPOOL" \
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_add_001_neg.ksh 2

```
55     "add -fn $TESTPOOL" "add -nf $TESTPOOL" \
56     "add $TESTPOOL $ADD_DISK" "add -f $TESTPOOL $ADD_DISK" \
57     "add -n $TESTPOOL $ADD_DISK" \
58     "add -fn $TESTPOOL $ADD_DISK" \
59     "add -nf $TESTPOOL $ADD_DISK" \

61 log_assert "zpool add [-fn] pool_name vdev"

63 typeset -i i=0
64 while [[ $i -lt ${#args[*]} ]]; do
65     log_mustnot $ZPOOL ${args[i]}
66     ((i = i + 1))
67 done

69 log_pass "The sub-command 'add' and its options fail as non-root."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_attach_001_neg.k 1

1787 Fri Nov 22 15:19:42 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_attach_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool attach returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to attach a disk to a pool
42 # 2. Verify that the attach failed
43 #
44 #
45 #
46 function check_for_attach
47 {
48     RESULT=$(ZPOOL status -v $TESTPOOL.virt | $GREP disk-additional.dat)
49     if [ -n "$RESULT" ]
50     then
51         log_fail "A disk was attached to the pool!"
52     fi
53 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_attach_001_neg.k 2

```
55 verify_runnable "global"
57 log_assert "zpool attach returns an error when run as a user"
59 log_mustnot $ZPOOL attach $TESTPOOL.virt /$TESTDIR/disk1.dat \
60     /$TESTDIR/disk-additional.dat
61 check_for_attach
62 #
63 log_mustnot $ZPOOL attach -f $TESTPOOL.virt /$TESTDIR/disk1.dat \
64     /$TESTDIR/disk-additional.dat
65 check_for_attach
66 #
67 log_pass "zpool attach returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_clear_001_neg.ks 1

1414 Fri Nov 22 15:19:42 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_clear_001_neg.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool clear returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Attempt to clear errors on a zpool
43 # 2. Verify that the command fails
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "zpool clear returns an error when run as a user"
49 #
50 log_mustnot $ZPOOL clear $TESTPOOL
51 #
52 log_pass "zpool clear returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_create_001_neg.k 1

```
*****
1982 Fri Nov 22 15:19:43 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_create_001_neg.k
sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 # Verify that 'zpool create' fails as a non-root user.
38 #
39 # STRATEGY:
40 # 1. Create an array of options.
41 # 2. Execute each element of the array.
42 # 3. Verify that an error is returned.
43 #
44 #
45 verify_runnable "global"
46 #
47 ADD_DISK="${DISKS%% }"
48 ADD_DISK="${ADD_DISK##* }"
49 #
50 [[ -z $ADD_DISK ]] && \
51     log_fail "No spare disks available."
52 #
53 set -A args "create" "create -f" "create -n" \
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_create_001_neg.k 2

```
54 "create $TESTPOOL" "create -f $TESTPOOL" "create -n $TESTPOOL" \
55 "create -fn $TESTPOOL" "create -nf $TESTPOOL" \
56 "create $TESTPOOL $ADD_DISK" "create -f $TESTPOOL $ADD_DISK" \
57 "create -n $TESTPOOL $ADD_DISK" \
58 "create -fn $TESTPOOL $ADD_DISK" \
59 "create -nf $TESTPOOL $ADD_DISK"
60 #
61 log_assert "zpool create [-fn] pool_name vdev"
62 #
63 typeset -i i=0
64 while [[ $i -lt ${#args[*]} ]]; do
65     log_mustnot $ZPOOL ${args[i]}
66     ((i = i + 1))
67 done
68 #
69 log_pass "The sub-command 'create' and its options fail as non-root."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_destroy_001_neg. 1

1623 Fri Nov 22 15:19:43 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_destroy_001_neg.

ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 # Verify that 'zpool destroy' fails as non-root.
38 #
39 # STRATEGY:
40 # 1. Create an array of options.
41 # 2. Execute each element of the array.
42 # 3. Verify an error is returned.
43 #
44 #
45 verify_runnable "global"
46 #
47 set -A args "destroy" "destroy -f" \
48 "destroy $TESTPOOL" "destroy -f $TESTPOOL" \
49 "destroy $TESTPOOL $TESTPOOL"
50 #
51 log_assert "zpool destroy [-f] [pool_name ...]"
52 #
53 typeset -i i=0
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_destroy_001_neg. 2

```
54 while [[ $i -lt ${#args[*]} ]]; do
55     log_mustnot $ZPOOL ${args[i]}
56     ((i = i + 1))
57 done
58 #
59 log_pass "The sub-command 'destroy' and its options fail as non-root."
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_detach_001_neg.k 1

1578 Fri Nov 22 15:19:43 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_detach_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool detach returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Attempt to detach a device from a pool
43 # 2. Verify the command fails
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "zpool detach returns an error when run as a user"
49 #
50 log_mustnot $ZPOOL detach $TESTPOOL.virt /$TESTDIR/disk1.dat
51 #
52 RESULT=$(($ZPOOL status -v $TESTPOOL.virt | $GREP disk1.dat)
53 if [ -z "$RESULT" ]
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_detach_001_neg.k 2

```
54 then
55     log_fail "A disk was detached from the pool!"
56 fi
57 #
58 log_pass "zpool detach returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_export_001_neg.k 1

1629 Fri Nov 22 15:19:44 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_export_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool export returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to export a pool
42 # 2. Verify the command fails
43 #
44 #
45 function check_for_export
46 {
47     RESULT=$(($ZPOOL list | $GREP $TESTPOOL.virt )
48     if [ -z "$RESULT" ]
49     then
50         log_fail "A pool was exported!"
51     fi
52 }
53 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_export_001_neg.k 2

```
55 verify_runnable "global"
57 log_assert "zpool export returns an error when run as a user"
59 log_mustnot $ZPOOL export $TESTPOOL.virt
60 check_for_export
62 log_mustnot $ZPOOL export -f $TESTPOOL.virt
63 check_for_export
65 log_pass "zpool export returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_get_001_neg.ksh 1

```
*****
1747 Fri Nov 22 15:19:44 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_get_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool get works when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. For each property, get that property
43 # 2. Verify the property was the same as that set in setup
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "zpool get works when run as a user"
49 #
50 set -A props $POOL_PROPS
51 set -A prop_vals $POOL_VALS
52 #
53 while [[ $i -lt ${#args[*]} ]]
54 do
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_get_001_neg.ksh 2

```
55 PROP=${props[$i]}
56 EXPECTED=${prop_vals[$i]}
57 ACTUAL=$( $ZPOOL get $PROP $TESTPOOL | $GREP $PROP | $AWK '{print $1}' )
58 if [ "$ACTUAL" != "$EXPECTED" ]
59 then
60     log_fail "Property $PROP value was $ACTUAL, expected $EXPECTED"
61 fi
62 i=$(( $i + 1 ))
63 done
64 #
65 log_must $ZPOOL get all $TESTPOOL
66 #
67 log_pass "zpool get works when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_history_001_neg. 1

1557 Fri Nov 22 15:19:44 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_history_001_neg.

ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool history works when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to get history on a test pool
42 # 2. Verify the command fails
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "zpool history returns an error when run as a user"
48 #
49 log_mustnot $ZPOOL history
50 log_mustnot $ZPOOL history $TESTPOOL
51 log_mustnot $ZPOOL history -i $TESTPOOL
52 log_mustnot $ZPOOL history -l $TESTPOOL
53 log_mustnot $ZPOOL history -il $TESTPOOL
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_history_001_neg. 2

55 log_assert "zpool history returns an error when run as a user"

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_import_001_neg.k 1

1710 Fri Nov 22 15:19:45 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_import_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool import returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to import an exported pool
42 # 2. Verify the command fails
43 #
44 #
45 #
46 function check_for_import
47 {
48     RESULT=$(($ZPOOL list -H -o name | $GREP $TESTPOOL.exported)
49     if [ -n "$RESULT" ]
50     then
51         log_fail "Pool $TESTPOOL.export was successfully imported!"
52     fi
53 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_import_001_neg.k 2

```
55 verify_runnable "global"
57 log_assert "zpool import returns an error when run as a user"
58 log_mustnot $ZPOOL import
59 #
60 log_mustnot $ZPOOL import -a
61 check_for_import
62 #
63 log_mustnot $ZPOOL import -d /$TESTDIR $TESTPOOL.exported
64 check_for_import
65 #
66 log_pass "zpool import returns an error when run as a user"
```

```
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_import_002_neg.k 1
```

```
*****
```

```
1796 Fri Nov 22 15:19:45 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_import_002_neg.k  
sh
```

```
4206 history_003_pos relies on exact size of history log and entries  
4207 history_008_pos depends on obsolete internal history log message  
4208 Typo in zfs_main.c: "posxiuser"
```

```
4209 Populate zfstest with the remainder of the STF tests
```

```
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
```

```
Reviewed by: Will Guyette <will.guyette@delphix.com>
```

```
Reviewed by: Eric Diven <eric.diven@delphix.com>
```

```
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
```

```
*****
```

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg  
33 . $STF_SUITE/include/libtest.shlib  
  
35 #  
36 # DESCRIPTION:  
37 # Executing 'zpool import' as regular user should be denied.  
38 #  
39 # STRATEGY:  
40 # 1. Create an array of options try to detect exported/destroyed pools.  
41 # 2. Execute 'zpool import' with each element of the array by regular user.  
42 # 3. Verify an error code is returned.  
43 #  
  
45 verify_runnable "both"  
  
47 typeset testpool  
48 if is_global_zone ; then  
49     testpool=$TESTPOOL.exported  
50 else  
51     testpool=${TESTPOOL%/*}  
52 fi
```

```
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_import_002_neg.k 2
```

```
54 set -A args "" "-D" "-Df" "-f" "-f $TESTPOOL" "-Df $TESTPOOL" "-a"  
55  
56 log_assert "Executing 'zpool import' by regular user fails"  
  
58 typeset -i i=0  
59 while [[ $i -lt ${#args[*]} ]; do  
60     log_mustnot $ZPOOL import ${args[i]}  
61     ((i = i + 1))  
62 done  
  
64 log_pass "Executing 'zpool import' by regular user fails as expected."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_offline_001_neg. 1

1740 Fri Nov 22 15:19:46 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_offline_001_neg.
ksh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
```

```
35 #
36 # DESCRIPTION:
37 #
38 # zpool offline returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to offline a device in a pool
42 # 2. Verify that the command fails
43 #
44 #
```

```
46 function check_for_offline
47 {
48     RESULT=$(ZPOOL status -v $TESTPOOL.virt | $GREP disk-1.dat \
49         | $GREP OFFLINE )
50     if [ -n "$RESULT" ]
51     then
52         log_fail "A disk was taken offline!"
53     fi
54 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_offline_001_neg. 2

```
54 }
```

```
56 verify_runnable "global"
```

```
58 log_assert "zpool offline returns an error when run as a user"
```

```
60 log_mustnot $ZPOOL offline $TESTPOOL.virt /$TESTDIR/disk-1.dat
61 check_for_offline
```

```
63 log_mustnot $ZPOOL offline -t $TESTPOOL.virt /$TESTDIR/disk-1.dat
```

```
64 check_for_offline
```

```
66 log_pass "zpool offline returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_online_001_neg.k 1

1743 Fri Nov 22 15:19:46 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_online_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
```

```
35 #
36 # DESCRIPTION:
37 #
38 # zpool online returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to online a device in a pool
42 # 2. Verify the command fails
43 #
44 #
```

```
46 function check_for_online
47 {
48     RESULT=$(ZPOOL status -v $TESTPOOL.virt | $GREP disk-offline.dat \
49             | $GREP ONLINE )
50     if [ -n "$RESULT" ]
51     then
52         log_fail "A disk was brought online!"
53     fi
54 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_online_001_neg.k 2

```
54 }
```

```
56 verify_runnable "global"
```

```
58 log_assert "zpool online returns an error when run as a user"
```

```
60 log_mustnot $ZPOOL online $TESTPOOL.virt /$TESTDIR/disk-offline.dat
61 check_for_online
```

```
63 log_mustnot $ZPOOL online -t $TESTPOOL.virt /$TESTDIR/disk-offline.dat
64 check_for_online
```

```
66 log_pass "zpool online returns an error when run as a user"
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_remove_001_neg.k 1

1590 Fri Nov 22 15:19:46 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_remove_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
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```
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
```

```
35 #
36 # DESCRIPTION:
37 #
38 # zpool remove returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to remove a device from a pool
42 # 2. Verify the command fails
43 #
44 #
```

```
46 verify_runnable "global"

48 log_assert "zpool remove returns an error when run as a user"

50 log_mustnot $ZPOOL remove $TESTPOOL.virt /$TESTDIR/disk-spare1.dat

52 RESULT=$(($ZPOOL status -v $TESTPOOL.virt | $GREP disk-spare1.dat)
53 if [ -z "$RESULT" ]
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_remove_001_neg.k 2

```
54 then
55     log_fail "A disk was removed from the pool!"
56 fi
```

```
59 log_pass "zpool remove returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_replace_001_neg. 1

1807 Fri Nov 22 15:19:47 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_replace_001_neg.
ksh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool replace returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to replace a device in a pool
42 # 2. Verify the command fails
43 #
44 #
45 #
46 function check_for_replace
47 {
48     $SLEEP 10
49     RESULT=$(zpool status -v $TESTPOOL.virt | $GREP disk-additional.dat)
50     if [ -n "$RESULT" ]
51     then
52         log_fail "A disk was replaced in the pool!"
53     fi
54 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_replace_001_neg. 2

```
54 }
55 #
56 verify_runnable "global"
57 #
58 log_assert "zpool replace returns an error when run as a user"
59 #
60 log_mustnot $ZPOOL replace $TESTPOOL.virt /$TESTDIR/disk-1.dat \
61 /$TESTDIR/disk-additional.dat
62 check_for_replace
63 #
64 log_mustnot $ZPOOL replace -f $TESTPOOL.virt /$TESTDIR/disk-1.dat \
65 /$TESTDIR/disk-additional.dat
66 check_for_replace
67 #
68 log_pass "zpool replace returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_scrub_001_neg.ks 1

1447 Fri Nov 22 15:19:47 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_scrub_001_neg.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool scrub returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to start a scrub on a pool
42 # 2. Verify the command fails
43 #
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "zpool scrub returns an error when run as a user"
49 #
50 log_mustnot $ZPOOL scrub $TESTPOOL
51 log_mustnot $ZPOOL scrub -s $TESTPOOL
52 #
53 log_pass "zpool scrub returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_scrub_001_neg.ks 2

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_set_001_neg.ksh 1

```
*****
1867 Fri Nov 22 15:19:47 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_set_001_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool set returns an error when run as a user
39 #
40 # STRATEGY:
41 # 1. Attempt to set some properties on a pool
42 # 2. Verify the command fails
43 #
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "zpool set returns an error when run as a user"
49 #
50 set -A props $POOL_NAMES
51 set -A prop_vals $POOL_VALS
52 set -A prop_new $POOL_ALTVALS
53 #
54 while [[ $i -lt $#args[*] ]]
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_set_001_neg.ksh 2

```
55 do
56     PROP=${props[$i]}
57     EXPECTED=${prop_vals[$i]}
58     NEW=${prop_new[$i]}
59     log_mustnot $ZPOOL set $PROP=$NEW $TESTPOOL
60 #
61 # Now verify that the above command did nothing
62 ACTUAL=$( $ZPOOL get $PROP $TESTPOOL | $GREP $PROP | $AWK '{print $1}' )
63 if [ "$ACTUAL" != "$EXPECTED" ]
64 then
65     log_fail "Property $PROP was set to $ACTUAL, expected $EXPECTED"
66 fi
67 i=$(( $i + 1 ))
68 done
69 #
70 #
71 log_pass "zpool set returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_status_001_neg.k 1

1980 Fri Nov 22 15:19:48 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_status_001_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # zpool status works when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Run zpool status as a user
43 # 2. Verify we get output
44 #
45 #
46 function check_pool_status
47 {
48     RESULT=$(GREP "pool:" /tmp/pool-status.$$)
49     if [ -z "$RESULT" ]
50     then
51         log_fail "No pool: string found in zpool status output!"
52     fi
53     $RM /tmp/pool-status.$$
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_status_001_neg.k 2

```
54 }
55 #
56 verify_runnable "global"
57 #
58 log_assert "zpool status works when run as a user"
59 #
60 log_must eval "$ZPOOL status > /tmp/pool-status.$$"
61 check_pool_status
62 #
63 log_must eval "$ZPOOL status -v > /tmp/pool-status.$$"
64 check_pool_status
65 #
66 log_must eval "$ZPOOL status $TESTPOOL > /tmp/pool-status.$$"
67 check_pool_status
68 #
69 log_must eval "$ZPOOL status -v $TESTPOOL > /tmp/pool-status.$$"
70 check_pool_status
71 #
72 # $TESTPOOL.virt has an offline device, so -x will show it
73 log_must eval "$ZPOOL status -x $TESTPOOL.virt > /tmp/pool-status.$$"
74 check_pool_status
75 #
76 log_pass "zpool status works when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_upgrade_001_neg. 1

1776 Fri Nov 22 15:19:48 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_upgrade_001_neg.
ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/tests/functional/cli_user/misc/misc.cfg
33 . $STF_SUITE/include/libtest.shlib
```

```
35 #
36 # DESCRIPTION:
37 #
38 # zpool upgrade returns an error when run as a user
39 #
40 # STRATEGY:
41 #
42 # 1. Attempt to upgrade a pool
43 # 2. Verify the command fails
44 #
```

```
46 verify_runnable "global"
```

```
48 log_assert "zpool upgrade returns an error when run as a user"
```

```
50 log_onexit cleanup
51 # zpool upgrade returns 0 when it can't do anything
52 log_must $ZPOOL upgrade $TESTPOOL.virt
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/misc/zpool_upgrade_001_neg. 2

```
54 # Now try to upgrade our version 1 pool
55 log_mustnot $ZPOOL upgrade v1-pool
```

```
57 # if the pool has been upgraded, then v1-pool won't be listed in the output
58 # of zpool upgrade anymore
59 RESULT=$(ZPOOL upgrade | $GREP v1-pool)
60 if [ -z "$RESULT" ]
61 then
62     log_fail "A pool was upgraded successfully!"
63 fi
```

```
65 log_pass "zpool upgrade returns an error when run as a user"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/Makefile 1

1013 Fri Nov 22 15:19:48 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/cli_user/zfs_list
```

```
21 PROGS = cleanup \
22         setup \
23         zfs_list_001_pos \
24         zfs_list_002_pos \
25         zfs_list_003_pos \
26         zfs_list_004_neg \
27         zfs_list_007_pos \
28         zfs_list_008_neg
```

```
30 FILES = zfs_list.cfg \
31         zfs_list.kshlib
```

```
33 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
34 $(CMDS) := FILEMODE = 0555
```

```
36 all lint clean clobber:
```

```
38 install: $(CMDS)
```

```
40 $(CMDS): $(TESTDIR)
```

```
42 $(TESTDIR):
43     $(INS.dir)
```

```
45 $(TESTDIR)/%: %
46     $(INS.file)
```

```
48 $(TESTDIR)/%: %.ksh
49     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/cleanup.ksh 1

1117 Fri Nov 22 15:19:49 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/cleanup.ksh
4206 history_003_pos relies on exact size of history log and entries
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/cli_root/zfs_get/zfs_get_list_d.kshlib
34 #
35 depth_fs_cleanup
36 default_cleanup
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/setup.ksh 1

```
*****
1983 Fri Nov 22 15:19:49 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/cli_root/zfs_get/zfs_get_list_d.kshlib
34 . $STF_SUITE/tests/functional/cli_user/zfs_list/zfs_list.cfg
35 #
36 DISK=${DISKS%% *}
37 #
38 default_setup_noexit $DISK
39 #
40 # create datasets and set checksum options
41 set -A cksumarray $CKSUMOPTS
42 typeset -i index=0
43 for dataset in $DATASETS
44 do
45     log_must $ZFS create $TESTPOOL/$TESTFS/$dataset
46     $SLEEP 1
47     log_must $ZFS snapshot $TESTPOOL/$TESTFS/${dataset}@snap
48 #
49     $SLEEP 1
50     if is_global_zone ; then
51         log_must $ZFS create -V 64M $TESTPOOL/$TESTFS/${dataset}-vol
52         $SLEEP 1
53         log_must $ZFS snapshot $TESTPOOL/$TESTFS/${dataset}-vol@snap
54     fi
55 done
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/setup.ksh 2

```
56     # sleep to ensure that the datasets have different creation dates
57     $SLEEP 1
58     log_must $ZFS set checksum=${cksumarray[$index]} \
59         $TESTPOOL/$TESTFS/$dataset
60     if datasetexists $TESTPOOL/$TESTFS/${dataset}-vol; then
61         log_must $ZFS set checksum=${cksumarray[$index]} \
62             $TESTPOOL/$TESTFS/${dataset}-vol
63     fi
64 #
65     index=$((index + 1))
66 done
67 #
68 depth_fs_setup
69 #
70 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list.cfg 1

1237 Fri Nov 22 15:19:49 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list.cfg

4206 history_003_pos relies on exact size of history log and entries

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29 #
30 #
31 # Datasets (in order of creation date) and which checksum options
32 # we want to set for each dataset.
33 # These are used by various zfs list tests
34 export DATASETS="Apple Banana Carrot Orange apple banana carrot"
35 export CKSUMOPTS="on sha256 sha256 sha256 fletcher4 off fletcher2"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list.kshlib 1

```
*****
3180 Fri Nov 22 15:19:50 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 #
34 # A function that verifies sort order. It takes as input
35 # a command, which gets executed. We then iterate over the results
36 # comparing that the sort order passed in via the list
37 #
38 function verify_sort { # command list name
39
40     # now verify we've sorted by creation date:
41     typeset CMD=$1
42     typeset list=$2
43     typeset name=$3
44
45     typeset -i RET=0
46     typeset -i index=1
47
48     # run the command to verify that it works
49     log_must eval "$CMD > /dev/null"
50
51     # Now check the sort order
52     for dataset in $( $CMD )
53     do
54         ACTUAL=$(basename $dataset)
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list.kshlib 2

```
55         if [ "$dataset" != "$TESTPOOL/$TESTFS" ]
56         then
57             EXPECTED=$(($ECHO $list | $AWK "{print \$$index}")
58             if [ "$ACTUAL" != "$EXPECTED" ]
59             then
60                 log_note "WARNING: " \
61                     "'$ACTUAL' does not equal '$EXPECTED'"
62                 log_fail "ERROR: Sort by $name fails."
63             fi
64
65             ((index = index + 1))
66         fi
67     done
68
69     # finally check to see if we have the expected number of elements
70     if [ $index -ne $(($ECHO $list | $AWK '{print split($0,arr)+1}') ) ]
71     then
72         log_fail "Warning: " \
73             "unexpected number of filesystems found in list output!"
74     fi
75 }
76
77 # A function that verifies reverse sort order. It takes as input
78 # a command, which gets executed. We then iterate over the results
79 # comparing that the sort order passed in via the list
80 #
81 function verify_reverse_sort { # command list name
82
83     typeset CMD=$1
84     typeset list=$2
85     typeset name=$3
86
87     # set our index to the be number of elements in the list
88     typeset -i index=$(($ECHO $list | $AWK '{print split($0,arr)}')
89
90     log_note "Checking reverse sort by '$name'," \
91         "expecting the reverse of '$list'"
92     log_must eval "$CMD > /dev/null"
93
94     for dataset in $( $CMD )
95     do
96         ACTUAL=$(basename $dataset)
97         if [ "$dataset" != "$TESTPOOL/$TESTFS" ]
98         then
99             EXPECTED=$(($ECHO $list | $AWK "{print \$$index}")
100             if [ "$ACTUAL" != "$EXPECTED" ]
101             then
102                 log_note "Warning: " \
103                     "'$ACTUAL' does not equal to" \
104                     "the reverse of '$EXPECTED'"
105                 log_fail "ERROR: Reverse sort by '$name' fails."
106             fi
107
108             ((index = index - 1))
109         fi
110     done
111
112     # finally check to see if we have the expected number of elements
113     if [ $index -ne 0 ]
114     then
115         log_fail "Warning: " \
116             "unexpected number of filesystems found in list output!"
117     fi
118 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_001_pos.k 1

3243 Fri Nov 22 15:19:50 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_001_pos.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/cli_root/zfs_get/zfs_get_list_d.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Executing well-formed 'zfs list' commands should return success.
38 #
39 # STRATEGY:
40 # 1. Create an array of valid options.
41 # 2. Execute each element in the array.
42 # 3. Verify success is returned.
43 #
44 #
45 verify_runnable "both"
46 #
47 set -A args "list" "list -r" "list -H" \
48 "list $TESTPOOL/$TESTFS" \
49 "list -r $TESTPOOL/$TESTFS" "list -H $TESTPOOL/$TESTFS" \
50 "list -rH $TESTPOOL/$TESTFS" "list -Hr $TESTPOOL/$TESTFS" \
51 "list -o name $TESTPOOL/$TESTFS" "list -r -o name $TESTPOOL/$TESTFS" \
52 "list -H -o name $TESTPOOL/$TESTFS" "list -rH -o name $TESTPOOL/$TESTFS" \
53 "list -Hr -o name $TESTPOOL/$TESTFS"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_001_pos.k 2

```
55 set -A d_args " " "-r" "-H" \
56 "$TESTPOOL/$TESTFS" \
57 "-r $TESTPOOL/$TESTFS" "-H $TESTPOOL/$TESTFS" \
58 "-rH $TESTPOOL/$TESTFS" "-Hr $TESTPOOL/$TESTFS" \
59 "-o name $TESTPOOL/$TESTFS" "-r -o name $TESTPOOL/$TESTFS" \
60 "-H -o name $TESTPOOL/$TESTFS" "-rH -o name $TESTPOOL/$TESTFS" \
61 "-Hr -o name $TESTPOOL/$TESTFS"
62 #
63 typeset -i m=${#args[*]}
64 typeset -i n=0
65 typeset -i k=0
66 while (( n<${#depth_options[*]} ));
67 do
68     (( k=0 ))
69     while (( k<${#d_args[*]} ));
70     do
71         args[$m]="list" -${depth_options[$n]}" ${d_args[$k]}"
72         (( k+=1 ))
73         (( m+=1 ))
74     done
75     (( n+=1 ))
76 done
77 #
78 set -A pathargs "list -r $TESTDIR" "list -H $TESTDIR" \
79 "list -r ../$TESTDIR" "list -H ../$TESTDIR"
80 #
81 set -A d_pathargs " $TESTDIR" "-r $TESTDIR" "-H $TESTDIR" \
82 "-r ../$TESTDIR" "-H ../$TESTDIR"
83 #
84 (( m=${#pathargs[*]} ))
85 (( n=0 ))
86 (( k=0 ))
87 while (( n<${#depth_options[*]} ));
88 do
89     (( k=0 ))
90     while (( k<${#d_pathargs[*]} ));
91     do
92         pathargs[$m]="list" -${depth_options[$n]}" ${d_pathargs[$k]}"
93         (( k+=1 ))
94         (( m+=1 ))
95     done
96     (( n+=1 ))
97 done
98 #
99 log_assert "Verify 'zfs list [-rH] [-o property[,prop]*] [fs|clct|vol]'."
100 #
101 typeset -i i=0
102 while [[ $i -lt ${#args[*]} ]]; do
103     log_must eval "$ZFS ${args[i]} > /dev/null"
104     (( i = i + 1 ))
105 done
106 #
107 # Verify 'zfs list <path>' will succeed on absolute or relative path.
108 #
109 cd /tmp
110 typeset -i i=0
111 while [[ $i -lt ${#pathargs[*]} ]]; do
112     log_must eval "$ZFS ${pathargs[i]} > /dev/null"
113     (( i = i + 1 ))
114 done
115 #
116 log_pass "The sub-command 'list' succeeds as non-root."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_002_pos.k 1

```
*****
5775 Fri Nov 22 15:19:50 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_002_pos.k
sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/tests/functional/cli_user/zfs_list/zfs_list.kshlib
33 #
34 #
35 # DESCRIPTION:
36 # The sort functionality in 'zfs list' works as expected.
37 #
38 # STRATEGY:
39 # 1. Using several zfs datasets with names, creation dates, checksum options
40 # 2. Sort the datasets by name, checksum options, creation date.
41 # 3. Verify that the datasets are sorted correctly.
42 #
43 #
44 verify_runnable "both"
45 #
46 # datasets ordered by name
47 fs_name="Apple Banana Carrot Orange apple banana carrot"
48 vol_name="Apple-vol Banana-vol Carrot-vol Orange-vol apple-vol"
49 vol_name="$vol_name banana-vol carrot-vol"
50 if is_global_zone ; then
51     snap_name="Apple-vol@snap Apple@snap Banana-vol@snap Banana@snap"
52     snap_name="$snap_name Carrot-vol@snap Carrot@snap Orange-vol@snap Orange"
53     snap_name="$snap_name apple-vol@snap apple@snap banana-vol@snap banana@snap"

```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_002_pos.k 2

```
54     snap_name="$snap_name carrot-vol@snap carrot@snap"
55 else
56     snap_name="Apple@snap Banana@snap"
57     snap_name="$snap_name Carrot@snap Orange@snap"
58     snap_name="$snap_name apple@snap banana@snap"
59     snap_name="$snap_name carrot@snap"
60 fi
61 #
62 fs_creation=$fs_name
63 vol_creation=$vol_name
64 if is_global_zone ; then
65     snap_creation="Apple@snap Apple-vol@snap Banana@snap Banana-vol@snap"
66     snap_creation="$snap_creation Carrot@snap Carrot-vol@snap Orange@snap Or"
67     snap_creation="$snap_creation apple@snap apple-vol@snap banana@snap bana"
68     snap_creation="$snap_creation carrot@snap carrot-vol@snap"
69 else
70     snap_creation="Apple@snap Banana@snap"
71     snap_creation="$snap_creation Carrot@snap Orange@snap"
72     snap_creation="$snap_creation apple@snap banana@snap"
73     snap_creation="$snap_creation carrot@snap"
74 fi
75 #
76 #
77 # datasets ordered by checksum options (note, Orange, Carrot & Banana have the
78 # same checksum options, so ZFS should revert to sorting them alphabetically by
79 # name)
80 #
81 fs_cksum="carrot apple banana Apple Banana Carrot Orange"
82 vol_cksum="carrot-vol apple-vol banana-vol Apple-vol Banana-vol"
83 vol_cksum="$vol_cksum Carrot-vol Orange-vol"
84 snap_cksum="$snap_creation
85
86 fs_rev_cksum="carrot apple banana Apple Orange Carrot Banana"
87 vol_rev_cksum="carrot-vol apple-vol banana-vol Apple-vol Orange-vol"
88 vol_rev_cksum="$vol_rev_cksum Carrot-vol Banana-vol"
89 #
90 log_assert "The sort functionality in 'zfs list' works as expected."
91 #
92 #
93 # we must be in the C locale here, as running in other locales
94 # will make zfs use that locale's sort order.
95 #
96 LC_ALL=C; export LC_ALL
97 #
98 # sort by creation
99 verify_sort \
100     "$ZFS list -H -r -o name -s creation -t filesystem $TESTPOOL/$TESTFS" \
101     "$fs_creation" "creation date"
102 if is_global_zone ; then
103     verify_sort \
104     "$ZFS list -H -r -o name -s creation -t volume $TESTPOOL/$TESTFS" \
105     "$vol_creation" "creation date"
106 fi
107 verify_sort \
108     "$ZFS list -H -r -o name -s creation -t snapshot $TESTPOOL/$TESTFS" \
109     "$snap_creation" "creation date"
110 #
111 # sort by checksum
112 verify_sort \
113     "$ZFS list -H -r -o name -s checksum -t filesystem $TESTPOOL/$TESTFS" \
114     "$fs_cksum" "checksum"
115 if is_global_zone ; then
116     verify_sort \
117     "$ZFS list -H -r -o name -s checksum -t volume $TESTPOOL/$TESTFS" \
118     "$vol_cksum" "checksum"
119 fi

```

```
120 verify_sort \  
121     "$ZFS list -H -r -o name -s checksum -t snapshot $TESTPOOL/$TESTFS" \  
122     "$snap_cksum" "checksum" \  
123 verify_sort \  
124     "$ZFS list -H -r -o name -S checksum -t snapshot $TESTPOOL/$TESTFS" \  
125     "$snap_cksum" "checksum" \  
  
127 # sort by name \  
128 verify_sort \  
129     "$ZFS list -H -r -o name -s name -t filesystem $TESTPOOL/$TESTFS" \  
130     "$fs_name" "name" \  
131 if is_global_zone ; then \  
132     verify_sort \  
133     "$ZFS list -H -r -o name -s name -t volume $TESTPOOL/$TESTFS" \  
134     "$vol_name" "name" \  
135 fi \  
136 verify_sort \  
137     "$ZFS list -H -r -o name -s name -t snapshot $TESTPOOL/$TESTFS" \  
138     "$snap_name" "name" \  
  
140 # reverse sort by creation \  
141 verify_reverse_sort \  
142     "$ZFS list -H -r -o name -S creation -t filesystem $TESTPOOL/$TESTFS" \  
143     "$fs_creation" "creation date" \  
144 if is_global_zone ; then \  
145     verify_reverse_sort \  
146     "$ZFS list -H -r -o name -S creation -t volume $TESTPOOL/$TESTFS" \  
147     "$vol_creation" "creation date" \  
148 fi \  
149 verify_reverse_sort \  
150     "$ZFS list -H -r -o name -S creation -t snapshot $TESTPOOL/$TESTFS" \  
151     "$snap_creation" "creation date" \  
  
153 # reverse sort by checksum \  
154 verify_reverse_sort \  
155     "$ZFS list -H -r -o name -S checksum -t filesystem $TESTPOOL/$TESTFS" \  
156     "$fs_rev_cksum" "checksum" \  
157 if is_global_zone ; then \  
158     verify_reverse_sort \  
159     "$ZFS list -H -r -o name -S checksum -t volume $TESTPOOL/$TESTFS" \  
160     "$vol_rev_cksum" "checksum" \  
161 fi \  
  
163 # reverse sort by name \  
164 verify_reverse_sort \  
165     "$ZFS list -H -r -o name -S name -t filesystem $TESTPOOL/$TESTFS" \  
166     "$fs_name" "name" \  
167 if is_global_zone ; then \  
168     verify_reverse_sort \  
169     "$ZFS list -H -r -o name -S name -t volume $TESTPOOL/$TESTFS" \  
170     "$vol_name" "name" \  
171 fi \  
172 verify_reverse_sort \  
173     "$ZFS list -H -r -o name -S name -t snapshot $TESTPOOL/$TESTFS" \  
174     "$snap_name" "name" \  
  
176 log_pass "The sort functionality in 'zfs list' works as expected."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_003_pos.k 1

1936 Fri Nov 22 15:19:51 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_003_pos.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

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```

```
32 . $STF_SUITE/include/libtest.shlib
```

```
34 #
35 # DESCRIPTION:
36 #   Verify 'zfs list -r' could recursively display any children
37 #   of the dataset.
38 #
39 # STRATEGY:
40 # 1. Prepare a set of datasets by hierarchy.
41 # 2. Execute 'zfs list -r' at the top of these datasets.
42 # 3. Verify all child datasets are all be shown.
43 #
```

```
45 function cleanup
46 {
47     if [[ -f $tmpfile ]]; then
48         $RM -f $tmpfile
49     fi
50 }
```

```
52 verify_runnable "both"
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_003_pos.k 2

```
55 log_assert "Verify 'zfs list -r' could display any children recursively."
```

```
57 tmpfile=/var/tmp/zfslist.out.$$
58 children="$TESTPOOL/$TESTFS"
```

```
60 for fs in $DATASETS ; do
61     children="$children $TESTPOOL/$TESTFS/$fs"
62 done
```

```
64 cd /tmp
```

```
66 for path in $TESTPOOL/$TESTFS $TESTDIR ../$TESTDIR ; do
67     $ZFS list -rH -o name $path > $tmpfile
68     for fs in $children ; do
69         $GREP "^{$fs}$" $tmpfile > /dev/null 2>&1
70         if (( $? != 0 )); then
71             log_fail "$fs not shown in the output list."
72         fi
73     done
74 done
```

```
76 log_pass "'zfs list -r' could display any children recursively."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_004_neg.k 1

1784 Fri Nov 22 15:19:51 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_004_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify 'zfs list [-r]' should fail while
37 #     * the given dataset does not exist
38 #     * the given path does not exist.
39 #     * the given path does not belong to zfs.
40 #
41 # STRATEGY:
42 # 1. Create an array of invalid options.
43 # 2. Execute each element in the array.
44 # 3. Verify failure is returned.
45 #
46 #
47 verify_runnable "both"
48 #
49 log_assert "Verify 'zfs list [-r]' should fail while the given " \
50     "dataset/path does not exist or not belong to zfs."
51 #
52 paths="$STESTPOOL/NONEXISTFS $STESTPOOL/$STESTFS/NONEXISTFS \
53     /$STESTDIR/NONEXISTFS /devices /tmp ../../devices ../../tmp"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_004_neg.k 2

```
55 cd /tmp
```

```
57 for fs in $paths ; do
```

```
58     log_mustnot $ZFS list $fs
```

```
59     log_mustnot $ZFS list -r $fs
```

```
60 done
```

```
62 log_pass "'zfs list [-r]' fails while the given dataset/path does not exist " \
```

```
63     "or not belong to zfs."
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_007_pos.k 1

2660 Fri Nov 22 15:19:52 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_007_pos.k
sh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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```
28 #
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```

32 . \$STF_SUITE/tests/functional/cli_root/zfs_get/zfs_get_list_d.kshlib

```
34 #
35 # DESCRIPTION:
36 #     'zfs list -d <n>' should get expected output.
37 #
38 # STRATEGY:
39 #     1. 'zfs list -d <n>' to get the output.
40 #     2. 'zfs list -r|egrep' to get the expected output.
41 #     3. Compare the two outputs, they should be same.
42 #
```

44 verify_runnable "both"

```
46 set -A fs_type "all" "filesystem" "snapshot"
47 if is_global_zone ; then
48     set -A fs_type ${fs_type[*]} "volume"
49 fi
```

```
51 function cleanup
52 {
53     log_must $RM -f $DEPTH_OUTPUT
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_007_pos.k 2

```
54     log_must $RM -f $EXPECT_OUTPUT
55 }
```

```
57 log_onexit cleanup
58 log_assert "'zfs list -d <n>' should get expected output."
```

```
60 mntpnt=/var/tmp
61 DEPTH_OUTPUT="$mntpnt/depth_output"
62 EXPECT_OUTPUT="$mntpnt/expect_output"
63 typeset -i old_val=0
64 typeset -i j=0
65 typeset -i fs=0
66 typeset eg_opt="$DEPTH_FS"$
67 for dp in ${depth_array[@]}; do
68     (( j=old_val+1 ))
69     while (( j<=dp && j<=MAX_DEPTH )); do
70         eg_opt="$eg_opt"|depth"$j"$
71         (( j+=1 ))
72     done
73     (( fs=0 ))
74     while (( fs<${#fs_type[*]} )); do
75         if [[ "$dp" == "0" ]] && \
76             [[ "${fs_type[$fs]}" == "volume" || "${fs_type[$fs]}" == "snap"
77                 log_must eval "$ZFS list -H -d $dp -o name -t ${fs_type[
78                 [[ -s "$DEPTH_OUTPUT" ]] && \
79                     log_fail "$DEPTH_OUTPUT should be null."
80                 log_mustnot $ZFS list -rH -o name -t ${fs_type[$fs]} $DE
81             else
82                 log_must eval "$ZFS list -H -d $dp -o name -t ${fs_type[
83                 log_must eval "$ZFS list -rH -o name -t ${fs_type[$fs]}
84                 log_must $DIFF $DEPTH_OUTPUT $EXPECT_OUTPUT
85             fi
86             (( fs+=1 ))
87         done
88         (( old_val=dp ))
89 done
```

```
91 log_pass "'zfs list -d <n>' should get expected output."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_008_neg.k 1

1663 Fri Nov 22 15:19:52 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_008_neg.k
sh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/tests/functional/cli_root/zfs_get/zfs_get_list_d.kshlib
33 #
34 #
35 # DESCRIPTION:
36 # A negative depth or a non numeric depth should fail in 'zfs list -d <n>'
37 #
38 # STRATEGY:
39 # 1. Run zfs list -d with negative depth or non numeric depth
40 # 2. Verify that zfs list returns error
41 #
42 #
43 verify_runnable "both"
44 #
45 log_assert "A negative depth or a non numeric depth should fail in 'zfs list -d
46 #
47 set -A badargs "a" "AB" "aBc" "2A" "a2b" "aB2" "-1" "-32" "-999"
48 #
49 typeset -i i=0
50 while (( i < ${#badargs[*]} ))
51 do
52     log_mustnot eval "$ZFS list -d ${badargs[i]} $DEPTH_FS >/dev/null 2>&1"
53     (( i = i + 1 ))
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zfs_list/zfs_list_008_neg.k 2

54 done

56 log_pass "A negative depth or a non numeric depth should fail in 'zfs list -d <n>'

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/Makefile 1

```
*****
904 Fri Nov 22 15:19:52 2013
new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/cli_user/zpool_iostat
20 #
21 PROGS = cleanup \
22         setup \
23         zpool_iostat_001_neg \
24         zpool_iostat_002_pos \
25         zpool_iostat_003_neg
26 #
27 CMDS = $(PROGS:%=$(TESTDIR)/%)
28 $(CMDS) := FILEMODE = 0555
29 #
30 all lint clean clobber:
31 #
32 install: $(CMDS)
33 #
34 $(CMDS): $(TESTDIR)
35 #
36 $(TESTDIR):
37     $(INS.dir)
38 #
39 $(TESTDIR)/%: %
40     $(INS.file)
41 #
42 $(TESTDIR)/%: %.ksh
43     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/cleanup.ksh 1

1031 Fri Nov 22 15:19:53 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/setup.ksh 1

1054 Fri Nov 22 15:19:53 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0 1

1589 Fri Nov 22 15:19:53 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0
01_neg.ksh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Verify that 'zpool iostat' can be executed as non-root.
37 #
38 # STRATEGY:
39 # 1. Create an array of options.
40 # 2. Execute each element of the array.
41 # 3. Verify that a success is returned.
42 #
43 #
44 verify_runnable "both"
45 #
46 typeset testpool
47 if is_global_zone ; then
48     testpool=$TESTPOOL
49 else
50     testpool=${TESTPOOL%/*}
51 fi
52 #
53 set -A args "iostat" "iostat $testpool"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0 2

```
55 log_assert "zpool iostat [pool_name ...] [interval]"
56 #
57 typeset -i i=0
58 while [[ $i -lt ${#args[*]} ]]; do
59     log_must $ZPOOL ${args[i]}
60     ((i = i + 1))
61 done
62 #
63 log_pass "The sub-command 'iostat' succeeds as non-root."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0 1

1803 Fri Nov 22 15:19:54 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0

02_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Verify that 'zpool iostat [interval [count]]' can be executed as non-root.
37 #
38 # STRATEGY:
39 # 1. Set the interval to 1 and count to 4.
40 # 2. Sleep for 4 seconds.
41 # 3. Verify that the output has 4 records.
42 #
43 #
44 verify_runnable "both"
45 #
46 typeset tmpfile=/var/tmp/zfsiostat.out.$$
47 typeset -i stat_count=0
48 #
49 function cleanup
50 {
51     if [[ -f $tmpfile ]]; then
52         $RM -f $tmpfile
53     fi
54 }
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0 2

```
54 }
55 #
56 log_onexit cleanup
57 log_assert "zpool iostat [pool_name ...] [interval] [count]"
58 #
59 if ! is_global_zone ; then
60     TESTPOOL=${TESTPOOL%/*}
61 fi
62 #
63 $ZPOOL iostat $TESTPOOL 1 4 > $tmpfile 2>&1 &
64 sleep 4
65 stat_count=$(($GREP $TESTPOOL $tmpfile | $WC -l)
66 #
67 if [[ $stat_count -ne 4 ]]; then
68     log_fail "zpool iostat [pool_name] [interval] [count] failed"
69 fi
70 #
71 log_pass "zpool iostat [pool_name ...] [interval] [count] passed"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0 1

1754 Fri Nov 22 15:19:54 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0
03 neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Executing 'zpool iostat' command with bad options fails.
37 #
38 # STRATEGY:
39 # 1. Create an array of badly formed 'zpool iostat' options.
40 # 2. Execute each element of the array.
41 # 3. Verify an error code is returned.
42 #
43 #
44 verify_runnable "both"
45 #
46 typeset testpool
47 if is_global_zone ; then
48     testpool=$TESTPOOL
49 else
50     testpool=${TESTPOOL%/*}
51 fi
52 #
53 set -A args "" "-?" "-f" "nonexistpool" "$TESTPOOL/$TESTFS" \
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_iostat/zpool_iostat_0 2

```
54 "$testpool 1.23" "$testpool 0" "$testpool -1" "$testpool 1 0" \
55 "$testpool 0 0"
```

```
57 log_assert "Executing 'zpool iostat' with bad options fails"
```

```
59 typeset -i i=1
60 while [[ $i -lt $#args[*] ]]; do
61     log_mustnot $ZPOOL iostat ${args[i]}
62     ((i = i + 1))
63 done
```

```
65 log_pass "Executing 'zpool iostat' with bad options fails"
```


new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/Makefile

1

874 Fri Nov 22 15:19:54 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/cli_user/zpool_list
```

```
21 PROGS = cleanup \
22         setup \
23         zpool_list_001_pos \
24         zpool_list_002_neg
```

```
26 CMDS = $(PROGS:%=$(TESTDIR)/%)
27 $(CMDS) := FILEMODE = 0555
```

```
29 all lint clean clobber:
```

```
31 install: $(CMDS)
```

```
33 $(CMDS): $(TESTDIR)
```

```
35 $(TESTDIR):
36     $(INS.dir)
```

```
38 $(TESTDIR)/%: %
39     $(INS.file)
```

```
41 $(TESTDIR)/%: %.ksh
42     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/cleanup.ksh 1

1031 Fri Nov 22 15:19:55 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/setup.ksh 1

1054 Fri Nov 22 15:19:55 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_001_p 1

1754 Fri Nov 22 15:19:55 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_001_p
os.ksh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Verify that 'zpool list' succeeds as non-root.
37 #
38 # STRATEGY:
39 # 1. Create an array of options.
40 # 2. Execute each element of the array.
41 # 3. Verify the command succeeds.
42 #
43 #
44 verify_runnable "both"
45 #
46 if ! is_global_zone; then
47     TESTPOOL=${TESTPOOL%/*}
48 fi
49 #
50 set -A args "list $TESTPOOL" "list -H $TESTPOOL" "list" "list -H" \
51 "list -H -o name $TESTPOOL" "list -o name $TESTPOOL" \
52 "list -o name,size,capacity,health,altroot $TESTPOOL" \
53 "list -H -o name,size,capacity,health,altroot $TESTPOOL"
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_001_p 2

```
55 log_assert "zpool list [-H] [-o filed[,filed]*] [<pool_name> ...]"
56 #
57 typeset -i i=0
58 while [[ $i -lt ${#args[*]} ]]; do
59     log_must $ZPOOL ${args[i]}
60     i=$((i + 1))
61 done
62 #
63 #
64 log_pass "The sub-command 'list' succeeds as non-root."
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_002_n 1

1568 Fri Nov 22 15:19:56 2013

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_002_n
eg.ksh

4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Executing 'zpool list' command with bad options fails.
37 #
38 # STRATEGY:
39 # 1. Create an array of badly formed 'zpool list' options.
40 # 2. Execute each element of the array.
41 # 3. Verify an error code is returned.
42 #
43 #
44 verify_runnable "both"
45 #
46 set -A args "" "-?" "-f" "-o" \
47     "-o fakeproperty" "-o name,size,fakeproperty"
48 #
49 log_assert "Executing 'zpool list' with bad options fails"
50 #
51 typeset -i i=1
52 while [[ $i -lt ${#args[*]} ]]; do
53     log_mustnot $ZPOOL list ${args[i]}
```

new/usr/src/test/zfs-tests/tests/functional/cli_user/zpool_list/zpool_list_002_n 2

54 ((i = i + 1))

55 done

57 log_pass "Executing 'zpool list' with bad options fails"

new/usr/src/test/zfs-tests/tests/functional/compression/Makefile

1

948 Fri Nov 22 15:19:56 2013

new/usr/src/test/zfs-tests/tests/functional/compression/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/compression
```

```
21 PROGS = cleanup \
22         setup \
23         compress_001_pos \
24         compress_002_pos \
25         compress_003_pos \
26         compress_004_pos
```

```
28 FILES = compress.cfg
```

```
30 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
31 $(CMDS) := FILEMODE = 0555
```

```
33 all lint clean clobber:
```

```
35 install: $(CMDS)
```

```
37 $(CMDS): $(TESTDIR)
```

```
39 $(TESTDIR):
```

```
40     $(INS.dir)
```

```
42 $(TESTDIR)/%: %.ksh
```

```
43     $(INS.rename)
```

```
45 $(TESTDIR)/%: %
```

```
46     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/compression/cleanup.ksh

1

1043 Fri Nov 22 15:19:56 2013

new/usr/src/test/zfs-tests/tests/functional/compression/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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30 #
31 #
32 . ${STF_SUITE}/include/libtest.shlib
33 #
34 default_container_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/compression/compress.cfg

1

1020 Fri Nov 22 15:19:57 2013

new/usr/src/test/zfs-tests/tests/functional/compression/compress.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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29 #
30 #
31 export BLOCKSZ=8192
32 export NUM_WRITES=65536
33 export DATA=13
```


new/usr/src/test/zfs-tests/tests/functional/compression/compress_001_pos.ksh 1

```
*****
2245 Fri Nov 22 15:19:57 2013
new/usr/src/test/zfs-tests/tests/functional/compression/compress_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/compression/compress.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Create two files of exactly the same size. One with compression
38 # and one without. Ensure the compressed file is smaller.
39 #
40 # STRATEGY:
41 # Use "zfs set" to turn on compression and create files before
42 # and after the set call. The compressed file should be smaller.
43 #
44 #
45 verify_runnable "both"
46 #
47 typeset OP=create
48 #
49 log_assert "Ensure that compressed files are smaller."
50 #
51 log_note "Ensure compression is off"
52 log_must $ZFS set compression=off $TESTPOOL/$TESTFS
53 #
54 log_note "Writing file without compression..."
```

new/usr/src/test/zfs-tests/tests/functional/compression/compress_001_pos.ksh 2

```
55 log_must $FILE_WRITE -o $OP -f $TESTDIR/$TESTFILE0 -b $BLOCKSZ \
56 -c $NUM_WRITES -d $DATA
57 #
58 log_note "Add compression property to the dataset and write another file"
59 log_must $ZFS set compression=on $TESTPOOL/$TESTFS
60 #
61 log_must $FILE_WRITE -o $OP -f $TESTDIR/$TESTFILE1 -b $BLOCKSZ \
62 -c $NUM_WRITES -d $DATA
63 #
64 $SLEEP 60
65 #
66 FILE0_BLKs='$DU -k $TESTDIR/$TESTFILE0 | $AWK '{ print $1}''
67 FILE1_BLKs='$DU -k $TESTDIR/$TESTFILE1 | $AWK '{ print $1}''
68 #
69 if [[ $FILE0_BLKs -le $FILE1_BLKs ]]; then
70     log_fail "$TESTFILE0 is smaller than $TESTFILE1" \
71         "($FILE0_BLKs <= $FILE1_BLKs)"
72 fi
73 #
74 log_pass "$TESTFILE0 is bigger than $TESTFILE1 ($FILE0_BLKs > $FILE1_BLKs)"
```

```

*****
2341 Fri Nov 22 15:19:58 2013
new/usr/src/test/zfs-tests/tests/functional/compression/compress_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/compression/compress.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Create two files of exactly the same size. One with compression
38 # and one without. Ensure the compressed file is smaller.
39 #
40 # NOTE: This test uses a dataset rather than a simple file system.
41 #
42 # STRATEGY:
43 # Create a dataset, turn on compression and create files before
44 # and after the property change. The compressed file should be smaller.
45 #
46 #
47 verify_runnable "both"
48 #
49 typeset OP=create
50 #
51 log_assert "Ensure that compressed files in a dataset are smaller."
52 #
53 log_note "Ensure compression is off"
54 log_must $ZFS set compression=off $TESTPOOL/$TESTCTR

```

```

55 #
56 log_note "Writing file without compression..."
57 log_must $FILE_WRITE -o $OP -f $TESTDIR1/$TESTFILE0 -b $BLOCKSZ \
58 -c $NUM_WRITES -d $DATA
59 #
60 log_note "Add compression property to the dataset and write another file"
61 log_must $ZFS set compression=on $TESTPOOL/$TESTCTR
62 #
63 log_must $FILE_WRITE -o $OP -f $TESTDIR1/$TESTFILE1 -b $BLOCKSZ \
64 -c $NUM_WRITES -d $DATA
65 #
66 $SLEEP 60
67 #
68 FILE0_BLKs=`$DU -k $TESTDIR1/$TESTFILE0 | $AWK '{ print $1}'`
69 FILE1_BLKs=`$DU -k $TESTDIR1/$TESTFILE1 | $AWK '{ print $1}'`
70 #
71 if [[ $FILE0_BLKs -le $FILE1_BLKs ]]; then
72     log_fail "$TESTFILE0 is smaller than $TESTFILE1" \
73         "($FILE0_BLKs <= $FILE1_BLKs)"
74 fi
75 #
76 log_pass "$TESTFILE0 is bigger than $TESTFILE1 ($FILE0_BLKs > $FILE1_BLKs)"

```

```

*****
2587 Fri Nov 22 15:19:58 2013
new/usr/src/test/zfs-tests/tests/functional/compression/compress_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # With 'compression' or 'compress' set, changing filesystem blocksize cannot
37 # cause system panic
38 #
39 # STRATEGY:
40 # 1. Set 'compression' or "compress" to on
41 # 2. Set different blocksize with ZFS filesystem
42 # 3. Use 'mkfile' create single block and multi-block files
43 # 4. Verify the system continued work
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     $RM -f $TESTDIR/*
51 }
52 #
53 log_assert "Changing blocksize doesn't casue system panic with compression setti
54 log_onexit cleanup

```

```

56 fs=$TESTPOOL/$TESTFS
57 single_blk_file=$TESTDIR/singleblkfile.$$
58 multi_blk_file=$TESTDIR/multiblkfile.$$
59 typeset -i blksize=512
60 typeset -i fsize=0
61 typeset -i offset=0
62 #
63 for propname in "compression" "compress"
64 do
65     for value in $(get_compress_opts zfs_compress)
66     do
67         log_must $ZFS set $propname=$value $fs
68         if [[ $value == "gzip-6" ]]; then
69             value="gzip"
70         fi
71         real_val=$(get_prop $propname $fs)
72         [[ $real_val != $value ]] && \
73             log_fail "Set property $propname=$value failed."
74 #
75         (( blksize = 512 ))
76         while (( blksize <= 131072 )); do
77             log_must $ZFS set recordsize=$blksize $fs
78             (( offset = $RANDOM ))
79             if (( offset > blksize )); then
80                 (( offset = offset % blksize ))
81             fi
82             if (( (offset % 2) == 0 )); then
83                 #keep offset as non-power-of-2
84                 (( offset = offset + 1 ))
85             fi
86             (( fsize = offset ))
87             log_must $MKFILE $fsize $single_blk_file
88             (( fsize = blksize + offset ))
89             log_must $MKFILE $fsize $multi_blk_file
90 #
91             (( blksize = blksize * 2 ))
92         done
93     done
94 done
95 #
96 log_pass "The system works as expected while changing blocksize with compression

```

```

*****
3551 Fri Nov 22 15:19:58 2013
new/usr/src/test/zfs-tests/tests/functional/compression/compress_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # With 'compression' set, a file with non-power-of-2 blocksize storage space
37 # can be freed as will normally.
38 #
39 # STRATEGY:
40 # 1. Set 'compression' or 'compress' to on or lzjb
41 # 2. Set different recordsize with ZFS filesystem
42 # 3. Repeatedly using 'randfree_file' to create a file and then free its
43 # storage space with different range, the system should work normally.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     $RM -f $TESTDIR/*
51 }
52 #
53 function create_free_testing #<file size> <file>
54 {

```

```

55     typeset -i fsz=$1
56     typeset file=$2
57     typeset -i start=0
58     typeset -i len=0
59     typeset -i dist=0
60 #
61     for start in 0 `expr $RANDOM % $fsz`
62     do
63         (( dist = fsz - start ))
64         for len in `expr $RANDOM % $dist` $dist \
65             `expr $start + $dist`; do
66             log_must $RANDFREE_FILE -l fsz -s $start \
67                 -n $len $file
68             [[ -e $file ]] && \
69                 log_must $RM -f $file
70         done
71     done
72 }
73 #
74 #
75 log_assert "Creating non-power-of-2 blocksize file and freeing the file \
76     storage space at will should work normally with compression setting"
77 log_onexit cleanup
78 #
79 fs=$TESTPOOL/$TESTFS
80 single_blk_file=$TESTDIR/singleblkfile.$$
81 multi_blk_file=$TESTDIR/multiblkfile.$$
82 typeset -i blksize=512
83 typeset -i fsize=0
84 typeset -i avail=0
85 typeset -i blknum=0
86 #
87 for propname in "compression" "compress"
88 do
89     for value in $(get_compress_opts zfs_compression)
90     do
91         log_must $ZFS set compression=$value $fs
92         real_val=$(get_prop $propname $fs)
93         if [[ $value == "gzip-6" ]]; then
94             value="gzip"
95         fi
96         [[ $real_val != $value ]] && \
97             log_fail "Set property $propname=$value failed."
98     done
99     (( blksize = 512 ))
100     while (( blksize <= 131072 )); do
101         log_must $ZFS set recordsize=$blksize $fs
102     done
103     # doing single block testing
104     (( fsize = $RANDOM ))
105     if (( fsize > blksize )); then
106         (( fsize = fsize % blksize ))
107     fi
108     if (( (fsize % 2) == 0 )); then
109         #make sure fsize is non-power-of-2
110         (( fsize = fsize + 1 ))
111     fi
112     create_free_testing $fsize $single_blk_file
113 #
114     # doing multiple blocks testing
115     avail=$(get_prop available $fs)
116     (( blknum = avail / blksize ))
117     # we just test <10 multi-blocks to limit testing time
118     (( blknum = blknum % 9 ))
119     while (( blknum < 2 )); do
120         (( blknum = blknum + $RANDOM % 9 ))

```

new/usr/src/test/zfs-tests/tests/functional/compression/compress_004_pos.ksh 3

```
121         done
122         if (( (blknum % 2) == 0 )); then
123             (( blknum = blknum + 1 )) # keep blknum as odd
124         fi
125         (( fsize = blknum * blksize ))
126         create_free_testing $fsize $multi_blk_file
127
128         (( blksize = blksize * 2 ))
129     done
130 done
131 done
132
133 log_pass "Creating and freeing non-power-of-2 blocksize file work as expected."
```

new/usr/src/test/zfs-tests/tests/functional/compression/setup.ksh

1

1064 Fri Nov 22 15:19:59 2013

new/usr/src/test/zfs-tests/tests/functional/compression/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_container_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/ctime/Makefile

1

1242 Fri Nov 22 15:19:59 2013

new/usr/src/test/zfs-tests/tests/functional/ctime/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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10 #
```

```
12 #
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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/ctime
```

```
21 PROG = ctime_001_pos
```

```
23 SCRIPTS = cleanup \
24         setup
```

```
26 include $(SRC)/cmd/Makefile.cmd
27 include $(SRC)/test/Makefile.com
```

```
29 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
31 OBJS = $(PROG:%=%.o)
32 SRCS = $(OBJS:%.o=%.c)
```

```
34 CMDS = $(PROG:%=$(TESTDIR)/%) $(SCRIPTS:%=$(TESTDIR)/%)
35 $(CMDS) := FILEMODE = 0555
```

```
37 CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64
```

```
39 all: $(PROG)
```

```
41 $(PROG): $(OBJS)
42         $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
43         $(POST_PROCESS)
```

```
45 %.o: ../%.c
46         $(COMPILE.c) $<
```

```
48 install: all $(CMDS)
```

```
50 lint: lint_SRCS
```

```
52 clobber: clean
53         -$(RM) $(PROG)
```

new/usr/src/test/zfs-tests/tests/functional/ctime/Makefile

2

```
55 clean:
56         -$(RM) $(OBJS)
```

```
58 $(CMDS): $(TESTDIR) $(PROG)
```

```
60 $(TESTDIR):
61         $(INS.dir)
```

```
63 $(TESTDIR)/%: %
64         $(INS.file)
```

```
66 $(TESTDIR)/%: %.ksh
67         $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/ctime/cleanup.ksh

1

1031 Fri Nov 22 15:19:59 2013

new/usr/src/test/zfs-tests/tests/functional/ctime/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```



```

*****
7148 Fri Nov 22 15:20:00 2013
new/usr/src/test/zfs-tests/tests/functional/ctime/ctime_001_pos.c
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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26
27 /*
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29 */
30
31
32 #include <sys/types.h>
33 #include <sys/stat.h>
34 #include <utime.h>
35 #include <stdio.h>
36 #include <stdlib.h>
37 #include <unistd.h>
38 #include <strings.h>
39 #include <errno.h>
40 #include <fcntl.h>
41 #include <libgen.h>
42
43 #define ST_ETIME 0
44 #define ST_CTIME 1
45 #define ST_MTIME 2
46
47 #define ALL_MODE (mode_t)(S_IRWXU|S_IRWXG|S_IRWXO)
48
49 typedef struct timetest {
50     int     type;
51     char    *name;
52     int     (*func)(const char *pfile);
53 } timetest_t;

```

```

55 static char tfile[BUFSIZ] = { 0 };
56
57 extern int errno;
58
59 /*
60  * DESCRIPTION:
61  *   Verify time will be changed correctly after each operation.
62  *
63  * STRATEGY:
64  *   1. Define time test array.
65  *   2. Loop through each item in this array.
66  *   3. Verify the time is changed after each operation.
67  *
68 */
69
70 static int
71 get_file_time(const char *pfile, int what, time_t *ptr)
72 {
73     struct stat stat_buf;
74
75     if (pfile == NULL || ptr == NULL) {
76         return (-1);
77     }
78
79     if (stat(pfile, &stat_buf) == -1) {
80         return (-1);
81     }
82
83     switch (what) {
84     case ST_ETIME:
85         *ptr = stat_buf.st_etime;
86         return (0);
87     case ST_CTIME:
88         *ptr = stat_buf.st_ctime;
89         return (0);
90     case ST_MTIME:
91         *ptr = stat_buf.st_mtime;
92         return (0);
93     default:
94         return (-1);
95     }
96 }
97
98 static int
99 do_read(const char *pfile)
100 {
101     int fd, ret = 0;
102     char buf[BUFSIZ] = { 0 };
103
104     if (pfile == NULL) {
105         return (-1);
106     }
107
108     if ((fd = open(pfile, O_RDONLY, ALL_MODE)) == -1) {
109         return (-1);
110     }
111     if (read(fd, buf, sizeof (buf)) == -1) {
112         (void) fprintf(stderr, "read(%d, buf, %d) failed with errno "
113             "%d\n", fd, sizeof (buf), errno);
114         return (1);
115     }
116     (void) close(fd);
117
118     return (ret);
119 }

```

```

121 static int
122 do_write(const char *pfile)
123 {
124     int fd, ret = 0;
125     char buf[BUFSIZ] = "call function do_write()";
126
127     if (pfile == NULL) {
128         return (-1);
129     }
130
131     if ((fd = open(pfile, O_WRONLY, ALL_MODE)) == -1) {
132         return (-1);
133     }
134     if (write(fd, buf, strlen(buf)) == -1) {
135         (void) fprintf(stderr, "write(%d, buf, %d) failed with errno "
136             "%d\n", fd, strlen(buf), errno);
137         return (1);
138     }
139     (void) close(fd);
140
141     return (ret);
142 }
143
144 static int
145 do_link(const char *pfile)
146 {
147     int ret = 0;
148     char link_file[BUFSIZ] = { 0 };
149     char *dname;
150
151     if (pfile == NULL) {
152         return (-1);
153     }
154
155     /*
156      * Figure out source file directory name, and create
157      * the link file in the same directory.
158      */
159     dname = dirname(strdup(pfile));
160     (void) snprintf(link_file, BUFSIZ, "%s/%s", dname, "link_file");
161
162     if (link(pfile, link_file) == -1) {
163         (void) fprintf(stderr, "link(%s, %s) failed with errno %d\n",
164             pfile, link_file, errno);
165         free((void *)dname);
166         return (1);
167     }
168
169     (void) unlink(link_file);
170     free((void *)dname);
171     return (ret);
172 }
173
174 static int
175 do_creat(const char *pfile)
176 {
177     int fd, ret = 0;
178
179     if (pfile == NULL) {
180         return (-1);
181     }
182
183     if ((fd = creat(pfile, ALL_MODE)) == -1) {
184         (void) fprintf(stderr, "creat(%s, ALL_MODE) failed with errno "
185             "%d\n", pfile, errno);
186         return (1);

```

```

187     }
188     (void) close(fd);
189
190     return (ret);
191 }
192
193 static int
194 do_utime(const char *pfile)
195 {
196     int ret = 0;
197
198     if (pfile == NULL) {
199         return (-1);
200     }
201
202     /*
203      * Times of the file are set to the current time
204      */
205     if (utime(pfile, NULL) == -1) {
206         (void) fprintf(stderr, "utime(%s, NULL) failed with errno "
207             "%d\n", pfile, errno);
208         return (1);
209     }
210
211     return (ret);
212 }
213
214 static int
215 do_chmod(const char *pfile)
216 {
217     int ret = 0;
218
219     if (pfile == NULL) {
220         return (-1);
221     }
222
223     if (chmod(pfile, ALL_MODE) == -1) {
224         (void) fprintf(stderr, "chmod(%s, ALL_MODE) failed with "
225             "errno %d\n", pfile, errno);
226         return (1);
227     }
228
229     return (ret);
230 }
231
232 static int
233 do_chown(const char *pfile)
234 {
235     int ret = 0;
236
237     if (pfile == NULL) {
238         return (-1);
239     }
240
241     if (chown(pfile, getuid(), getgid()) == -1) {
242         (void) fprintf(stderr, "chown(%s, %d, %d) failed with errno "
243             "%d\n", pfile, (int)getuid(), (int)getgid(), errno);
244         return (1);
245     }
246
247     return (ret);
248 }
249
250 static void
251 cleanup(void)
252 {

```

```

253     if ((strlen(tfile) != 0) && (access(tfile, F_OK) == 0)) {
254         (void) unlink(tfile);
255     }
256 }

258 static timetest_t timetest_table[] = {
259     { ST_ATIME,    "st_atime",    do_read    },
260     { ST_ATIME,    "st_atime",    do_utime   },
261     { ST_MTIME,    "st_mtime",    do_creat   },
262     { ST_MTIME,    "st_mtime",    do_write   },
263     { ST_MTIME,    "st_mtime",    do_utime   },
264     { ST_CTIME,    "st_ctime",    do_creat   },
265     { ST_CTIME,    "st_ctime",    do_write   },
266     { ST_CTIME,    "st_ctime",    do_chmod   },
267     { ST_CTIME,    "st_ctime",    do_chown   },
268     { ST_CTIME,    "st_ctime",    do_link    },
269     { ST_CTIME,    "st_ctime",    do_utime   },
270 };

272 #define NCOMMAND (sizeof (timetest_table) / sizeof (timetest_table[0]))

274 /* ARGSUSED */
275 int
276 main(int argc, char *argv[])
277 {
278     int i, ret, fd;
279     char *penv[] = {"TESTDIR", "TESTFILE0"};

281     (void) fprintf(stdout, "Verify [acm]time is modified appropriately.\n");
282     (void) atexit(cleanup);

284     /*
285      * Get the environment variable values.
286      */
287     for (i = 0; i < sizeof (penv) / sizeof (char *); i++) {
288         if ((penv[i] = getenv(penv[i])) == NULL) {
289             (void) fprintf(stderr, "getenv(penv[%d])\n", i);
290             return (1);
291         }
292     }
293     (void) snprintf(tfile, sizeof (tfile), "%s/%s", penv[0], penv[1]);

295     /*
296      * If the test file is exists, remove it first.
297      */
298     if (access(tfile, F_OK) == 0) {
299         (void) unlink(tfile);
300     }
301     ret = 0;
302     if ((fd = open(tfile, O_WRONLY | O_CREAT | O_TRUNC, ALL_MODE)) == -1) {
303         (void) fprintf(stderr, "open(%s) failed: %d\n", tfile, errno);
304         return (1);
305     }
306     (void) close(fd);

308     for (i = 0; i < NCOMMAND; i++) {
309         time_t t1, t2;

311         /*
312          * Get original time before operating.
313          */
314         ret = get_file_time(tfile, timetest_table[i].type, &t1);
315         if (ret != 0) {
316             (void) fprintf(stderr, "get_file_time(%s %d) = %d\n",
317                 tfile, timetest_table[i].type, ret);
318             return (1);

```

```

319     }

321     /*
322      * Sleep 2 seconds, then invoke command on given file
323      */
324     (void) sleep(2);
325     timetest_table[i].func(tfile);

327     /*
328      * Get time after operating.
329      */
330     ret = get_file_time(tfile, timetest_table[i].type, &t2);
331     if (ret != 0) {
332         (void) fprintf(stderr, "get_file_time(%s %d) = %d\n",
333             tfile, timetest_table[i].type, ret);
334         return (1);
335     }

337     if (t1 == t2) {
338         (void) fprintf(stderr, "%s: t1(%ld) == t2(%ld)\n",
339             timetest_table[i].name, (long)t1, (long)t2);
340         return (1);
341     } else {
342         (void) fprintf(stderr, "%s: t1(%ld) != t2(%ld)\n",
343             timetest_table[i].name, (long)t1, (long)t2);
344     }
345 }

347     (void) fprintf(stdout, "PASS\n");
348     return (0);
349 }

```

new/usr/src/test/zfs-tests/tests/functional/ctime/setup.ksh

1

1053 Fri Nov 22 15:20:00 2013

new/usr/src/test/zfs-tests/tests/functional/ctime/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 default_setup $DISK
```

```
*****
```

```
1327 Fri Nov 22 15:20:00 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/delegate
20 #
21 PROGS = cleanup \
22         setup \
23         zfs_allow_001_pos \
24         zfs_allow_002_pos \
25         zfs_allow_003_pos \
26         zfs_allow_004_pos \
27         zfs_allow_005_pos \
28         zfs_allow_006_pos \
29         zfs_allow_007_pos \
30         zfs_allow_008_pos \
31         zfs_allow_009_neg \
32         zfs_allow_010_pos \
33         zfs_allow_011_neg \
34         zfs_allow_012_neg \
35         zfs_unallow_001_pos \
36         zfs_unallow_002_pos \
37         zfs_unallow_003_pos \
38         zfs_unallow_004_pos \
39         zfs_unallow_005_pos \
40         zfs_unallow_006_pos \
41         zfs_unallow_007_neg \
42         zfs_unallow_008_neg
43 #
44 FILES = delegate.cfg \
45         delegate_common.kshlib
46 #
47 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
48 $(CMDS) := FILEMODE = 0555
49 #
50 all lint clean clobber:
51 #
52 install: $(CMDS)
53 #
54 $(CMDS): $(TESTDIR)
```

```
56 $(TESTDIR):
57     $(INS.dir)
58 #
59 $(TESTDIR)/%: %.ksh
60     $(INS.rename)
61 #
62 $(TESTDIR)/%: %
63     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/delegate/cleanup.ksh

1

1263 Fri Nov 22 15:20:01 2013

new/usr/src/test/zfs-tests/tests/functional/delegate/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 cleanup_user_group
35 #
36 # restore the state of svc:/network/nis/client:default
37 if [[ -e $NISSTAFILE ]]; then
38     log_must $SVCADM enable svc:/network/nis/client:default
39     log_must $RM -f $NISSTAFILE
40 fi
41 #
42 default_cleanup
43 #
44 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/delegate/delegate.cfg

1

1575 Fri Nov 22 15:20:01 2013

new/usr/src/test/zfs-tests/tests/functional/delegate/delegate.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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29 #
30 #
31 export NISSTAFILE=/var/tmp/nis_state
32 #
33 export STAFF_GROUP=zfsgrp
34 export STAFF1=staff1
35 export STAFF2=staff2
36 #
37 export OTHER_GROUP=othergrp
38 export OTHER1=other1
39 export OTHER2=other2
40 #
41 export EVERYONE="$STAFF1 $STAFF2 $OTHER1 $OTHER2"
42 #
43 export LOCAL_SET="snapshot"
44 export LOCAL_DESC_SET="readonly,checksum"
45 export DESC_SET="compression"
46 #
47 export TESTVOL=testvol.delegate
48 export VOLSIZE=150m
49 #
50 export ROOT_TESTVOL=$TESTPOOL/$TESTVOL
51 export ROOT_TESTFS=$TESTPOOL/$TESTFS
52 export SUBFS=$ROOT_TESTFS/SUBFS
53 export SUBFS2=$ROOT_TESTFS/SUBFS2
```

new/usr/src/test/zfs-tests/tests/functional/delegate/delegate.cfg

2

```
55 DATASETS="$ROOT_TESTFS"
56 if is_global_zone ; then
57     DATASETS=$DATASETS
58 fi
59 export DATASETS
```

36429 Fri Nov 22 15:20:01 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/delegate_common.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/delegate/delegate.cfg
33 #
34 # Cleanup exist user/group.
35 #
36 #
37 function cleanup_user_group
38 {
39     typeset i
40     for i in $STAFF1 $STAFF2 $OTHER1 $OTHER2 ; do
41         del_user $i
42     done
43     for i in $STAFF_GROUP $OTHER_GROUP ; do
44         del_group $i
45     done
46
47     return 0
48 }
49 #
50 # Restore test file system to the original status.
51 #
52 #
53 function restore_root_datasets
54 {
```

```
55     if datasetexists $ROOT_TESTFS ; then
56         log_must $ZFS destroy -Rf $ROOT_TESTFS
57     fi
58     log_must $ZFS create $ROOT_TESTFS
59
60     if is_global_zone ; then
61         if datasetexists $ROOT_TESTVOL ; then
62             log_must $ZFS destroy -Rf $ROOT_TESTVOL
63         fi
64         log_must $ZFS create -V $VOLSIZE $ROOT_TESTVOL
65     fi
66
67     return 0
68 }
69 #
70 #
71 # Verify the specified user have permission on the dataset
72 #
73 # $1 dataset
74 # $2 permissions which are separated by comma(,)
75 # $3-n users
76 #
77 function verify_perm
78 {
79     typeset dtst=$1
80     typeset permissions=$2
81     shift 2
82
83     if [[ -z $@ || -z $permissions || -z $dtst ]]; then
84         return 1
85     fi
86
87     typeset type=$(get_prop type $dtst)
88     permissions=${$ECHO $permissions | $TR -s " , " }
89
90     typeset user
91     for user in $@; do
92         typeset perm
93         for perm in $permissions; do
94             typeset -i ret=1
95             if [[ $type == "filesystem" ]]; then
96                 check_fs_perm $user $perm $dtst
97                 ret=$?
98             elif [[ $type == "volume" ]]; then
99                 check_vol_perm $user $perm $dtst
100                 ret=$?
101             fi
102
103             if ((ret != 0)) ; then
104                 log_note "Fail: $user should have $perm " \
105                     "on $dtst"
106                 return 1
107             fi
108         done
109     done
110
111     return 0
112 }
113 #
114 # Verify the specified user have no permission on the dataset
115 #
116 #
117 # $1 dataset
118 # $2 permissions which are separated by comma(,)
119 # $3-n users
120 #
```



```

121 function verify_noperm
122 {
123     typeset dtst=$1
124     typeset permissions=$2
125     shift 2
126
127     if [[ -z $@ || -z $permissions || -z $dtst ]]; then
128         return 1
129     fi
130
131     typeset type=$(get_prop type $dtst)
132     permissions=$(ECHO $permissions | $TR -s ", " " ")
133
134     typeset user
135     for user in $@; do
136         typeset perm
137         for perm in $permissions; do
138             typeset -i ret=1
139             if [[ $type == "filesystem" ]]; then
140                 check_fs_perm $user $perm $dtst
141                 ret=$?
142             elif [[ $type == "volume" ]]; then
143                 check_vol_perm $user $perm $dtst
144                 ret=$?
145             fi
146
147             if ((ret == 0)); then
148                 log_note "Fail: $user should not have $perm " \
149                     "on $dtst"
150                 return 1
151             fi
152         done
153     done
154
155     return 0
156 }
157
158 function common_perm
159 {
160     typeset user=$1
161     typeset perm=$2
162     typeset dtst=$3
163
164     typeset -i ret=1
165     case $perm in
166         send)
167             verify_send $user $perm $dtst
168             ret=$?
169             ;;
170         allow)
171             verify_allow $user $perm $dtst
172             ret=$?
173             ;;
174         userprop)
175             verify_userprop $user $perm $dtst
176             ret=$?
177             ;;
178         compression|checksum|readonly)
179             verify_ccr $user $perm $dtst
180             ret=$?
181             ;;
182         copies)
183             verify_copies $user $perm $dtst
184             ret=$?
185             ;;
186         reservation)

```

```

187             verify_reservation $user $perm $dtst
188             ret=$?
189             ;;
190         *)
191             ret=1
192             ;;
193     esac
194
195     return $ret
196 }
197
198 function check_fs_perm
199 {
200     typeset user=$1
201     typeset perm=$2
202     typeset fs=$3
203
204     typeset -i ret=1
205     case $perm in
206         create)
207             verify_fs_create $user $perm $fs
208             ret=$?
209             ;;
210         destroy)
211             verify_fs_destroy $user $perm $fs
212             ret=$?
213             ;;
214         snapshot)
215             verify_fs_snapshot $user $perm $fs
216             ret=$?
217             ;;
218         rollback)
219             verify_fs_rollback $user $perm $fs
220             ret=$?
221             ;;
222         clone)
223             verify_fs_clone $user $perm $fs
224             ret=$?
225             ;;
226         rename)
227             verify_fs_rename $user $perm $fs
228             ret=$?
229             ;;
230         mount)
231             verify_fs_mount $user $perm $fs
232             ret=$?
233             ;;
234         share)
235             verify_fs_share $user $perm $fs
236             ret=$?
237             ;;
238         mountpoint)
239             verify_fs_mountpoint $user $perm $fs
240             ret=$?
241             ;;
242         promote)
243             verify_fs_promote $user $perm $fs
244             ret=$?
245             ;;
246         canmount)
247             verify_fs_canmount $user $perm $fs
248             ret=$?
249             ;;
250         recordsize)
251             verify_fs_recordsizesize $user $perm $fs
252             ret=$?

```

```

253         ;;
254     quota)
255         verify_fs_quota $user $perm $fs
256         ret=$?
257         ;;
258     aclmode)
259         verify_fs_aclmode $user $perm $fs
260         ret=$?
261         ;;
262     aclinherit)
263         verify_fs_aclinherit $user $perm $fs
264         ret=$?
265         ;;
266     snapdir)
267         verify_fs_snapdir $user $perm $fs
268         ret=$?
269         ;;
270     atime|exec|devices|setuid|xattr)
271         verify_fs_aedsx $user $perm $fs
272         ret=$?
273         ;;
274     zoned)
275         verify_fs_zoned $user $perm $fs
276         ret=$?
277         ;;
278     sharenfs)
279         verify_fs_sharenfs $user $perm $fs
280         ret=$?
281         ;;
282     receive)
283         verify_fs_receive $user $perm $fs
284         ret=$?
285         ;;
286     *)
287         common_perm $user $perm $fs
288         ret=$?
289         ;;
290     esac
291
292     return $ret
293 }
294
295 function check_vol_perm
296 {
297     typeset user=$1
298     typeset perm=$2
299     typeset vol=$3
300
301     typeset -i ret=1
302     case $perm in
303     destroy)
304         verify_vol_destroy $user $perm $vol
305         ret=$?
306         ;;
307     snapshot)
308         verify_vol_snapshot $user $perm $vol
309         ret=$?
310         ;;
311     rollback)
312         verify_vol_rollback $user $perm $vol
313         ret=$?
314         ;;
315     clone)
316         verify_vol_clone $user $perm $vol
317         ret=$?
318         ;;

```

```

319         rename)
320             verify_vol_rename $user $perm $vol
321             ret=$?
322             ;;
323         promote)
324             verify_vol_promote $user $perm $vol
325             ret=$?
326             ;;
327         volsize)
328             verify_vol_volsize $user $perm $vol
329             ret=$?
330             ;;
331         *)
332             common_perm $user $perm $vol
333             ret=$?
334             ;;
335     esac
336
337     return $ret
338 }
339
340 function setup_unallow_testenv
341 {
342     log_must restore_root_datasets
343
344     log_must $ZFS create $SUBFS
345
346     for dtst in $DATASETS ; do
347         log_must $ZFS allow -l $STAFF1 $LOCAL_SET $dtst
348         log_must $ZFS allow -d $STAFF2 $DESC_SET $dtst
349         log_must $ZFS allow $OTHER1 $LOCAL_DESC_SET $dtst
350         log_must $ZFS allow $OTHER2 $LOCAL_DESC_SET $dtst
351
352         log_must verify_perm $dtst $LOCAL_SET $STAFF1
353         log_must verify_perm $dtst $LOCAL_DESC_SET $OTHER1
354         log_must verify_perm $dtst $LOCAL_DESC_SET $OTHER2
355         if [[ $dtst == $ROOT_TESTFS ]]; then
356             log_must verify_perm $SUBFS $DESC_SET $STAFF2
357             log_must verify_perm $SUBFS $LOCAL_DESC_SET $OTHER1
358             log_must verify_perm $SUBFS $LOCAL_DESC_SET $OTHER2
359         fi
360     done
361
362     return 0
363 }
364
365 #
366 # Verify permission send for specified user on the dataset
367 # $1 user
368 # $2 permission
369 # $3 dataset
370 #
371 function verify_send
372 {
373     typeset user=$1
374     typeset perm=$2
375     typeset dtst=$3
376
377     typeset oldval
378     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S}
379     typeset snap=${dtst}@snap.$stamp
380
381     typeset -i ret=1
382
383     log_must $ZFS snapshot $snap
384     typeset bak_user=/tmp/bak.$user.$stamp

```

```

385     typeset bak_root=/tmp/bak.root.$stamp
387     user_run $user eval "$ZFS send $snap > $bak_user"
388     log_must eval "$ZFS send $snap > $bak_root"
390     if [[ $(checksum $bak_user) == $(checksum $bak_root) ]]; then
391         ret=0
392     fi
394     $RM -rf $bak_user > /dev/null
395     $RM -rf $bak_root > /dev/null
397     return $ret
398 }
400 function verify_fs_receive
401 {
402     typeset user=$1
403     typeset perm=$2
404     typeset fs=$3
406     typeset dtst
407     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
408     typeset newfs=$fs/newfs.$stamp
409     typeset newvol=$fs/newvol.$stamp
410     typeset bak_user=/tmp/bak.$user.$stamp
411     typeset bak_root=/tmp/bak.root.$stamp
413     log_must $ZFS create $newfs
414     typeset datasets="$newfs"
415     if is_global_zone ; then
416         log_must $ZFS create -V $VOLSIZE $newvol
417         datasets="$newfs $newvol"
418     fi
420     for dtst in $datasets ; do
422         typeset dtstsnap=$dtst@snap.$stamp
423         log_must $ZFS snapshot $dtstsnap
425         log_must eval "$ZFS send $dtstsnap > $bak_root"
426         log_must $ZFS destroy -rf $dtst
428         user_run $user eval "$ZFS receive $dtst < $bak_root"
429         if datasetexists $dtstsnap ; then
430             return 1
431         fi
433         log_must $ZFS allow $user create $fs
434         user_run $user eval "$ZFS receive $dtst < $bak_root"
435         log_must $ZFS unallow $user create $fs
436         if datasetexists $dtstsnap ; then
437             return 1
438         fi
440         log_must $ZFS allow $user mount $fs
441         user_run $user eval "$ZFS receive $dtst < $bak_root"
442         log_must $ZFS unallow $user mount $fs
443         if datasetexists $dtstsnap ; then
444             return 1
445         fi
447         log_must $ZFS allow $user mount,create $fs
448         user_run $user eval "$ZFS receive $dtst < $bak_root"
449         log_must $ZFS unallow $user mount,create $fs
450         if ! datasetexists $dtstsnap ; then

```

```

451         return 1
452     fi
454     # check the data integrity
455     log_must eval "$ZFS send $dtstsnap > $bak_user"
456     log_must $ZFS destroy -rf $dtst
457     log_must eval "$ZFS receive $dtst < $bak_root"
458     log_must eval "$ZFS send $dtstsnap > $bak_root"
459     log_must $ZFS destroy -rf $dtst
460     if [[ $(checksum $bak_user) != $(checksum $bak_root) ]]; then
461         return 1
462     fi
464     $RM -rf $bak_user > /dev/null
465     $RM -rf $bak_root > /dev/null
467     done
469     return 0
470 }
472 function verify_userprop
473 {
474     typeset user=$1
475     typeset perm=$2
476     typeset dtst=$3
478     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
480     user_run $user $ZFS set "$user:ts=$stamp" $dtst
481     if [[ $stamp != $(get_prop "$user:ts" $dtst) ]]; then
482         return 1
483     fi
485     return 0
486 }
488 function verify_ccr
489 {
490     typeset user=$1
491     typeset perm=$2
492     typeset dtst=$3
494     typeset oldval
496     set -A modes "on" "off"
497     oldval=$(get_prop $perm $dtst)
498     if [[ $oldval == "on" ]]; then
499         n=1
500     elif [[ $oldval == "off" ]]; then
501         n=0
502     fi
503     log_note "$user $ZFS set $perm=${modes[$n]} $dtst"
504     user_run $user $ZFS set $perm=${modes[$n]} $dtst
505     if [[ ${modes[$n]} != $(get_prop $perm $dtst) ]]; then
506         return 1
507     fi
509     return 0
510 }
512 function verify_copies
513 {
514     typeset user=$1
515     typeset perm=$2
516     typeset dtst=$3

```

```

518     typeset oldval
520     set -A modes 1 2 3
521     oldval=$(get_prop $perm $dtst)
522     if [[ $oldval -eq 1 ]]; then
523         n=1
524     elif [[ $oldval -eq 2 ]]; then
525         n=2
526     elif [[ $oldval -eq 3 ]]; then
527         n=0
528     fi
529     log_note "$user $ZFS set $perm=${modes[$n]} $dtst"
530     user_run $user $ZFS set $perm=${modes[$n]} $dtst
531     if [[ ${modes[$n]} != $(get_prop $perm $dtst) ]]; then
532         return 1
533     fi
535     return 0
536 }

538 function verify_reservation
539 {
540     typeset user=$1
541     typeset perm=$2
542     typeset dtst=$3

544     typeset value32m=$(( 1024 * 1024 * 32 ))
545     typeset oldval=$(get_prop reservation $dtst)
546     user_run $user $ZFS set reservation=$value32m $dtst
547     if [[ $value32m != $(get_prop reservation $dtst) ]]; then
548         log_must $ZFS set reservation=$oldval $dtst
549         return 1
550     fi

552     log_must $ZFS set reservation=$oldval $dtst
553     return 0
554 }

556 function verify_fs_create
557 {
558     typeset user=$1
559     typeset perm=$2
560     typeset fs=$3

562     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
563     typeset newfs=$fs/nfs.$stamp
564     typeset newvol=$fs/nvol.$stamp

566     user_run $user $ZFS create $newfs
567     if datasetexists $newfs ; then
568         return 1
569     fi

571     log_must $ZFS allow $user mount $fs
572     user_run $user $ZFS create $newfs
573     log_must $ZFS unallow $user mount $fs
574     if ! datasetexists $newfs ; then
575         return 1
576     fi

578     log_must $ZFS destroy $newfs

580     if is_global_zone ; then
581         # mount permission is required for sparse volume
582         user_run $user $ZFS create -V 150m -s $newvol

```

```

583         if datasetexists $newvol ; then
584             return 1
585         fi

587         log_must $ZFS allow $user mount $fs
588         user_run $user $ZFS create -V 150m -s $newvol
589         log_must $ZFS unallow $user mount $fs
590         if ! datasetexists $newvol ; then
591             return 1
592         fi
593         log_must $ZFS destroy $newvol

595         # mount and reservation permission are
596         # required for normal volume
597         user_run $user $ZFS create -V 150m $newvol
598         if datasetexists $newvol ; then
599             return 1
600         fi

602         log_must $ZFS allow $user mount $fs
603         user_run $user $ZFS create -V 150m $newvol
604         log_must $ZFS unallow $user mount $fs
605         if datasetexists $newvol ; then
606             return 1
607         fi

609         log_must $ZFS allow $user reservation $fs
610         user_run $user $ZFS create -V 150m $newvol
611         log_must $ZFS unallow $user reservation $fs
612         if datasetexists $newvol ; then
613             return 1
614         fi

616         log_must $ZFS allow $user refreservation $fs
617         user_run $user $ZFS create -V 150m $newvol
618         log_must $ZFS unallow $user refreservation $fs
619         if datasetexists $newvol ; then
620             return 1
621         fi

623         log_must $ZFS allow $user mount $fs
624         log_must $ZFS allow $user reservation $fs
625         log_must $ZFS allow $user refreservation $fs
626         user_run $user $ZFS create -V 150m $newvol
627         log_must $ZFS unallow $user mount $fs
628         log_must $ZFS unallow $user reservation $fs
629         log_must $ZFS unallow $user refreservation $fs
630         if ! datasetexists $newvol ; then
631             return 1
632         fi
633         log_must $ZFS destroy $newvol
634     fi

636     return 0
637 }

639 function verify_fs_destroy
640 {
641     typeset user=$1
642     typeset perm=$2
643     typeset fs=$3

645     if ! ismounted $fs ; then
646         user_run $user $ZFS destroy $fs
647         if datasetexists $fs ; then
648             return 1

```

```

649         fi
650     fi

652     if ismounted $fs ; then
653         user_run $user $ZFS destroy $fs
654         if ! datasetexists $fs ; then
655             return 1
656         fi

658         # mount permission is required
659         log_must $ZFS allow $user mount $fs
660         user_run $user $ZFS destroy $fs
661         if datasetexists $fs ; then
662             return 1
663         fi
664     fi

666     return 0
667 }

669 # Verify that given the correct delegation, a regular user can:
670 # Take a snapshot of an unmounted dataset
671 # Take a snapshot of an mounted dataset
672 # Create a snapshot by making a directory in the .zfs/snapshot directory
673 function verify_fs_snapshot
674 {
675     typeset user=$1
676     typeset perm=$2
677     typeset fs=$3

679     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
680     typeset snap=$fs@snap.$stamp
681     typeset mntpt=$(get_prop mountpoint $fs)

683     if [[ "yes" == $(get_prop mounted $fs) ]]; then
684         log_must $ZFS umount $fs
685     fi

687     user_run $user $ZFS snapshot $snap
688     if ! datasetexists $snap ; then
689         return 1
690     fi
691     log_must $ZFS destroy $snap

693     if [[ "no" == $(get_prop mounted $fs) ]]; then
694         log_must $ZFS mount $fs
695     fi

697     user_run $user $ZFS snapshot $snap
698     if ! datasetexists $snap ; then
699         return 1
700     fi
701     log_must $ZFS destroy $snap

703     typeset snapdir=${mntpt}/.zfs/snapshot/snap.$stamp
704     user_run $user $MKDIR $snapdir
705     if ! datasetexists $snap ; then
706         return 1
707     fi
708     log_must $ZFS destroy $snap

710     return 0
711 }

713 function verify_fs_rollback
714 {

```

```

715     typeset user=$1
716     typeset perm=$2
717     typeset fs=$3

719     typeset oldval
720     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
721     typeset snap=$fs@snap.$stamp
722     typeset mntpt=$(get_prop mountpoint $fs)

724     oldval=$(datasetcksum $fs)
725     log_must $ZFS snapshot $snap

727     if ! ismounted $fs; then
728         log_must $ZFS mount $fs
729     fi
730     log_must $TOUCH $mntpt/testfile.$stamp

732     user_run $user $ZFS rollback -R $snap
733     if is_global_zone ; then
734         if [[ $oldval != $(datasetcksum $fs) ]]; then
735             return 1
736         fi
737     else
738         # datasetcksum can not be used in local zone
739         if [[ -e $mntpt/testfile.$stamp ]]; then
740             return 1
741         fi
742     fi

744     return 0
745 }

747 function verify_fs_clone
748 {
749     typeset user=$1
750     typeset perm=$2
751     typeset fs=$3

753     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
754     typeset basefs=${fs%/*}
755     typeset snap=$fs@snap.$stamp
756     typeset clone=$basefs/cfs.$stamp

758     log_must $ZFS snapshot $snap
759     user_run $user $ZFS clone $snap $clone
760     if datasetexists $clone ; then
761         return 1
762     fi

764     log_must $ZFS allow $user create $basefs
765     user_run $user $ZFS clone $snap $clone
766     log_must $ZFS unallow $user create $basefs
767     if datasetexists $clone ; then
768         return 1
769     fi

771     log_must $ZFS allow $user mount $basefs
772     user_run $user $ZFS clone $snap $clone
773     log_must $ZFS unallow $user mount $basefs
774     if datasetexists $clone ; then
775         return 1
776     fi

778     log_must $ZFS allow $user mount $basefs
779     log_must $ZFS allow $user create $basefs
780     user_run $user $ZFS clone $snap $clone

```

```

781     log_must $ZFS unallow $user create $basefs
782     log_must $ZFS unallow $user mount $basefs
783     if ! datasetexists $clone ; then
784         return 1
785     fi

787     log_must $ZFS destroy -R $snap

789     return 0
790 }

792 function verify_fs_rename
793 {
794     typeset user=$1
795     typeset perm=$2
796     typeset fs=$3

798     typeset stamp=${perm}.${user}.${$(DATE +%F-%H%M%S')}
799     typeset basefs=${fs%/*}
800     typeset snap=${fs}@snap.$stamp
801     typeset renamefs=$basefs/nfs.$stamp

803     if ! ismounted $fs; then
804         log_must $ZFS mount $fs
805     fi

807     # case 1
808     user_run $user $ZFS rename $fs $renamefs
809     if datasetexists $renamefs ; then
810         return 1
811     fi

813     # case 2
814     log_must $ZFS allow $user create $basefs
815     user_run $user $ZFS rename $fs $renamefs
816     log_must $ZFS unallow $user create $basefs
817     if datasetexists $renamefs ; then
818         return 1
819     fi

821     # case 3
822     log_must $ZFS allow $user mount $basefs
823     user_run $user $ZFS rename $fs $renamefs
824     log_must $ZFS unallow $user mount $basefs
825     if datasetexists $renamefs ; then
826         return 1
827     fi

829     # case 4
830     log_must $ZFS allow $user mount $fs
831     user_run $user $ZFS rename $fs $renamefs
832     if datasetexists $renamefs ; then
833         log_must $ZFS unallow $user mount $renamefs
834         return 1
835     fi
836     log_must $ZFS unallow $user mount $fs

838     # case 5
839     log_must $ZFS allow $user create $basefs
840     log_must $ZFS allow $user mount $fs
841     user_run $user $ZFS rename $fs $renamefs
842     log_must $ZFS unallow $user create $basefs
843     if datasetexists $renamefs ; then
844         log_must $ZFS unallow $user mount $renamefs
845         return 1
846     fi

```

```

847     log_must $ZFS unallow $user mount $fs

849     # case 6
850     log_must $ZFS allow $user mount $basefs
851     log_must $ZFS allow $user mount $fs
852     user_run $user $ZFS rename $fs $renamefs
853     log_must $ZFS unallow $user mount $basefs
854     if datasetexists $renamefs ; then
855         log_must $ZFS unallow $user mount $renamefs
856         return 1
857     fi
858     log_must $ZFS unallow $user mount $fs

860     # case 7
861     log_must $ZFS allow $user create $basefs
862     log_must $ZFS allow $user mount $basefs
863     user_run $user $ZFS rename $fs $renamefs
864     log_must $ZFS unallow $user mount $basefs
865     log_must $ZFS unallow $user create $basefs
866     if ! datasetexists $renamefs ; then
867         return 1
868     fi

870     log_must $ZFS rename $renamefs $fs

872     return 0
873 }

875 function verify_fs_mount
876 {
877     typeset user=$1
878     typeset perm=$2
879     typeset fs=$3

881     typeset stamp=${perm}.${user}.${$(DATE +%F-%H%M%S')}
882     typeset mntpt=$(get_prop mountpoint $fs)
883     typeset newmntpt=/tmp/mnt.$stamp

885     if ismounted $fs ; then
886         user_run $user $ZFS unmount $fs
887         if ismounted $fs ; then
888             return 1
889         fi
890     fi

892     if ! ismounted $fs ; then
893         log_must $ZFS set mountpoint=$newmntpt $fs
894         log_must $RM -rf $newmntpt
895         log_must $MKDIR $newmntpt

897         user_run $user $ZFS mount $fs
898         if ismounted $fs ; then
899             return 1
900         fi

902         # mountpoint's owner must be the user
903         log_must $CHOWN $user $newmntpt
904         user_run $user $ZFS mount $fs
905         if ! ismounted $fs ; then
906             return 1
907         fi
908         log_must $ZFS umount $fs
909         log_must $RM -rf $newmntpt
910         log_must $ZFS set mountpoint=$mntpt $fs
911     fi

```

```

913     return 0
914 }

916 function verify_fs_share
917 {
918     typeset user=$1
919     typeset perm=$2
920     typeset fs=$3

922     typeset stamp=${perm}.${user}.${$(DATE +%F-%H%M%S')}
923     typeset mntpt=$(get_prop mountpoint $fs)

925     typeset stat=$(SVCS -H -o STA nfs/server:default)
926     if [[ $stat != "ON" ]]; then
927         log_note "Current nfs/server status: $stat"
928         # legacy share
929         user_run $user $SHARE $mntpt
930         if is_shared $fs; then
931             return 1
932         fi

934         # sharenfs=on
935         log_must $ZFS set sharenfs=on $fs
936         user_run $user $ZFS share $fs
937         if is_shared $fs; then
938             log_must $ZFS set sharenfs=off $fs
939             return 1
940         fi
941         log_must $ZFS set sharenfs=off $fs
942     fi

944     # turn on nfs/server service if it is not enabled
945     typeset tmpshare=/var/tmp/a.$$
946     $RM -rf $tmpshare

948     log_must $MKDIR -p $tmpshare
949     log_must $SHARE $tmpshare

951     # legacy share
952     user_run $user $SHARE $mntpt
953     if ! is_shared $fs ; then
954         log_must $UNSHARE $tmpshare
955         log_must $RM -rf $tmpshare
956         return 1
957     fi
958     log_must $UNSHARE $mntpt

960     # sharenfs=on
961     log_must $ZFS set sharenfs=on $fs
962     user_run $user $ZFS share $fs
963     if ! is_shared $fs; then
964         log_must $UNSHARE $tmpshare
965         log_must $RM -rf $tmpshare
966         return 1
967     fi

969     log_must $UNSHARE $tmpshare
970     log_must $RM -rf $tmpshare

972     return 0
973 }

975 function verify_fs_mountpoint
976 {
977     typeset user=$1
978     typeset perm=$2

```

```

979     typeset fs=$3

981     typeset stamp=${perm}.${user}.${$(DATE +%F-%H%M%S')}
982     typeset mntpt=$(get_prop mountpoint $fs)
983     typeset newmntpt=/tmp/mnt.$stamp

985     if ! ismounted $fs ; then
986         user_run $user $ZFS set mountpoint=$newmntpt $fs
987         if [[ $newmntpt != \
988             $(get_prop mountpoint $fs) ]] ; then
989             return 1
990         fi
991         log_must $ZFS set mountpoint=$mntpt $fs
992     fi

994     if ismounted $fs ; then
995         user_run $user $ZFS set mountpoint=$newmntpt $fs
996         if [[ $mntpt != $(get_prop mountpoint $fs) ]]; then
997             return 1
998         fi

1000     # require mount permission when fs is mounted
1001     log_must $ZFS allow $user mount $fs
1002     user_run $user $ZFS set mountpoint=$newmntpt $fs
1003     log_must $ZFS unallow $user mount $fs
1004     if [[ $newmntpt != \
1005         $(get_prop mountpoint $fs) ]] ; then
1006         return 1
1007     fi
1008     log_must $ZFS set mountpoint=$mntpt $fs
1009 fi

1011     return 0
1012 }

1014 function verify_fs_promote
1015 {
1016     typeset user=$1
1017     typeset perm=$2
1018     typeset fs=$3

1020     typeset stamp=${perm}.${user}.${$(DATE +%F-%H%M%S')}
1021     typeset basefs=${fs%/*}
1022     typeset snap=$fs@snap.$stamp
1023     typeset clone=$basefs/cfs.$stamp

1025     log_must $ZFS snapshot $snap
1026     log_must $ZFS clone $snap $clone
1027     log_must $ZFS promote $clone

1029     typeset fs_orig=$(get_prop origin $fs)
1030     typeset clone_orig=$(get_prop origin $clone)

1032     user_run $user $ZFS promote $fs
1033     # promote should fail if original fs does not have
1034     # promote permission
1035     if [[ $fs_orig != $(get_prop origin $fs) || \
1036         $clone_orig != $(get_prop origin $clone) ]]; then
1037         return 1
1038     fi

1040     log_must $ZFS allow $user promote $clone
1041     user_run $user $ZFS promote $fs
1042     log_must $ZFS unallow $user promote $clone
1043     if [[ $fs_orig != $(get_prop origin $fs) || \
1044         $clone_orig != $(get_prop origin $clone) ]]; then

```

```

1045         return 1
1046     fi

1048     log_must $ZFS allow $user mount $fs
1049     user_run $user $ZFS promote $fs
1050     log_must $ZFS unallow $user mount $fs
1051     if [[ $fs_orig != $(get_prop origin $fs) || \
1052         $clone_orig != $(get_prop origin $clone) ]]; then
1053         return 1
1054     fi

1056     log_must $ZFS allow $user mount $fs
1057     log_must $ZFS allow $user promote $clone
1058     user_run $user $ZFS promote $fs
1059     log_must $ZFS unallow $user promote $clone
1060     log_must $ZFS unallow $user mount $fs
1061     if [[ $snap != $(get_prop origin $clone) || \
1062         $clone_orig != $(get_prop origin $fs) ]]; then
1063         return 1
1064     fi

1066     return 0
1067 }

1069 function verify_fs_cantmount
1070 {
1071     typeset user=$1
1072     typeset perm=$2
1073     typeset fs=$3

1075     typeset oldval
1076     typeset stamp=${perm}.${user}.${$(DATE +%F-%H%M%S')}

1078     if ! ismounted $fs ; then
1079         set -A modes "on" "off"
1080         oldval=$(get_prop $perm $fs)
1081         if [[ $oldval == "on" ]]; then
1082             n=1
1083         elif [[ $oldval == "off" ]]; then
1084             n=0
1085         fi
1086         log_note "$user $ZFS set $perm=${modes[$n]} $fs"
1087         user_run $user $ZFS set $perm=${modes[$n]} $fs
1088         if [[ ${modes[$n]} != $(get_prop $perm $fs) ]]; then
1089             return 1
1090         fi
1091     fi

1094     # fs is mounted
1095     if ismounted $fs ; then
1096         # property value does not change if
1097         # no mount permission
1098         set -A modes "on" "off"
1099         oldval=$(get_prop $perm $fs)
1100         if [[ $oldval == "on" ]]; then
1101             n=1
1102         elif [[ $oldval == "off" ]]; then
1103             n=0
1104         fi
1105         log_note "$user $ZFS set $perm=${modes[$n]} $fs"
1106         log_must $ZFS allow $user mount $fs
1107         user_run $user $ZFS set $perm=${modes[$n]} $fs
1108         log_must $ZFS unallow $user mount $fs
1109         if [[ ${modes[$n]} != $(get_prop $perm $fs) ]]; then
1110             return 1

```

```

1111         fi
1112     fi

1114     return 0
1115 }

1117 function verify_fs_recordsize
1118 {
1119     typeset user=$1
1120     typeset perm=$2
1121     typeset fs=$3

1123     typeset value8k=$(( 1024 * 8 ))
1124     user_run $user $ZFS set recordsize=$value8k $fs
1125     if [[ $value8k != $(get_prop recordsize $fs) ]]; then
1126         return 1
1127     fi

1129     return 0
1130 }

1132 function verify_fs_quota
1133 {
1134     typeset user=$1
1135     typeset perm=$2
1136     typeset fs=$3

1138     typeset value32m=$(( 1024 * 1024 * 32 ))
1139     user_run $user $ZFS set quota=$value32m $fs
1140     if [[ $value32m != $(get_prop quota $fs) ]]; then
1141         return 1
1142     fi

1144     return 0
1145 }

1147 function verify_fs_aclmode
1148 {
1149     typeset user=$1
1150     typeset perm=$2
1151     typeset fs=$3

1153     typeset oldval
1154     set -A modes "discard" "groupmask" "passthrough"
1155     oldval=$(get_prop $perm $fs)
1156     if [[ $oldval == "discard" ]]; then
1157         n=1
1158     elif [[ $oldval == "groupmask" ]]; then
1159         n=2
1160     elif [[ $oldval == "passthrough" ]]; then
1161         n=0
1162     fi
1163     log_note "$user $ZFS set aclmode=${modes[$n]} $fs"
1164     user_run $user $ZFS set aclmode=${modes[$n]} $fs
1165     if [[ ${modes[$n]} != $(get_prop aclmode $fs) ]]; then
1166         return 1
1167     fi

1169     return 0
1170 }

1172 function verify_fs_aclinherit
1173 {
1174     typeset user=$1
1175     typeset perm=$2
1176     typeset fs=$3

```



```

1178 #
1179 # PSARC/2008/231 change the default value of aclinherit to "restricted"
1180 # but still keep the old interface of "secure"
1181 #
1182
1183 typeset oldval
1184 set -A modes "discard" "noallow" "secure" "passthrough"
1185 oldval=$(get_prop $perm $fs)
1186 if [[ $oldval == "discard" ]]; then
1187     n=1
1188 elif [[ $oldval == "noallow" ]]; then
1189     n=2
1190 elif [[ $oldval == "secure" || $oldval == "restricted" ]]; then
1191     n=3
1192 elif [[ $oldval == "passthrough" ]]; then
1193     n=0
1194 fi
1195 log_note "$user $ZFS set aclinherit=${modes[$n]} $fs"
1196 user_run $user $ZFS set aclinherit=${modes[$n]} $fs
1197
1198 typeset newval=$(get_prop aclinherit $fs)
1199 if [[ ${modes[$n]} == "secure" && $newval == "restricted" ]]; then
1200     return 0
1201 elif [[ ${modes[$n]} != $(get_prop aclinherit $fs) ]]; then
1202     return 1
1203 fi
1204
1205 return 0
1206 }
1207
1208 function verify_fs_snapdir
1209 {
1210     typeset user=$1
1211     typeset perm=$2
1212     typeset fs=$3
1213
1214     typeset oldval
1215     set -A modes "visible" "hidden"
1216     oldval=$(get_prop $perm $fs)
1217     if [[ $oldval == "visible" ]]; then
1218         n=1
1219     elif [[ $oldval == "hidden" ]]; then
1220         n=0
1221     fi
1222     log_note "$user $ZFS set snapdir=${modes[$n]} $fs"
1223     user_run $user $ZFS set snapdir=${modes[$n]} $fs
1224     if [[ ${modes[$n]} != $(get_prop snapdir $fs) ]]; then
1225         return 1
1226     fi
1227
1228     return 0
1229 }
1230
1231 function verify_fs_aedsx
1232 {
1233     typeset user=$1
1234     typeset perm=$2
1235     typeset fs=$3
1236
1237     typeset oldval
1238     set -A modes "on" "off"
1239     oldval=$(get_prop $perm $fs)
1240     if [[ $oldval == "on" ]]; then
1241         n=1
1242     elif [[ $oldval == "off" ]]; then

```

```

1243         n=0
1244     fi
1245     log_note "$user $ZFS set $perm=${modes[$n]} $fs"
1246     user_run $user $ZFS set $perm=${modes[$n]} $fs
1247     if [[ ${modes[$n]} != $(get_prop $perm $fs) ]]; then
1248         return 1
1249     fi
1250
1251     return 0
1252 }
1253
1254 function verify_fs_zoned
1255 {
1256     typeset user=$1
1257     typeset perm=$2
1258     typeset fs=$3
1259
1260     typeset oldval
1261     set -A modes "on" "off"
1262     oldval=$(get_prop $perm $fs)
1263     if [[ $oldval == "on" ]]; then
1264         n=1
1265     elif [[ $oldval == "off" ]]; then
1266         n=0
1267     fi
1268     log_note "$user $ZFS set $perm=${modes[$n]} $fs"
1269     if is_global_zone ; then
1270         if ! ismounted $fs ; then
1271             user_run $user $ZFS set \
1272                 $perm=${modes[$n]} $fs
1273             if [[ ${modes[$n]} != \
1274                 $(get_prop $perm $fs) ]]; then
1275                 return 1
1276             fi
1277             if [[ $n -eq 0 ]]; then
1278                 log_mustnot $ZFS mount $fs
1279             else
1280                 log_must $ZFS mount $fs
1281             fi
1282         fi
1283
1284         if ismounted $fs; then
1285             # n always is 1 in this case
1286             user_run $user $ZFS set \
1287                 $perm=${modes[$n]} $fs
1288             if [[ $oldval != \
1289                 $(get_prop $perm $fs) ]]; then
1290                 return 1
1291             fi
1292
1293             # mount permission is needed
1294             # to make zoned=on
1295             log_must $ZFS allow $user mount $fs
1296             user_run $user $ZFS set \
1297                 $perm=${modes[$n]} $fs
1298             log_must $ZFS unallow $user mount $fs
1299             if [[ ${modes[$n]} != \
1300                 $(get_prop $perm $fs) ]]; then
1301                 return 1
1302             fi
1303         fi
1304     fi
1305
1306     if ! is_global_zone; then
1307         user_run $user $ZFS set $perm=${modes[$n]} $fs
1308         if [[ $oldval != $(get_prop $perm $fs) ]]; then

```

```

1309         return 1
1310     fi
1311 fi
1313     return 0
1314 }

1316 function verify_fs_sharenfs
1317 {
1318     typeset user=$1
1319     typeset perm=$2
1320     typeset fs=$3

1322     typeset oldval
1323     set -A modes "on" "off"
1324     oldval=$(get_prop $perm $fs)
1325     if [[ $oldval == "on" ]]; then
1326         n=1
1327     elif [[ $oldval == "off" ]]; then
1328         n=0
1329     fi
1330     log_note "$user $ZFS set $perm=${modes[$n]} $fs"
1331     user_run $user $ZFS set $perm=${modes[$n]} $fs
1332     if [[ ${modes[$n]} != $(get_prop $perm $fs) ]]; then
1333         return 1
1334     fi
1335     log_must $ZFS set $perm=$oldval $fs

1337     # turn on nfs/server service if it is not enabled
1338     typeset tmpshare=/var/tmp/a.$$
1339     $RM -rf $tmpshare
1340     log_must $MKDIR -p $tmpshare
1341     log_must $SHARE $tmpshare

1343     log_note "$user $ZFS set $perm=${modes[$n]} $fs"
1344     user_run $user $ZFS set $perm=${modes[$n]} $fs
1345     if [[ ${modes[$n]} != $(get_prop $perm $fs) ]]; then
1346         return 1
1347     fi

1349     user_run $user $ZFS share $fs
1350     if is_shared $fs; then
1351         return 1
1352     fi

1354     # share permission is needed
1355     log_must $ZFS allow $user share $fs
1356     user_run $user $ZFS share $fs
1357     log_must $ZFS unallow $user share $fs

1359     if [[ $n -eq 0 ]] && ! is_shared $fs ; then
1360         log_must $UNSHARE $tmpshare
1361         log_must $RM -rf $tmpshare
1362         return 1
1363     fi

1365     if [[ $n -eq 1 ]] && is_shared $fs ; then
1366         log_must $UNSHARE $tmpshare
1367         log_must $RM -rf $tmpshare
1368         return 1
1369     fi

1371     log_must $UNSHARE $tmpshare
1372     log_must $RM -rf $tmpshare

1374     return 0

```

```

1375 }

1377 function verify_vol_destroy
1378 {
1379     typeset user=$1
1380     typeset perm=$2
1381     typeset vol=$3

1383     user_run $user $ZFS destroy $vol
1384     if ! datasetexists $vol ; then
1385         return 1
1386     fi

1388     # mount permission is required
1389     log_must $ZFS allow $user mount $vol
1390     user_run $user $ZFS destroy $vol
1391     if datasetexists $vol ; then
1392         return 1
1393     fi

1395     return 0
1396 }

1398 function verify_vol_snapshot
1399 {
1400     typeset user=$1
1401     typeset perm=$2
1402     typeset vol=$3

1404     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
1405     typeset basevol=${vol%/*}
1406     typeset snap=$vol@snap.$stamp

1408     user_run $user $ZFS snapshot $snap
1409     if datasetexists $snap ; then
1410         return 1
1411     fi

1413     log_must $ZFS allow $user mount $vol
1414     user_run $user $ZFS snapshot $snap
1415     log_must $ZFS unallow $user mount $vol
1416     if ! datasetexists $snap ; then
1417         return 1
1418     fi

1420     return 0
1421 }

1423 function verify_vol_rollback
1424 {
1425     typeset user=$1
1426     typeset perm=$2
1427     typeset vol=$3

1429     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
1430     typeset basevol=${vol%/*}
1431     typeset snap=$vol@snap.$stamp

1433     typeset oldval
1434     log_must $ZFS snapshot $snap
1435     oldval=$(datasetcksum $vol)

1437     log_must $DD if=/dev/random of=/dev/zvol/rdisk/$vol \
1438         bs=512 count=1

1440     user_run $user $ZFS rollback -R $snap

```

```

1441     $SLEEP 10
1442     if [[ $oldval == $(datasetcksum $vol) ]]; then
1443         return 1
1444     fi

1446     # rollback on volume has to be with mount permission
1447     log_must $ZFS allow $user mount $vol
1448     user_run $user $ZFS rollback -R $snap
1449     $SLEEP 10
1450     log_must $ZFS unallow $user mount $vol
1451     if [[ $oldval != $(datasetcksum $vol) ]]; then
1452         return 1
1453     fi

1455     return 0
1456 }

1458 function verify_vol_clone
1459 {
1460     typeset user=$1
1461     typeset perm=$2
1462     typeset vol=$3

1464     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
1465     typeset basevol=${vol%/*}
1466     typeset snap=$vol@snap.$stamp
1467     typeset clone=$basevol/cvol.$stamp

1469     log_must $ZFS snapshot $snap

1471     user_run $user $ZFS clone $snap $clone
1472     if datasetexists $clone ; then
1473         return 1
1474     fi

1476     log_must $ZFS allow $user create $basevol
1477     user_run $user $ZFS clone $snap $clone
1478     log_must $ZFS unallow $user create $basevol
1479     if datasetexists $clone ; then
1480         return 1
1481     fi

1483     log_must $ZFS allow $user mount $basevol
1484     user_run $user $ZFS clone $snap $clone
1485     log_must $ZFS unallow $user mount $basevol
1486     if datasetexists $clone ; then
1487         return 1
1488     fi

1490     # require create permission on parent and
1491     # mount permission on itself as well
1492     log_must $ZFS allow $user mount $basevol
1493     log_must $ZFS allow $user create $basevol
1494     user_run $user $ZFS clone $snap $clone
1495     log_must $ZFS unallow $user create $basevol
1496     log_must $ZFS unallow $user mount $basevol
1497     if ! datasetexists $clone ; then
1498         return 1
1499     fi

1501     return 0
1502 }

1504 function verify_vol_rename
1505 {
1506     typeset user=$1

```

```

1507     typeset perm=$2
1508     typeset vol=$3

1510     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
1511     typeset basevol=${vol%/*}
1512     typeset snap=$vol@snap.$stamp
1513     typeset clone=$basevol/cvol.$stamp
1514     typeset renamevol=$basevol/nvol.$stamp

1516     user_run $user $ZFS rename $vol $renamevol
1517     if datasetexists $renamevol ; then
1518         return 1
1519     fi

1521     log_must $ZFS allow $user create $basevol
1522     user_run $user $ZFS rename $vol $renamevol
1523     log_must $ZFS unallow $user create $basevol
1524     if datasetexists $renamevol ; then
1525         return 1
1526     fi

1528     log_must $ZFS allow $user mount $basevol
1529     user_run $user $ZFS rename $vol $renamevol
1530     log_must $ZFS unallow $user mount $basevol
1531     if datasetexists $renamevol ; then
1532         return 1
1533     fi

1535     # require both create permission on parent and
1536     # mount permission on parent as well
1537     log_must $ZFS allow $user mount $basevol
1538     log_must $ZFS allow $user create $basevol
1539     user_run $user $ZFS rename $vol $renamevol
1540     log_must $ZFS unallow $user mount $basevol
1541     log_must $ZFS unallow $user create $basevol
1542     if ! datasetexists $renamevol ; then
1543         return 1
1544     fi

1546     log_must $ZFS rename $renamevol $vol

1548     return 0
1549 }

1551 function verify_vol_promote
1552 {
1553     typeset user=$1
1554     typeset perm=$2
1555     typeset vol=$3

1557     typeset stamp=${perm}.${user}.${DATE +%F-%H%M%S'}
1558     typeset basevol=${vol%/*}
1559     typeset snap=$vol@snap.$stamp
1560     typeset clone=$basevol/cvol.$stamp

1562     log_must $ZFS snapshot $snap
1563     log_must $ZFS clone $snap $clone
1564     log_must $ZFS promote $clone

1566     typeset vol_orig=$(get_prop origin $vol)
1567     typeset clone_orig=$(get_prop origin $clone)

1569     # promote should fail if $vol and $clone
1570     # miss either mount or promote permission
1571     # case 1
1572     user_run $user $ZFS promote $vol

```

```

1573     if [[ $vol_orig != $(get_prop origin $vol) || \
1574         $clone_orig != $(get_prop origin $clone) ]];
1575     then
1576         return 1
1577     fi
1578
1579     # promote should fail if $vol and $clone
1580     # miss either mount or promote permission
1581     # case 2
1582     log_must $ZFS allow $user promote $clone
1583     user_run $user $ZFS promote $vol
1584     log_must $ZFS unallow $user promote $clone
1585     if [[ $vol_orig != $(get_prop origin $vol) || \
1586         $clone_orig != $(get_prop origin $clone) ]];
1587     then
1588         return 1
1589     fi
1590
1591     # promote should fail if $vol and $clone
1592     # miss either mount or promote permission
1593     # case 3
1594     log_must $ZFS allow $user mount $vol
1595     user_run $user $ZFS promote $vol
1596     log_must $ZFS unallow $user mount $vol
1597     if [[ $vol_orig != $(get_prop origin $vol) || \
1598         $clone_orig != $(get_prop origin $clone) ]];
1599     then
1600         return 1
1601     fi
1602
1603     # promote should fail if $vol and $clone
1604     # miss either mount or promote permission
1605     # case 4
1606     log_must $ZFS allow $user mount $clone
1607     user_run $user $ZFS promote $vol
1608     log_must $ZFS unallow $user mount $clone
1609     if [[ $vol_orig != $(get_prop origin $vol) || \
1610         $clone_orig != $(get_prop origin $clone) ]];
1611     then
1612         return 1
1613     fi
1614
1615     # promote should fail if $vol and $clone
1616     # miss either mount or promote permission
1617     # case 5
1618     log_must $ZFS allow $user promote $clone
1619     log_must $ZFS allow $user mount $vol
1620     user_run $user $ZFS promote $vol
1621     log_must $ZFS unallow $user promote $clone
1622     log_must $ZFS unallow $user mount $vol
1623     if [[ $vol_orig != $(get_prop origin $vol) || \
1624         $clone_orig != $(get_prop origin $clone) ]];
1625     then
1626         return 1
1627     fi
1628
1629     # promote should fail if $vol and $clone
1630     # miss either mount or promote permission
1631     # case 6
1632     log_must $ZFS allow $user promote $clone
1633     log_must $ZFS allow $user mount $clone
1634     user_run $user $ZFS promote $vol
1635     log_must $ZFS unallow $user promote $clone
1636     log_must $ZFS unallow $user mount $vol
1637     if [[ $vol_orig != $(get_prop origin $vol) || \
1638         $clone_orig != $(get_prop origin $clone) ]];

```

```

1639     then
1640         return 1
1641     fi
1642
1643     # promote should fail if $vol and $clone
1644     # miss either mount or promote permission
1645     # case 7
1646     log_must $ZFS allow $user mount $vol
1647     log_must $ZFS allow $user mount $clone
1648     user_run $user $ZFS promote $vol
1649     log_must $ZFS unallow $user mount $vol
1650     log_must $ZFS unallow $user mount $clone
1651     if [[ $vol_orig != $(get_prop origin $vol) || \
1652         $clone_orig != $(get_prop origin $clone) ]];
1653     then
1654         return 1
1655     fi
1656
1657     # promote only succeeds when $vol and $clone
1658     # have both mount and promote permission
1659     # case 8
1660     log_must $ZFS allow $user promote $clone
1661     log_must $ZFS allow $user mount $vol
1662     log_must $ZFS allow $user mount $clone
1663     user_run $user $ZFS promote $vol
1664     log_must $ZFS unallow $user promote $clone
1665     log_must $ZFS unallow $user mount $vol
1666     log_must $ZFS unallow $user mount $clone
1667     if [[ $snap != $(get_prop origin $clone) || \
1668         $clone_orig != $(get_prop origin $vol) ]]; then
1669         return 1
1670     fi
1671
1672     return 0
1673 }
1674
1675 function verify_vol_volsize
1676 {
1677     typeset user=$1
1678     typeset perm=$2
1679     typeset vol=$3
1680
1681     typeset oldval
1682     oldval=$(get_prop volsize $vol)
1683     (( newval = oldval * 2 ))
1684
1685     reserv_size=$(get_prop reservation $vol)
1686
1687     if [[ "0" == $reserv_size ]]; then
1688         # sparse volume
1689         user_run $user $ZFS set volsize=$newval $vol
1690         if [[ $oldval == $(get_prop volsize $vol) ]];
1691         then
1692             return 1
1693         fi
1694     else
1695         # normal volume, reservation permission
1696         # is required
1697         user_run $user $ZFS set volsize=$newval $vol
1698         if [[ $newval == $(get_prop volsize $vol) ]];
1699         then
1700             return 1
1701         fi
1702     fi
1703
1704     log_must $ZFS allow $user reservation $vol

```

```
1705         log_must $ZFS allow $user refreservation $vol
1706         user_run $user $ZFS set volsize=$newval $vol
1707         log_must $ZFS unallow $user reservation $vol
1708         log_must $ZFS unallow $user refreservation $vol
1709         if [[ $oldval == $(get_prop volsize $vol) ]];
1710         then
1711             return 1
1712         fi
1713     fi
1714
1715     return 0
1716 }
1717
1718 function verify_allow
1719 {
1720     typeset user=$1
1721     typeset perm=$2
1722     typeset dtst=$3
1723
1724     typeset -i ret
1725
1726     user_run $user $ZFS allow $user allow $dtst
1727     ret=$?
1728     if [[ $ret -eq 0 ]]; then
1729         return 1
1730     fi
1731
1732     log_must $ZFS allow $user copies $dtst
1733     user_run $user $ZFS allow $user copies $dtst
1734     ret=$?
1735     log_must $ZFS unallow $user copies $dtst
1736     if [[ $ret -eq 1 ]]; then
1737         return 1
1738     fi
1739
1740     return 0
1741 }
1742 }
```

new/usr/src/test/zfs-tests/tests/functional/delegate/setup.ksh

1

1782 Fri Nov 22 15:20:02 2013

new/usr/src/test/zfs-tests/tests/functional/delegate/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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Reviewed by: Eric Diven <eric.diven@delphix.com>

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```
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 # check svc:/network/nis/client:default state
35 # disable it if the state is ON
36 # and the state will be restored during cleanup.ksh
37 log_must $RM -f $NISSTAFILE
38 if [[ "ON" == $($SVCS -H -o sta svc:/network/nis/client:default) ]]; then
39     log_must $SVCADM disable -t svc:/network/nis/client:default
40     log_must $TOUCH $NISSTAFILE
41 fi
42 #
43 cleanup_user_group
44 #
45 # Create staff group and add two user to it
46 log_must add_group $STAFF_GROUP
47 log_must add_user $STAFF_GROUP $STAFF1
48 log_must add_user $STAFF_GROUP $STAFF2
49 #
50 # Create other group and add two user to it
51 log_must add_group $OTHER_GROUP
52 log_must add_user $OTHER_GROUP $OTHER1
53 log_must add_user $OTHER_GROUP $OTHER2
```

new/usr/src/test/zfs-tests/tests/functional/delegate/setup.ksh

2

55 DISK=\${DISKS%% *}

56 default_volume_setup \$DISK

57 log_must \$CHMOD 777 \$TESTDIR

59 log_pass

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_001_pos.ksh 1

```
*****
2608 Fri Nov 22 15:20:02 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 # "everyone" is interpreted as the keyword "everyone" whatever the same
37 # name user or group is existing.
38 #
39 # STRATEGY:
40 # 1. Create user 'everyone'.
41 # 2. Verify 'everyone' is interpreted as keywords.
42 # 3. Create group 'everyone'.
43 # 4. Verify 'everyone' is interpreted as keywords.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     if [[ $user_added == "TRUE" ]]; then
51         del_user everyone
52     fi
53     if [[ $group_added == "TRUE" ]]; then
54         del_group everyone
55     fi
56 }
57 }
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_001_pos.ksh 2

```
55     fi
56 }
57     restore_root_datasets
58 }
59 #
60 log_assert "everyone' is interpreted as a keyword even if a user " \
61 "or group named 'everyone' exists."
62 log_onexit cleanup
63 #
64 eval set -A dataset $DATASETS
65 typeset perms="snapshot,reservation,checksum,send,userprop"
66 #
67 log_note "Create a user called 'everyone'."
68 if ! $ID everyone > /dev/null 2>&1; then
69     user_added="TRUE"
70     log_must $USERADD everyone
71 fi
72 for dtst in $DATASETS ; do
73     log_must $ZFS allow everyone $perms $dtst
74     log_must verify_perm $dtst $perms $EVERYONE "everyone"
75 done
76 log_must restore_root_datasets
77 if [[ $user_added == "TRUE" ]]; then
78     log_must $USERDEL everyone
79 fi
80 #
81 log_note "Created a group called 'everyone'."
82 if ! $CAT /etc/group | $AWK -F: '{print $1}' | \
83     $GREP -w 'everyone' > /dev/null 2>&1;
84 then
85     group_added="TRUE"
86     log_must $GROUPADD everyone
87 fi
88 #
89 for dtst in $DATASETS ; do
90     log_must $ZFS allow everyone $perms $dtst
91     log_must verify_perm $dtst $perms $EVERYONE
92 done
93 log_must restore_root_datasets
94 if [[ $group_added == "TRUE" ]]; then
95     log_must $GROUPDEL everyone
96 fi
97 #
98 log_pass "everyone is always interpreted as keyword passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_002_pos.ksh 1

```
*****
2248 Fri Nov 22 15:20:03 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 # <user|group> argument is interpreted as a user if possible, then as a group as
37 # possible.
38 #
39 # STRATEGY:
40 # 1. Create user $STAFF_GROUP
41 # 2. Delegate permissions to $STAFF_GROUP
42 # 3. Verify user $STAFF_GROUP has the permissions.
43 # 4. Delete user $STAFF_GROUP and allow the permission to $STAFF_GROUP
44 # 5. Verify $STAFF_GROUP is interpreted as group.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     if $UID $STAFF_GROUP > /dev/null 2>&1; then
52         log_must del_user $STAFF_GROUP
53     fi
54 }
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_002_pos.ksh 2

```
55     restore_root_datasets
56 }
57 #
58 log_assert "<user|group> is interpreted as user if possible, then as group."
59 log_onexit cleanup
60 #
61 eval set -A dataset $DATASETS
62 typeset perms="snapshot,reservation,compression,checksum,send,userprop"
63 #
64 log_must $USERADD $STAFF_GROUP
65 for dtst in $DATASETS ; do
66     log_must $ZFS allow $STAFF_GROUP $perms $dtst
67     log_must verify_perm $dtst $perms $STAFF_GROUP
68     log_must verify_noperm $dtst $perms $STAFF1 $STAFF2
69 done
70 #
71 log_must restore_root_datasets
72 #
73 log_must del_user $STAFF_GROUP
74 for dtst in $datasets ; do
75     log_must $ZFS allow $STAFF_GROUP $perms $dtst
76     log_must verify_perm $dtst $perms $STAFF1 $STAFF2
77 done
78 #
79 log_pass "<user|group> is interpreted as user if possible, then as group passed."
```



```

*****
2696 Fri Nov 22 15:20:03 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify option '-l' only allow permission to the dataset itself.
37 #
38 # STRATEGY:
39 #     1. Create descendent datasets of $ROOT_TESTFS
40 #     2. Select user, group and everyone and set local permission separately.
41 #     3. Set locally permissions to $ROOT_TESTFS or $ROOT_TESTVOL.
42 #     4. Verify the permissions are only allow on $ROOT_TESTFS or
43 #        $ROOT_TESTVOL.
44 #
45 #
46 verify_runnable "both"
47 #
48 log_assert "Verify option '-l' only allow permission to the dataset itself."
49 log_onexit restore_root_datasets
50 #
51 childfs=$ROOT_TESTFS/childfs
52 #
53 eval set -A dataset $DATASETS
54 typeset perms="snapshot,reservation,compression,checksum,userprop"

```

```

55 log_must $ZFS create $childfs
56 #
57 #
58 for dtst in $DATASETS ; do
59     log_must $ZFS allow -l $STAFF1 $perms $dtst
60     log_must verify_perm $dtst $perms $STAFF1
61     if [[ $dtst == $ROOT_TESTFS ]] ; then
62         log_must verify_noperm $childfs $perms \
63             $STAFF1 $STAFF2 $OTHER1 $OTHER2
64     fi
65 done
66 #
67 log_must restore_root_datasets
68 #
69 log_must $ZFS create $childfs
70 for dtst in $DATASETS ; do
71     log_must $ZFS allow -l -g $STAFF_GROUP $perms $dtst
72     log_must verify_perm $dtst $perms $STAFF1 $STAFF2
73     if [[ $dtst == $ROOT_TESTFS ]] ; then
74         log_must verify_noperm $childfs $perms \
75             $STAFF1 $STAFF2 $OTHER1 $OTHER2
76     fi
77 done
78 #
79 log_must restore_root_datasets
80 #
81 log_must $ZFS create $childfs
82 for dtst in $DATASETS ; do
83     log_must $ZFS allow -l -e $perms $dtst
84     log_must verify_perm $dtst $perms $STAFF1 $STAFF2 $OTHER1 $OTHER2
85     if [[ $dtst == $ROOT_TESTFS ]] ; then
86         log_must verify_noperm $childfs $perms \
87             $STAFF1 $STAFF2 $OTHER1 $OTHER2
88     fi
89 done
90 #
91 log_must restore_root_datasets
92 #
93 log_pass "Verify option '-l' only allow permission to the dataset itself pass."

```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_004_pos.ksh 1

```
*****
2884 Fri Nov 22 15:20:03 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify option '-d' allow permission to the descendent datasets, and not
37 #     for this dataset itself.
38 #
39 # STRATEGY:
40 #     1. Create descendent datasets of $ROOT_TESTFS
41 #     2. Select user, group and everyone and set descendent permission
42 #        separately.
43 #     3. Set descendent permissions to $ROOT_TESTFS or $ROOT_TESTVOL.
44 #     4. Verify those permissions are allowed to $ROOT_TESTFS's
45 #        descendent dataset.
46 #     5. Verify the permissions are not allowed to $ROOT_TESTFS or
47 #        $ROOT_TESTVOL.
48 #
49 #
50 verify_runnable "both"
51 #
52 log_assert "Verify option '-d' allow permission to the descendent datasets."
53 log_onexit restore_root_datasets
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_004_pos.ksh 2

```
55 childfs=$ROOT_TESTFS/childfs
57 eval set -A dataset $DATASETS
58 typeset perms="snapshot,reservation,checksum,userprop"
59 #
60 # Verify option '-d' only affect sub-datasets
61 log_must $ZFS create $childfs
62 for dtst in $DATASETS ; do
63     log_must $ZFS allow -d $STAFF1 $perms $dtst
64     log_must verify_noperm $dtst $perms $STAFF1
65     if [[ $dtst == $ROOT_TESTFS ]]; then
66         log_must verify_perm $childfs $perms $STAFF1
67     fi
68 done
69 #
70 log_must restore_root_datasets
71 #
72 # Verify option '-d + -g' affect group in sub-datasets.
73 log_must $ZFS create $childfs
74 for dtst in $DATASETS ; do
75     log_must $ZFS allow -d -g $STAFF_GROUP $perms $dtst
76     log_must verify_noperm $dtst $perms $STAFF2
77     if [[ $dtst == $ROOT_TESTFS ]]; then
78         log_must verify_perm $childfs $perms $STAFF2
79     fi
80 done
81 #
82 log_must restore_root_datasets
83 #
84 # Verify option '-d + -e' affect everyone in sub-datasets.
85 log_must $ZFS create $childfs
86 for dtst in $DATASETS ; do
87     log_must $ZFS allow -d -e $perms $dtst
88     log_must verify_noperm $dtst $perms $OTHER1 $OTHER2
89     if [[ $dtst == $ROOT_TESTFS ]]; then
90         log_must verify_perm $childfs $perms $OTHER1 $OTHER2
91     fi
92 done
93 #
94 log_must restore_root_datasets
95 #
96 log_pass "Verify option '-d' allow permission to the descendent datasets pass."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_005_pos.ksh 1

```
*****
2236 Fri Nov 22 15:20:04 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify option '-c' will be granted locally to the creator on any
37 #     newly-created descendent file systems.
38 #
39 # STRATEGY:
40 #     1. Allow create permissions to everyone on $ROOT_TESTFS locally.
41 #     2. Allow '-c' create to $ROOT_TESTFS.
42 #     3. chmod 777 the mountpoint of $ROOT_TESTFS
43 #     4. Verify only creator can create descendent dataset on
44 #     $ROOT_TESTFS/$user.
45 #
46 #
47 verify_runnable "both"
48 #
49 log_assert "Verify option '-c' will be granted locally to the creator."
50 log_onexit restore_root_datasets
51 #
52 eval set -A dataset $DATASETS
53 typeset perms="snapshot,reservation,compression,checksum,userprop"
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_005_pos.ksh 2

```
55 log_must $ZFS allow -l everyone create,mount $ROOT_TESTFS
56 log_must $ZFS allow -c $perms $ROOT_TESTFS
57 #
58 mntpnt=$(get_prop mountpoint $ROOT_TESTFS)
59 log_must $CHMOD 777 $mntpnt
60 #
61 for user in $EVERYONE; do
62     childfs=$ROOT_TESTFS/$user
63 #
64     user_run $user $ZFS create $childfs
65 #
66     for other in $EVERYONE; do
67         #
68         # Verify only the creator has the $perm time permissions.
69         #
70         if [[ $other == $user ]]; then
71             log_must verify_perm $childfs $perms $user
72         else
73             log_must verify_noperm $childfs $perms $other
74         fi
75     done
76 done
77 #
78 log_pass "Verify option '-c' will be granted locally to the creator passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_006_pos.ksh 1

```
*****
2155 Fri Nov 22 15:20:04 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Changing permissions in a set will change what is allowed wherever the
37 #     set is used.
38 #
39 # STRATEGY:
40 #     1. Set create as set @basic.
41 #     2. Allow set @basic to $STAFF1 on $ROOT_TESTFS or $ROOT_TESTVOL
42 #     3. Verify $STAFF1 has create permissions.
43 #     4. Reset snapshot,allow to $basic
44 #     5. Verify now $STAFF1 have create,allow,destroy permissions.
45 #
46 #
47 verify_runnable "both"
48 #
49 log_assert "Changing permissions in a set will change what is allowed " \
50     "wherever the set is used."
51 log_onexit restore_root_datasets
52 #
53 fs1=$ROOT_TESTFS/fs1; fs2=$ROOT_TESTFS/fs2
54 log_must $ZFS create $fs1
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_006_pos.ksh 2

```
55 log_must $ZFS create $fs2
56 #
57 eval set -A dataset $DATASETS
58 perms1="snapshot,checksum,reservation"
59 #
60 for dtst in $DATASETS $fs1 $fs2; do
61     log_must $ZFS allow -s @basic $perms1 $dtst
62     log_must $ZFS allow $STAFF1 @basic $dtst
63     log_must verify_perm $dtst $perms1 $STAFF1
64 done
65 #
66 perms2="send,compression,userprop"
67 for dtst in $DATASETS $fs1 $fs2; do
68     log_must $ZFS allow -s @basic $perms2 $dtst
69     log_must verify_perm $dtst ${perms1},${perms2} $STAFF1
70 done
71 #
72 log_pass "Changing permissions in a set will change what is allowed passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_007_pos.ksh 1

```
*****
3180 Fri Nov 22 15:20:04 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify the permissions set will be masked on its descendent
37 #     datasets by same name set.
38 #
39 # STRATEGY:
40 #     1. Create $ROOT_TESTFS/childfs
41 #     2. Set permission $perms1 to @set on $ROOT_TESTFS
42 #     3. Reset permission $perms2 to @set on $ROOT_TESTFS/childfs
43 #     4. Allow @set to $STAFF1 on $ROOT_TESTFS/childfs
44 #     5. Verify $perms2 is delegated on $ROOT_TESTFS/childfs and its
45 #     descendent.
46 #     6. Allow @set to $STAFF1 on $ROOT_TESTFS
47 #     7. Verify $perms1 is not appended to $STAFF1 on $ROOT_TESTFS/childfs and
48 #     its descendent since it is masked
49 #
50 #
51 verify_runnable "both"
52 #
53 log_assert "Verify permission set can be masked on descendent dataset."
54 log_onexit restore_root_datasets
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_007_pos.ksh 2

```
56 typeset perms1="snapshot,reservation,compression"
57 eval set -A dataset $DATASETS
58 typeset perms2="checksum,send,userprop"
59 #
60 #
61 # Define three level filesystems
62 #
63 childfs=$ROOT_TESTFS/childfs
64 grandchild=$childfs/grandchild
65 log_must $ZFS create $childfs
66 log_must $ZFS create $grandchild
67 #
68 #
69 # Setting different permissions to the same set on two level.
70 # But only assign the user at one level.
71 #
72 log_must $ZFS allow -s @set $perms1 $ROOT_TESTFS
73 log_must $ZFS allow -s @set $perms2 $childfs
74 log_must $ZFS allow $STAFF1 @set $childfs
75 #
76 #
77 # Verify only perms2 is valid to user on the level which he was assigned.
78 #
79 log_must verify_noperm $ROOT_TESTFS $perms1 $STAFF1
80 for fs in $childfs $grandchild ; do
81     log_must verify_noperm $fs $perms1 $STAFF1
82     log_must verify_perm $fs $perms2 $STAFF1
83 done
84 #
85 #
86 # Delegate @set to STAFF1 on ROOT_TESTFS, verify $perms1 will not be appended
87 # to its descendent datasets since it is masked
88 #
89 log_must $ZFS allow $STAFF1 @set $ROOT_TESTFS
90 log_must verify_perm $ROOT_TESTFS $perms1 $STAFF1
91 for fs in $childfs $grandchild ; do
92     log_must verify_noperm $fs $perms1 $STAFF1
93     log_must verify_perm $fs $perms2 $STAFF1
94 done
95 #
96 # Remove the mask, $perms1 will be allowed to its descendent datasets
97 log_must $ZFS unallow -s @set $childfs
98 for fs in $childfs $grandchild ; do
99     log_must verify_noperm $fs $perms2 $STAFF1
100     log_must verify_perm $fs $perms1 $STAFF1
101 done
102 #
103 log_pass "Verify permission set can be masked on descendent dataset pass."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_008_pos.ksh 1

```
*****
2443 Fri Nov 22 15:20:05 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     non-root user can allow any permissions which he is holding to
37 #     other else user when it get 'allow' permission.
38 #
39 # STRATEGY:
40 #     1. Set two set permissions to two datasets locally.
41 #     2. Verify the non-root user can allow permission if he has allow
42 #        permission.
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "Verify non-root user can allow permissions."
48 log_onexit restore_root_datasets
49 #
50 perms1="snapshot,reservation"
51 perms2="send,compression,checksum,userprop"
52 childfs=$ROOT_TESTFS/childfs
53 #
54 log_must $ZFS create $childfs
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_008_pos.ksh 2

```
56 for dtst in $DATASETS ; do
57     # Delegate local permission to $STAFF1
58     log_must $ZFS allow -l $STAFF1 $perms1 $dtst
59     log_must $ZFS allow -l $STAFF1 allow $dtst
60 #
61     if [[ $dtst == $ROOT_TESTFS ]]; then
62         log_must $ZFS allow -l $STAFF1 $perms2 $childfs
63         # $perms1 is local permission in $ROOT_TESTFS
64         log_mustnot user_run $STAFF1 $ZFS allow $OTHER1 $perms1 $childfs
65         log_must verify_noperm $childfs $perms1 $OTHER1
66     fi
67 #
68     # Verify 'allow' give non-privilege user delegated permission.
69     log_must user_run $STAFF1 $ZFS allow -l $OTHER1 $perms1 $dtst
70     log_must verify_perm $dtst $perms1 $OTHER1
71 #
72     # $perms2 was not allow to $STAFF1, so he have no permission to
73     # delegate permission to other else.
74     log_mustnot user_run $STAFF1 $ZFS allow $OTHER1 $perms2 $dtst
75     log_must verify_noperm $dtst $perms2 $OTHER1
76 done
77 #
78 log_pass "Verify non-root user can allow permissions passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_009_neg.ksh 1

```
*****
2121 Fri Nov 22 15:20:05 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_009_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs allow can deal with invalid arguments.(Invalid options or combinatio
37 #
38 # STRATEGY:
39 #     1. Verify invalid argumets will cause error.
40 #     2. Verify non-optional argument was missing will cause error.
41 #     3. Verify invalid options cause error.
42 #
43 #
44 verify_runnable "both"
45 #
46 log_assert "Verify invalid arguments are handled correctly."
47 log_onexit restore_root_datasets
48 #
49 # Permission sets are limited to 64 characters in length.
50 longset="set123456789012345678901234567890123456789012345678901234567890123"
51 for dtst in $DATASETS ; do
52     log_mustnot eval "$ZFS allow -s @$longset $dtst"
53     # Create non-existent permission set
54     typeset timestamp=$(($DATE +%F-%R:%S')
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_009_neg.ksh 2

```
55     log_mustnot $ZFS allow -s @non-existent $dtst
56     log_mustnot $ZFS allow $STAFF "atime,created,mounted" $dtst
57     log_mustnot $ZFS allow $dtst $TESTPOOL
58     log_mustnot $ZFS allow -c $dtst
59     log_mustnot $ZFS allow -u $STAFF1 $dtst
60     log_mustnot $ZFS allow -u $STAFF1 -g $STAFF_GROUP "create,destroy" $dtst
61     log_mustnot $ZFS allow -u $STAFF1 -e "mountpoint" $dtst
62 done
63 #
64 log_pass "Invalid arguments are handled correctly."
```

```

*****
3030 Fri Nov 22 15:20:05 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_010_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 # DESCRIPTION:
35 # Scan the following permissions one by one to verify privileged user
36 # has correct permission delegation in datasets.
37 #
38 # STRATEGY:
39 # 1. Delegate all the permission one by one to user on dataset.
40 # 2. Verify privileged user has correct permission without any other
41 # permissions allowed.
42 #
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "Verify privileged user has correct permissions once which was \"
48 "delegated to him in datasets"
49 log_onexit restore_root_datasets
50 #
51 #
52 #
53 # Permission Results in Results in
54 # Filesystem Volume

```

```

55 set -A perms create true false \
56 snapshot true true \
57 mount true false \
58 send true true \
59 allow true true \
60 quota true false \
61 reservation true true \
62 recordsize true false \
63 mountpoint true false \
64 checksum true true \
65 compression true true \
66 canmount true false \
67 atime true false \
68 devices true false \
69 exec true false \
70 volsize false true \
71 setuid true false \
72 readonly true true \
73 snapdir true false \
74 userprop true true \
75 aclmode true false \
76 aclinherit true false \
77 rollback true true \
78 clone true true \
79 rename true true \
80 promote true true \
81 zoned true false \
82 xattr true false \
83 receive true false \
84 destroy true true
85 if is_global_zone; then
86 typeset -i n=${#perms[@]}
87 perms[((n)]= "share"; perms[((n+1))]= "true"; perms[((n+2))]= "false"
88 perms[((n+3))]= "share"; perms[((n+4))]= "true"; perms[((n+5))]= "false"
89 fi
90 #
91 for dtst in $DATASETS; do
92 typeset -i k=1
93 typeset type=$(get_prop type $dtst)
94 [[ $type == "volume" ]] && k=2
95 #
96 typeset -i i=0
97 while (( i < ${#perms[@]} )); do
98 log_must $ZFS allow $STAFF1 ${perms[$i]} $dtst
99 #
100 if [[ ${perms[((i+k))]} == "true" ]]; then
101 log_must verify_perm $dtst ${perms[$i]} $STAFF1
102 else
103 log_must verify_noperm $dtst ${perms[$i]} $STAFF1
104 fi
105 #
106 log_must restore_root_datasets
107 #
108 ((i += 3))
109 done
110 done
111 #
112 log_pass "Verify privileged user has correct permissions " \
113 "in datasets passed."

```


new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_011_neg.ksh 1

```
*****
1920 Fri Nov 22 15:20:06 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_011_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify zpool subcmds and system readonly properties can't be delegated.
37 #
38 # STRATEGY:
39 #     1. Loop all the zpool subcmds and readonly properties, except permission
40 #        'create' & 'destroy'.
41 #     2. Verify those subcmd or properties can't be delegated.
42 #
43 #
44 verify_runnable "both"
45 #
46 log_assert "Verify zpool subcmds and system readonly properties can't be " \
47 "delegated."
48 log_onexit restore_root_datasets
49 #
50 set -A invalid_perms \
51     add          remove      list          iostat       \
52     status       offline     online        clear         \
53     attach       detach      replace       scrub         \
54     export       import       upgrade       \
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_011_neg.ksh 2

```
55     type          creation    used          available    \
56     referenced    compressratio mounted
57 #
58 for dtst in $DATASETS ; do
59     typeset -i i=0
60 #
61     while ((i < ${#invalid_perms[@]}); do
62         log_mustnot $ZFS allow $STAFF1 ${invalid_perms[$i]} $dtst
63     done
64     ((i += 1))
65 done
66 done
67 #
68 log_pass "Verify zpool subcmds and system readonly properties passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_012_neg.ksh 1

```
*****
2296 Fri Nov 22 15:20:06 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_012_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Scan all permissions one by one to verify privileged user
37 #     can not use permissions properly when delegation property is set off
38 #
39 # STRATEGY:
40 #     1. Delegate all the permission one by one to user on dataset.
41 #     2. Verify privileged user can not use permissions properly when
42 #     delegation property is off
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     log_must $ZPOOL set delegation=on $TESTPOOL
50     log_must restore_root_datasets
51 }
52 #
53 log_assert "Verify privileged user can not use permissions properly when " \
54     "delegation property is set off"
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_allow_012_neg.ksh 2

```
55 log_onexit cleanup
56 #
57 #
58 set -A perms      create snapshot mount send allow quota reservation \
59                  recordsize mountpoint checksum compression canmount atime \
60                  devices exec volsize setuid readonly snapdir userprop \
61                  aclmode aclinherit rollback clone rename promote \
62                  zoned xattr receive destroy sharenfs share
63 #
64 log_must $ZPOOL set delegation=off $TESTPOOL
65 #
66 for dtst in $DATASETS; do
67     typeset -i i=0
68     while (( i < ${#perms[@]} )); do
69         log_must $ZFS allow $STAFF1 ${perms[$i]} $dtst
70         log_must verify_noperm $dtst ${perms[$i]} $STAFF1
71     done
72 done
73 log_must restore_root_datasets
74 ((i += 1))
75 done
76 done
77 #
78 log_pass "Verify privileged user can not use permissions properly when " \
79     "delegation property is set off"
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_001_pos.ksh 1

```
*****
1899 Fri Nov 22 15:20:06 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify '-l' only removed the local permissions.
37 #
38 # STRATEGY:
39 #     1. Set up unallow test model.
40 #     2. Implement unallow -l to $ROOT_TESTFS or $TESTVOL
41 #     3. Verify '-l' only remove the local permissions.
42 #
43 #
44 verify_runnable "both"
45 #
46 log_assert "Verify '-l' only removed the local permissions."
47 log_onexit restore_root_datasets
48 #
49 log_must setup_unallow_testenv
50 #
51 for dtst in $DATASETS ; do
52     log_must $ZFS unallow -l $STAFF1 $dtst
53     log_must verify_noperm $dtst $LOCAL_SET $STAFF1
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_001_pos.ksh 2

```
55     log_must $ZFS unallow -l $OTHER1 $dtst
56     log_must verify_noperm $dtst $LOCAL_DESC_SET $OTHER1
57 #
58     log_must verify_perm $dtst $LOCAL_DESC_SET $OTHER2
59     if [[ $dtst == $ROOT_TESTFS ]]; then
60         log_must verify_perm $SUBFS $LOCAL_DESC_SET $OTHER1 $OTHER2
61         log_must verify_perm $SUBFS $DESC_SET $STAFF2
62     fi
63 done
64 #
65 log_pass "Verify '-l' only removed the local permissions passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_002_pos.ksh 1

```
*****
1876 Fri Nov 22 15:20:07 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify '-d' only remove the permissions on descendent filesystem.
37 #
38 # STRATEGY:
39 #     1. Set up unallow test model.
40 #     2. Implement unallow -d to $ROOT_TESTFS
41 #     3. Verify '-d' only remove the permissions on descendent filesystem.
42 #
43 #
44 verify_runnable "both"
45 #
46 log_assert "Verify '-d' only removed the descendent permissions."
47 log_onexit restore_root_datasets
48 #
49 log_must setup_unallow_testenv
50 #
51 log_must $ZFS unallow -d $STAFF2 $ROOT_TESTFS
52 log_must verify_noperm $SUBFS $DESC_SET $STAFF2
53 #
54 log_must $ZFS unallow -d $OTHER1 $ROOT_TESTFS
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_002_pos.ksh 2

```
55 log_must verify_noperm $SUBFS $LOCAL_DESC_SET $OTHER1
56 log_must verify_perm $ROOT_TESTFS $LOCAL_DESC_SET $OTHER1
57 #
58 log_must verify_perm $ROOT_TESTFS $LOCAL_DESC_SET $OTHER2
59 log_must verify_perm $SUBFS $LOCAL_DESC_SET $OTHER2
60 #
61 log_pass "Verify '-d' only removed the descendent permissions passed"
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_003_pos.ksh 1

```
*****
2205 Fri Nov 22 15:20:07 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify options '-r' or '-l' + '-d' will unallow permission to this
37 #     dataset and the descendent datasets.
38 #
39 # STRATEGY:
40 #     1. Set up unallow test model.
41 #     2. Implement unallow -l -d to $ROOT_TESTFS or $ROOT_TESTVOL without
42 #     options.
43 #     3. Verify '-l' + '-d' will unallow local + descendent permission.
44 #     4. Verify '-r' will unallow local + descendent permission.
45 #
46 #
47 verify_runnable "both"
48 #
49 log_assert "Verify options '-r' and '-l'+'-d' will unallow permission to " \
50 "this dataset and the descendent datasets."
51 log_onexit restore_root_datasets
52 #
53 log_must setup_unallow_testenv
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_003_pos.ksh 2

```
55 for dtst in $DATASETS ; do
56     log_must $ZFS unallow $STAFF1 $dtst
57     log_must $ZFS unallow -l -d $STAFF2 $dtst
58     log_must verify_noperm $dtst $LOCAL_SET $STAFF1
59     if [[ $dtst == $ROOT_TESTFS ]]; then
60         log_must verify_noperm $SUBFS $DESC_SET $STAFF2
61     fi
62 #
63     log_must $ZFS unallow -l -d $OTHER1 $dtst
64     log_must $ZFS unallow -r $OTHER2 $dtst
65     log_must verify_noperm $dtst $LOCAL_DESC_SET $OTHER1 $OTHER2
66     if [[ $dtst == $ROOT_TESTFS ]]; then
67         log_must verify_noperm $SUBFS $LOCAL_DESC_SET $OTHER1 $OTHER2
68     fi
69 done
70 #
71 log_pass "Verify options '-r' and '-l'+'-d' function passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_004_pos.ksh 1

```
*****
1815 Fri Nov 22 15:20:08 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify '-s' will remove permissions from the named set.
37 #
38 # STRATEGY:
39 #     1. Set @basic set to $ROOT_TESTFS or $ROOT_TESTVOL and allow @basic
40 #        to $STAFF1
41 #     2. Verify $STAFF1 have @basic permissions.
42 #     3. Verify '-s' will remove permission from the named set.
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "Verify '-s' will remove permissions from the named set."
48 log_onexit restore_root_datasets
49 #
50 for dtst in $DATASETS ; do
51     log_must $ZFS allow -s @basic $LOCAL_DESC_SET $dtst
52     log_must $ZFS allow -u $STAFF1 @basic $dtst
53 #
54     log_must verify_perm $dtst $LOCAL_DESC_SET $STAFF1
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_004_pos.ksh 2

```
55     log_must $ZFS unallow -s @basic $LOCAL_DESC_SET $dtst
56     log_must verify_noperm $dtst $LOCAL_DESC_SET $STAFF1
57 done
58 #
59 log_pass "Verify '-s' will remove permissions from the named set passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_005_pos.ksh 1

```
*****
2352 Fri Nov 22 15:20:08 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify option '-c' will remove the created permission set.
37 #
38 # STRATEGY:
39 #     1. Set created time set to $ROOT_TESTFS.
40 #     2. Allow permission create to $STAFF1 on $ROOT_TESTFS.
41 #     3. Create $SUBFS and verify $STAFF1 have created time permissions.
42 #     4. Verify $STAFF1 has created time permission.
43 #     5. Unallow created time permission with option '-c'.
44 #     6. Created $SUBFS and verify $STAFF1 have not created time permissions.
45 #
46 #
47 verify_runnable "both"
48 #
49 log_assert "Verify option '-c' will remove the created permission set."
50 log_onexit restore_root_datasets
51 #
52 log_must $ZFS allow -c $LOCAL_SET $ROOT_TESTFS
53 log_must $ZFS allow -l $STAFF1 create,mount $ROOT_TESTFS
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_005_pos.ksh 2

```
55 # Create $SUBFS and verify $SUBFS has created time permissions.
56 user_run $STAFF1 $ZFS create $SUBFS
57 if ! datasetexists $SUBFS ; then
58     log_fail "ERROR: ($STAFF1): $ZFS create $SUBFS"
59 fi
60 log_must verify_perm $SUBFS $LOCAL_SET $STAFF1
61 #
62 #
63 # After unallow -c, create $SUBFS2 and verify $SUBFS2 has not created time
64 # permissions any more.
65 #
66 log_must $ZFS unallow -c $LOCAL_SET $ROOT_TESTFS
67 user_run $STAFF1 $ZFS create $SUBFS2
68 if ! datasetexists $SUBFS2 ; then
69     log_fail "ERROR: ($STAFF1): $ZFS create $SUBFS2"
70 fi
71 log_must verify_noperm $SUBFS2 $LOCAL_SET $STAFF1
72 #
73 log_pass "Verify option '-c' will remove the created permission set passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_006_pos.ksh 1

```
*****
2262 Fri Nov 22 15:20:08 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify option '-u', '-g' and '-e' only removed the specified type
37 #     permissions set.
38 #
39 # STRATEGY:
40 #     1. Allow '-u' '-g' & '-e' to $STAFF1 on ROOT_TESTFS or $ROOT_TESTVOL.
41 #     2. Unallow '-u' '-g' & '-e' on $ROOT_TESTFS or $ROOT_TESTVOL separately.
42 #     3. Verify permissions on $ROOT_TESTFS or $ROOT_TESTVOL separately.
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "Verify option '-u', '-g' and '-e' only removed the specified type "\
48 "permissions set."
49 log_onexit restore_root_datasets
50 #
51 for dtst in $DATASETS ; do
52     log_must $ZFS allow -u $STAFF1 $LOCAL_DESC_SET $dtst
53     log_must $ZFS allow -g $STAFF_GROUP $LOCAL_DESC_SET $dtst
54     log_must $ZFS allow -e $LOCAL_DESC_SET $dtst
55 end
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_006_pos.ksh 2

```
56     log_must verify_perm $dtst $LOCAL_DESC_SET \
57         $STAFF1 $STAFF2 $OTHER1 $OTHER2
58 #
59     log_must $ZFS unallow -e $dtst
60     log_must verify_perm $dtst $LOCAL_DESC_SET $STAFF1 $STAFF2
61     log_must verify_noperm $dtst $LOCAL_DESC_SET $OTHER1 $OTHER2
62 #
63     log_must $ZFS unallow -g $STAFF_GROUP $dtst
64     log_must verify_perm $dtst $LOCAL_DESC_SET $STAFF1
65     log_must verify_noperm $dtst $LOCAL_DESC_SET $STAFF2
66 #
67     log_must $ZFS unallow -u $STAFF1 $dtst
68     log_must verify_noperm $dtst $LOCAL_DESC_SET $STAFF1
69 done
70 #
71 log_pass "Verify option '-u', '-g' and '-e' passed."
```


new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_007_neg.ksh 1

```
*****
2001 Fri Nov 22 15:20:09 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_007_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs unallow will not remove those permissions which inherited from
37 #     its parent filesystem.
38 #
39 # STRATEGY:
40 #     1. Assign perm1 to $ROOT_TESTFS
41 #     2. Create $SUBFS and assign perm2 to it.
42 #     3. Verify unallow can not affect perm1 on $SUBFS
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "zfs unallow won't remove those permissions which inherited from " \
48     "its parent dataset."
49 log_onexit restore_root_datasets
50 #
51 perm1="atime,devices"; perm2="compression,checksum"
52 log_must $ZFS create $SUBFS
53 log_must $ZFS allow $STAFF1 $perm1 $ROOT_TESTFS
54 log_must $ZFS allow $STAFF1 $perm2 $SUBFS
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_007_neg.ksh 2

```
56 log_must verify_perm $SUBFS ${perm1},${perm2} $STAFF1
57 #
58 # Although unallow the permissions which don't exists on the specific dataset
59 # return 0, the inherited permissions can't be removed in fact.
60 #
61 log_must $ZFS unallow -u $STAFF1 $perm1 $SUBFS
62 log_must verify_perm $SUBFS ${perm1},${perm2} $STAFF1
63 #
64 log_pass "Verify zfs unallow won't remove inherited permissions passed."
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_008_neg.ksh 1

```
*****
2066 Fri Nov 22 15:20:09 2013
new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_008_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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32 . $STF_SUITE/tests/functional/delegate/delegate_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs unallow can handle invalid arguments.
37 #
38 # STRATEGY:
39 #     1. Set up basic test environment.
40 #     2. Verify zfs unallow handle invalid arguments correctly.
41 #
42 #
43 verify_runnable "both"
44 #
45 log_assert "zfs unallow can handle invalid arguments."
46 log_onexit restore_root_datasets
47 #
48 function neg_test
49 {
50     log_mustnot eval "$@ >/dev/null 2>&1"
51 }
52 #
53 # Options that cause this test to fail:
54 # "-r"
```

new/usr/src/test/zfs-tests/tests/functional/delegate/zfs_unallow_008_neg.ksh 2

```
55 set -A badopts "everyone -e" "everyone -u $STAFF1" "everyone everyone" \
56     "-c -l" "-c -d" "-c -e" "-c -s" "-u -e" "-s -e" "-s -l -d" \
57     "-s @non-exist-set -l" "-s @non-existen-set -d" \
58     "-s @non-existen-set -e" "-r -u $STAFF1 $STAFF1" \
59     "-u $STAFF1 -g $STAFF_GROUP" "-u $STAFF1 -e"
60 #
61 log_must setup_unallow_testenv
62 #
63 for dtst in $DATASETS ; do
64     log_must $ZFS allow -c create $dtst
65 #
66     typeset -i i=0
67     while ((i < ${#badopts[@]}); do
68         neg_test $ZFS unallow ${badopts[$i]} $dtst
69         ((i += 1))
70     done
71 #
72     # Causes test failure: neg_test user_run $STAFF1 $ZFS unallow $dtst
73 done
74 #
75 log_pass "zfs unallow can handle invalid arguments passed."
```

new/usr/src/test/zfs-tests/tests/functional/devices/Makefile

1

```
*****
 945 Fri Nov 22 15:20:09 2013
new/usr/src/test/zfs-tests/tests/functional/devices/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/devices
20 #
21 PROGS = cleanup \
22         devices_001_pos \
23         devices_002_neg \
24         devices_003_pos \
25         setup
26 #
27 FILES = devices.cfg \
28         devices_common.kshlib
29 #
30 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
31 $(CMDS) := FILEMODE = 0555
32 #
33 all lint clean clobber:
34 #
35 install: $(CMDS)
36 #
37 $(CMDS): $(TESTDIR)
38 #
39 $(TESTDIR):
40     $(INS.dir)
41 #
42 $(TESTDIR)/%: %.ksh
43     $(INS.rename)
44 #
45 $(TESTDIR)/%: %
46     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/devices/cleanup.ksh

1

1031 Fri Nov 22 15:20:10 2013

new/usr/src/test/zfs-tests/tests/functional/devices/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/devices/devices.cfg

1

1019 Fri Nov 22 15:20:10 2013

new/usr/src/test/zfs-tests/tests/functional/devices/devices.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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29 #
30 #
31 export TESTFILE1=testfile1$$
32 export TESTFILE2=testfile2$$
```

new/usr/src/test/zfs-tests/tests/functional/devices/devices_001_pos.ksh 1

```
*****
2095 Fri Nov 22 15:20:10 2013
new/usr/src/test/zfs-tests/tests/functional/devices/devices_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/devices/devices.cfg
34 . $STF_SUITE/tests/functional/devices/devices_common.kshlib
35 #
36 #
37 # DESCRIPTION:
38 # When set property devices=on on file system, devices files can be used in
39 # this file system.
40 #
41 # STRATEGY:
42 # 1. Create pool and file system.
43 # 2. Set devices=on on this file system.
44 # 3. Separately create block device file and character file.
45 # 4. Separately read from those two device files.
46 # 5. Check the return value, and make sure it succeeds.
47 #
48 #
49 verify_runnable "global"
50 #
51 log_assert "Setting devices=on on file system, the devices files in this file" \
52           "system can be used."
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/devices/devices_001_pos.ksh 2

```
55 log_must $ZFS set devices=on $TESTPOOL/$TESTFS
56 #
57 #
58 # Separately create block device file and character device file, then try to
59 # open them and make sure it succeed.
60 #
61 create_dev_file b $TESTDIR/$TESTFILE1
62 log_must $DD if=$TESTDIR/$TESTFILE1 of=$TESTDIR/$TESTFILE1.out count=1
63 create_dev_file c $TESTDIR/$TESTFILE2
64 log_must $DD if=$TESTDIR/$TESTFILE2 of=$TESTDIR/$TESTFILE2.out count=1
65 #
66 log_pass "Setting devices=on on file system and testing it pass."
```

new/usr/src/test/zfs-tests/tests/functional/devices/devices_002_neg.ksh 1

```
*****
2108 Fri Nov 22 15:20:11 2013
new/usr/src/test/zfs-tests/tests/functional/devices/devices_002_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/devices/devices.cfg
34 . $STF_SUITE/tests/functional/devices/devices_common.kshlib
35 #
36 #
37 # DESCRIPTION:
38 # When set property devices=off on file system, device files cannot be used
39 # in this file system.
40 #
41 # STRATEGY:
42 # 1. Create pool and file system.
43 # 2. Set devices=off on this file system.
44 # 3. Separately create block device file and character file.
45 # 4. Separately read from those two device files.
46 # 5. Check the return value, and make sure it failed.
47 #
48 #
49 verify_runnable "global"
50 #
51 log_assert "Setting devices=off on file system, the devices files in this file\"
52 "system can not be used."
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/devices/devices_002_neg.ksh 2

```
55 log_must $ZFS set devices=off $TESTPOOL/$TESTFS
56 #
57 #
58 # Separately create block device file and character device file, then try to
59 # open them and make sure it failed.
60 #
61 create_dev_file b $TESTDIR/$TESTFILE1
62 log_mustnot $DD if=$TESTDIR/$TESTFILE1 of=$TESTDIR/$TESTFILE1.out count=1
63 create_dev_file c $TESTDIR/$TESTFILE2
64 log_mustnot $DD if=$TESTDIR/$TESTFILE2 of=$TESTDIR/$TESTFILE2.out count=1
65 #
66 log_pass "Setting devices=off on file system and testing it pass."
```

new/usr/src/test/zfs-tests/tests/functional/devices/devices_003_pos.ksh

1

1372 Fri Nov 22 15:20:11 2013

new/usr/src/test/zfs-tests/tests/functional/devices/devices_003_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # Writing random data into /dev/zfs should do no harm.
38 #
39 # STRATEGY:
40 # 1. Write some random data into /dev/zfs
41 # 2. Verify that this should fail.
42 #
43 #
44 #
45 log_assert "Writing random data into /dev/zfs should do no harm."
46 #
47 log_mustnot $DD if=/dev/urandom of=/dev/zfs count=1024
48 #
49 log_pass "Writing random data into /dev/zfs should do no harm."
```



```

*****
2832 Fri Nov 22 15:20:11 2013
new/usr/src/test/zfs-tests/tests/functional/devices/devices_common.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 . $STF_SUITE/tests/functional/devices/devices.cfg
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # Create block file or charactor file according to parameter.
36 #
37 # $1 device file type
38 # $2 file name
39 #
40 function create_dev_file
41 {
42     typeset filetype=$1
43     typeset filename=$2
44 #
45     case $filetype in
46         b)
47             devtype=$(SDF -n / | $AWK '{print $3}')
48             case $devtype in
49                 zfs)
50                     rootpool=$(SDF / | \
51                         $AWK '{print $2}')
52                     rootpool=${rootpool#\{ } }
53                     rootpool=${rootpool%/* }

```

```

55     devstr=$(get_disklist $rootpool)
56     devstr=$(ECHO "$devstr" | \
57         $AWK '{print $1}')
58     [[ -z $devstr ]] && \
59         log_fail "Can not get block devi
60     devstr=/dev/dsk/${devstr}
61     ;;
62     ufs)
63 #
64 # Get the existing block device file in current system.
65 # And bring out the first one.
66 #
67     devstr=$(SDF -lhF ufs | \
68         $GREP "^/dev/dsk" | \
69         $AWK '{print $1}')
70     devstr=$(ECHO "$devstr" | \
71         $AWK '{print $1}')
72     [[ -z $devstr ]] && \
73         log_fail "Can not get block devi
74     ;;
75     *)
76     log_unsupported "Unsupported fstype " \
77         "for / ($devtype)," \
78         "only ufs|zfs is supported."
79     ;;
80 esac
81 #
82 # Get the device file information. i.e:
83 # /dev/dsk/c0t0d0s0:      block special (28/768)
84 #
85 devstr=$(FILE $devstr)
86 #
87 #
88 # Bring out major and minor number.
89 #
90 #
91 major=${devstr##*\{ } }
92 major=${major%/* }
93 minor=${devstr##*/ }
94 minor=${minor%\} }
95 #
96 log_must $MKNOD $filename b $major $minor
97 ;;
98 c)
99 #
100 # Create device file '/dev/null'
101 #
102 log_must $MKNOD $filename c $($GETMAJOR mm) 2
103 ;;
104 *)
105     log_fail "'$filetype' is wrong."
106 ;;
107 esac
108 #
109 return 0
110 }
111 #
112 function cleanup
113 {
114     log_must $ZFS set devices=on $TESTPOOL/$TESTFS
115     log_must $RM -f $TESTDIR/$TESTFILE1
116     log_must $RM -f $TESTDIR/$TESTFILE2
117     log_must $RM -f $TESTDIR/$TESTFILE1.out
118     log_must $RM -f $TESTDIR/$TESTFILE2.out
119 }

```

new/usr/src/test/zfs-tests/tests/functional/devices/setup.ksh

1

1053 Fri Nov 22 15:20:12 2013

new/usr/src/test/zfs-tests/tests/functional/devices/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/exec/Makefile

1

1269 Fri Nov 22 15:20:12 2013

new/usr/src/test/zfs-tests/tests/functional/exec/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/exec
```

```
21 PROG = mmap_exec
```

```
23 SCRIPTS = cleanup \
24     exec_001_pos \
25     exec_002_neg \
26     setup
```

```
28 include $(SRC)/cmd/Makefile.cmd
```

```
29 include $(SRC)/test/Makefile.com
```

```
31 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
33 OBJS = $(PROG:%=%.o)
34 SRCS = $(OBJS:%.o=%.c)
```

```
36 CMDS = $(PROG:%=$(TESTDIR)/%) $(SCRIPTS:%=$(TESTDIR)/%)
37 $(CMDS) := FILEMODE = 0555
```

```
39 CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64
```

```
41 all: $(PROG)
```

```
43 $(PROG): $(OBJS)
44     $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
45     $(POST_PROCESS)
```

```
47 %.o: ../%.c
48     $(COMPILE.c) $<
```

```
50 install: all $(CMDS)
```

```
52 lint: lint_SRCS
```

```
54 clobber: clean
```

new/usr/src/test/zfs-tests/tests/functional/exec/Makefile

2

```
55     -$(RM) $(PROG)
```

```
57 clean:
```

```
58     -$(RM) $(OBJS)
```

```
60 $(CMDS): $(TESTDIR) $(PROG)
```

```
62 $(TESTDIR):
```

```
63     $(INS.dir)
```

```
65 $(TESTDIR)/%: %
```

```
66     $(INS.file)
```

```
68 $(TESTDIR)/%: %.ksh
```

```
69     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/exec/cleanup.ksh

1

1031 Fri Nov 22 15:20:13 2013

new/usr/src/test/zfs-tests/tests/functional/exec/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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27 #
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/exec/exec_001_pos.ksh 1

```
*****
1829 Fri Nov 22 15:20:13 2013
new/usr/src/test/zfs-tests/tests/functional/exec/exec_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # When set property exec=on on a filesystem, processes can be executed from
37 # this filesystem.
38 #
39 # STRATEGY:
40 # 1. Create pool and file system.
41 # 2. Copy '/usr/bin/ls' to the ZFS file system.
42 # 3. Setting exec=on on this file system.
43 # 4. Make sure '/usr/bin/ls' can work in this ZFS file system.
44 # 5. Make sure mmap which is using the PROT_EXEC calls succeed.
45 #
46 #
47 verify_runnable "both"
48 MMAP_EXEC=$STF_SUITE/tests/functional/exec/mmap_exec
49 #
50 function cleanup
51 {
52     log_must $RM $TESTDIR/myls
53 }
```

new/usr/src/test/zfs-tests/tests/functional/exec/exec_001_pos.ksh 2

```
55 log_assert "Setting exec=on on a filesystem, processes can be executed from " \
56     "this file system."
57 log_onexit cleanup
58 #
59 log_must $CP $LS $TESTDIR/myls
60 log_must $ZFS set exec=on $TESTPOOL/$TESTFS
61 log_must $TESTDIR/myls
62 log_must $MMAP_EXEC $TESTDIR/myls
63 #
64 log_pass "Setting exec=on on filesystem testing passed."
```

new/usr/src/test/zfs-tests/tests/functional/exec/exec_002_neg.ksh 1

```
*****
2159 Fri Nov 22 15:20:13 2013
new/usr/src/test/zfs-tests/tests/functional/exec/exec_002_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # When set property exec=off on a filesystem, processes can not be executed from
37 # this filesystem.
38 #
39 # STRATEGY:
40 # 1. Create pool and file system.
41 # 2. Copy '/usr/bin/ls' to the ZFS file system.
42 # 3. Setting exec=off on this file system.
43 # 4. Make sure '/usr/bin/ls' can not work in this ZFS file system.
44 # 5. Make sure mmap which is using the PROT_EXEC calls failed.
45 #
46 #
47 verify_runnable "both"
48 MMAP_EXEC=$STF_SUITE/tests/functional/exec/mmap_exec
49 #
50 function cleanup
51 {
52     log_must $RM $TESTDIR/myls
53 }
```

new/usr/src/test/zfs-tests/tests/functional/exec/exec_002_neg.ksh 2

```
55 #
56 # Execute and check if the return value is equal to expected.
57 #
58 # $1 expected value
59 # $2..$n executed item
60 #
61 function exec_n_check
62 {
63     typeset expect_value=$1
64
65     shift
66     @$?
67     ret=$?
68     if [[ $ret != $expect_value ]]; then
69         log_fail "Unexpected return code: '$ret'"
70     fi
71
72     return 0
73 }
74 #
75 log_assert "Setting exec=off on a filesystem, processes can not be executed " \
76     "from this file system."
77 log_onexit cleanup
78 #
79 log_must $CP $LS $TESTDIR/myls
80 log_must $ZFS set exec=off $TESTPOOL/$TESTFS
81 #
82 log_must exec_n_check 126 $TESTDIR/myls
83 log_must exec_n_check 13 $MMAP_EXEC $TESTDIR/myls
84 #
85 log_pass "Setting exec=off on filesystem testing passed."
```

new/usr/src/test/zfs-tests/tests/functional/exec/mmap_exec.c

1

```
*****
1657 Fri Nov 22 15:20:14 2013
new/usr/src/test/zfs-tests/tests/functional/exec/mmap_exec.c
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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26
27 /*
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29  */
30
31 #include <stdio.h>
32 #include <sys/stat.h>
33 #include <fcntl.h>
34 #include <sys/types.h>
35 #include <sys/mman.h>
36 #include <errno.h>
37
38 extern int errno;
39
40 int
41 main(int argc, char *argv[])
42 {
43     int fd;
44     struct stat statbuf;
45
46     if (argc != 2) {
47         (void) printf("Error: missing binary name.\n");
48         (void) printf("Usage: \n\t%s <binary name>\n",
49             argv[0]);
50         return (1);
51     }
52
53     errno = 0;
```

new/usr/src/test/zfs-tests/tests/functional/exec/mmap_exec.c

2

```
55     if ((fd = open(argv[1], O_RDONLY)) < 0) {
56         perror("open");
57         return (errno);
58     }
59     if (fstat(fd, &statbuf) < 0) {
60         perror("fstat");
61         return (errno);
62     }
63
64     if (mmap(0, statbuf.st_size,
65         PROT_EXEC, MAP_SHARED, fd, 0) == MAP_FAILED) {
66         perror("mmap");
67         return (errno);
68     }
69
70     return (0);
71 }
```

new/usr/src/test/zfs-tests/tests/functional/exec/setup.ksh

1

1053 Fri Nov 22 15:20:14 2013

new/usr/src/test/zfs-tests/tests/functional/exec/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 default_setup $DISK
```


new/usr/src/test/zfs-tests/tests/functional/features/Makefile

1

708 Fri Nov 22 15:20:14 2013

new/usr/src/test/zfs-tests/tests/functional/features/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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```

```
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```

```
16 .PARALLEL: $(SUBDIRS)
```

```
18 include $(SRC)/Makefile.master
```

```
20 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
21 TESTDIR = $(ROOTOPTPKG)/tests/functional/features/async_destroy
```

```
23 all install lint clean clobber:
```

```
25 SUBDIRS = async_destroy
```

```
27 include $(SRC)/test/Makefile.com
```

new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/Makefile 1

```
*****  
      828 Fri Nov 22 15:20:15 2013  
new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/Makefile  
4206 history_003_pos relies on exact size of history log and entries  
4207 history_008_pos depends on obsolete internal history log message  
4208 Typo in zfs_main.c: "posxiuser"  
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```

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12 #  
13 # Copyright (c) 2013 by Delphix. All rights reserved.  
14 #  
  
16 include $(SRC)/Makefile.master  
  
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests  
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/features/async_destroy  
  
21 PROGS = async_destroy_001_pos \  
22         cleanup \  
23         setup  
  
25 CMDS = $(PROGS:%=$(TESTDIR)/%)  
26 $(CMDS) := FILEMODE = 0555  
  
28 all lint clean clobber:  
  
30 install: $(CMDS)  
  
32 $(CMDS): $(TESTDIR)  
  
34 $(TESTDIR):  
35     $(INS.dir)  
  
37 $(TESTDIR)/%: %.ksh  
38     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/async_destroy 1

```
*****
2291 Fri Nov 22 15:20:15 2013
new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/async_destroy
_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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20 # CDDL HEADER END
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24 # Copyright (c) 2013 by Delphix. All rights reserved.
25 #
26 #
27 . $STF_SUITE/include/libtest.shlib
28 #
29 #
30 # DESCRIPTION:
31 # Exercise the traversal suspend/resume code in async_destroy by
32 # destroying a file system that has more blocks than we can free
33 # in a single txg.
34 #
35 # STRATEGY:
36 # 1. Create a file system
37 # 2. Set recordsize to 512 to create the maximum number of blocks
38 # 3. Set compression to off to force zero-ed blocks to be written
39 # 4. dd a lot of data from /dev/zero to the file system
40 # 5. Destroy the file system
41 # 6. Wait for the freeing property to go to 0
42 # 7. Use zdb to check for leaked blocks
43 #
44 #
45 TEST_FS=$TESTPOOL/async_destroy
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     datasetexists $TEST_FS && log_must $ZFS destroy $TEST_FS
52 }
```

new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/async_destroy 2

```
54 log_onexit cleanup
55 log_assert "async_destroy can suspend and resume traversal"
56 #
57 log_must $ZFS create -o recordsize=512 -o compression=off $TEST_FS
58 #
59 #
60 # Fill with 2G
61 #
62 log_must $DD bs=1024k count=2048 if=/dev/zero of=$TEST_FS/file
63 #
64 log_must $ZFS destroy $TEST_FS
65 #
66 count=0
67 while [[ "0" != "$($ZPOOL list -Ho freeing $TESTPOOL)" ]]; do
68     count=$((count + 1))
69     sleep 1
70 done
71 #
72 #
73 # We assert that the data took a few seconds to free to make sure that
74 # we actually exercised the suspend/resume code. The destroy should
75 # actually take much longer than this, so false positives are not likely.
76 #
77 log_must test $count -gt 5
78 #
79 #
80 # Check for leaked blocks.
81 #
82 log_must $ZDB -b $TESTPOOL
83 #
84 log_pass "async_destroy can suspend and resume traversal"
```

new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/cleanup.ksh 1

1031 Fri Nov 22 15:20:15 2013

new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/cleanup.ksh

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/setup.ksh 1

1054 Fri Nov 22 15:20:16 2013

new/usr/src/test/zfs-tests/tests/functional/features/async_destroy/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/grow_pool/Makefile

1

890 Fri Nov 22 15:20:16 2013

new/usr/src/test/zfs-tests/tests/functional/grow_pool/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/grow_pool
20 #
21 PROGS = cleanup \
22         grow_pool_001_pos \
23         setup
24 #
25 FILES = grow_pool.cfg \
26 #
27 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
28 $(CMDS) := FILEMODE = 0555
29 #
30 all lint clean clobber:
31 #
32 install: $(CMDS)
33 #
34 $(CMDS): $(TESTDIR)
35 #
36 $(TESTDIR):
37     $(INS.dir)
38 #
39 $(TESTDIR)/%: %.ksh
40     $(INS.rename)
41 #
42 $(TESTDIR)/%: %
43     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/grow_pool/cleanup.ksh

1

1444 Fri Nov 22 15:20:17 2013

new/usr/src/test/zfs-tests/tests/functional/grow_pool/cleanup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/grow_pool/grow_pool.cfg
34 #
35 verify_runnable "global"
36 #
37 ismounted $TESTFS && \
38     log_must $ZFS umount $TESTDIR
39 destroy_pool "$TESTPOOL"
40 #
41 #
42 # Here we create & destroy a zpool using the disks
43 # because this resets the partitions to normal
44 #
45 if [[ -z $DISK ]]; then
46     create_pool ZZZ "$DISK0 $DISK1"
47     destroy_pool ZZZ
48 else
49     create_pool ZZZ "$DISK"
50     destroy_pool ZZZ
51 fi
52 #
53 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/grow_pool/grow_pool.cfg

1

1627 Fri Nov 22 15:20:17 2013
new/usr/src/test/zfs-tests/tests/functional/grow_pool/grow_pool.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 function set_disks
34 {
35     set -A disk_array $(find_disks $DISKS)
36     typeset -i i=0
37     typeset -i limit=2
38     while (( i < limit )); do
39         if [[ -n ${disk_array[$i]} ]]; then
40             export DISK${i}=${disk_array[$i]}
41         else
42             export DISK=${DISKS%% *}
43             return
44         fi
45         ((i = i + 1))
46     done
47     export DISK=""
48 }
49 #
50 export BLOCK_SIZE=8192
51 set_disks
52 #
53 # Do not make SIZE too large as the three slices may exceed
54 # the size of the disk, and also slow down the test
```

new/usr/src/test/zfs-tests/tests/functional/grow_pool/grow_pool.cfg

2

```
55 # which involves filling until ENOSPC
56 #
57 export SIZE="100mb"
58 export SLICE=0
59 export SLICE0=0
60 export SLICE1=1
61 export SMALL_WRITE_COUNT=100
62 export TESTFILE1=file$$1
63 export WRITE_COUNT=65536000
```


new/usr/src/test/zfs-tests/tests/functional/grow_pool/grow_pool_001_pos.ksh 1

```
*****
2180 Fri Nov 22 15:20:17 2013
new/usr/src/test/zfs-tests/tests/functional/grow_pool/grow_pool_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/grow_pool/grow_pool.cfg
34 #
35 #
36 # DESCRIPTION:
37 # A ZFS file system is limited by the amount of disk space
38 # available to the pool. Growing the pool by adding a disk
39 # increases the amount of space.
40 #
41 # STRATEGY:
42 # 1) Fill a ZFS filesystem until ENOSPC by creating a large file
43 # 2) Grow the pool by adding a disk
44 # 3) Verify that more data can now be written to the file system
45 #
46 #
47 verify_runnable "global"
48 #
49 log_assert "A zpool may be increased in capacity by adding a disk"
50 #
51 log_must $ZFS set compression=off $TESTPOOL/$TESTFS
52 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 \
53 -b $BLOCK_SIZE -c $WRITE_COUNT -d 0
54 typeset -i zret=$?
```

new/usr/src/test/zfs-tests/tests/functional/grow_pool/grow_pool_001_pos.ksh 2

```
55 readonly ENOSPC=28
56 if [[ $zret -ne $ENOSPC ]]; then
57     log_fail "file_write completed w/o ENOSPC, aborting!!!"
58 fi
59 #
60 if [[ ! -s $TESTDIR/$TESTFILE1 ]]; then
61     log_fail "$TESTDIR/$TESTFILE1 was not created"
62 fi
63 #
64 if [[ -n $DISK ]]; then
65     log_must $ZPOOL add $TESTPOOL $DISK"s"$$SLICE1
66 else
67     log_must $ZPOOL add $TESTPOOL $DISK1
68 fi
69 #
70 log_must $FILE_WRITE -o append -f $TESTDIR/$TESTFILE1 \
71 -b $BLOCK_SIZE -c $SMALL_WRITE_COUNT -d 0
72 #
73 log_must $ZFS inherit compression $TESTPOOL/$TESTFS
74 log_pass "TESTPOOL successfully grown"
```

new/usr/src/test/zfs-tests/tests/functional/grow_pool/setup.ksh

1

1589 Fri Nov 22 15:20:18 2013

new/usr/src/test/zfs-tests/tests/functional/grow_pool/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/grow_pool/grow_pool.cfg
34 #
35 verify_runnable "global"
36 #
37 if ! $(is_physical_device $DISKS) ; then
38     log_unsupported "This directory cannot be run on raw files."
39 fi
40 #
41 if [[ -n $DISK ]]; then
42     log_note "No spare disks available. Using slices on $DISK"
43     for i in $SLICE0 $SLICE1 ; do
44         log_must set_partition $i "$cyl" $SIZE $DISK
45         cyl=$(get_endslice $DISK $i)
46     done
47     tmp=$DISK"s"$SLICE0
48 else
49     log_must set_partition $SLICE "" $SIZE $DISK0
50     log_must set_partition $SLICE "" $SIZE $DISK1
51     tmp=$DISK0"s"$SLICE
52 fi
53 #
54 default_setup $tmp
```

new/usr/src/test/zfs-tests/tests/functional/grow_pool/setup.ksh

2

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/Makefile

1

902 Fri Nov 22 15:20:18 2013

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/Makefile

4206 history_003_pos relies on exact size of history log and entries

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10 #
```

```
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/grow_replicas
```

```
21 PROGS = cleanup \
22         grow_replicas_001_pos \
23         setup
```

```
25 FILES = grow_replicas.cfg \
```

```
27 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
28 $(CMDS) := FILEMODE = 0555
```

```
30 all lint clean clobber:
```

```
32 install: $(CMDS)
```

```
34 $(CMDS): $(TESTDIR)
```

```
36 $(TESTDIR):
37     $(INS.dir)
```

```
39 $(TESTDIR)/%: %.ksh
40     $(INS.rename)
```

```
42 $(TESTDIR)/%: %
43     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/cleanup.ksh

1

1460 Fri Nov 22 15:20:18 2013

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/tests/functional/grow_replicas/grow_replicas.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 verify_runnable "global"
36 #
37 ismounted $TESTFS && \
38     log_must $ZFS umount $TESTDIR
39 destroy_pool "$TESTPOOL"
40 #
41 #
42 # Here we create & destroy a zpool using the disks
43 # because this resets the partitions to normal
44 #
45 if [[ -z $DISK ]]; then
46     create_pool "ZZZ" "$DISK0 $DISK1"
47     destroy_pool "ZZZ"
48 else
49     create_pool "ZZZ" "$DISK"
50     destroy_pool "ZZZ"
51 fi
52 #
53 log_pass
```

```

*****
1874 Fri Nov 22 15:20:19 2013
new/usr/src/test/zfs-tests/tests/functional/grow_replicas/grow_replicas.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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*****

```

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30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 function set_disks
34 {
35     set -A disk_array $(find_disks $DISKS)
36     typeset -i i=0
37     typeset -i limit=4
38     while (( i < limit )); do
39         if [[ -n ${disk_array[$i]} ]]; then
40             export DISK${i}=${disk_array[$i]}
41         else
42             export DISK=${DISKS%% *}
43             return
44         fi
45         ((i = i + 1))
46     done
47     export DISK=""
48 }
49 #
50 typeset -i index=`expr $RANDOM % 2`
51 if (( $index == 0 )); then
52     POOLTYPE="mirror"
53 else
54     POOLTYPE="raidz"

```

```

55 fi
56 export POOLTYPE
57 #
58 export BLOCK_SIZE=8192
59 set_disks
60 #
61 # Do not make SIZE too large as the three slices may exceed
62 # the size of the disk, and also slow down the test
63 # which involves filling until ENOSPC
64 #
65 export SIZE="100mb"
66 if [[ $WRAPPER != *"smi"* ]]; then
67     export SLICE=0
68 else
69     export SLICE=2
70 fi
71 export SLICE0=0
72 export SLICE1=1
73 export SLICE2=2
74 export SLICE3=3
75 export SLICE4=4
76 export SMALL_WRITE_COUNT=100
77 export TESTFILE1=file$$1
78 export WRITE_COUNT=65536000

```

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/grow_replicas_001_pos. 1

2523 Fri Nov 22 15:20:19 2013

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/grow_replicas_001_pos.

ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/tests/functional/grow_replicas/grow_replicas.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 # A ZFS file system is limited by the amount of disk space
38 # available to the pool. Growing the pool by adding a disk
39 # increases the amount of space.
40 #
41 # STRATEGY:
42 # 1) Fill a ZFS filesystem mirror/raidz until ENOSPC by creating lots
43 # of files
44 # 2) Grow the mirror/raidz by adding a disk
45 # 3) Verify that more data can now be written to the file system
46 #
47 #
48 verify_runnable "global"
49 #
50 log_assert "A zpool mirror/raidz may be increased in capacity by adding a disk."
51 #
52 log_must $ZFS set compression=off $TESTPOOL/$TESTFS
53 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 \
```

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/grow_replicas_001_pos. 2

```
54 -b $BLOCK_SIZE -c $WRITE_COUNT -d 0
55 #
56 typeset -i zret=?
57 readonly ENOSPC=28
58 if [[ $zret -ne $ENOSPC ]]; then
59     log_fail "file_write completed w/o ENOSPC, aborting!!!"
60 fi
61 #
62 if [[ ! -s $TESTDIR/$TESTFILE1 ]]; then
63     log_fail "$TESTDIR/$TESTFILE1 was not created"
64 fi
65 #
66 #
67 # $DISK will be set if we're using slices on one disk
68 #
69 if [[ -n $DISK ]]; then
70     log_must $ZPOOL add $TESTPOOL $POOLTYPE $DISK"s"$$SLICE3 \
71         $DISK"s"$$SLICE4
72 else
73     [[ -z $DISK2 || -z $DISK3 ]] && \
74         log_unsupported "No spare disks available."
75     log_must $ZPOOL add -f $TESTPOOL $POOLTYPE $DISK2"s"$$SLICE \
76         $DISK3"s"$$SLICE
77 fi
78 #
79 log_must $FILE_WRITE -o append -f $TESTDIR/$TESTFILE1 \
80     -b $BLOCK_SIZE -c $SMALL_WRITE_COUNT -d 0
81 #
82 log_must $ZFS inherit compression $TESTPOOL/$TESTFS
83 log_pass "TESTPOOL mirror/raidz successfully grown"
```

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/setup.ksh 1

1978 Fri Nov 22 15:20:19 2013
new/usr/src/test/zfs-tests/tests/functional/grow_replicas/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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32 . $STF_SUITE/tests/functional/grow_replicas/grow_replicas.cfg
33 . $STF_SUITE/include/libtest.shlib
34 #
35 verify_runnable "global"
36 #
37 if ! $(is_physical_device $DISKS) ; then
38     log_unsupported "This directory cannot be run on raw files."
39 fi
40 #
41 log_note "Creating pool type: $POOLTYPE"
42 #
43 if [[ -n $DISK ]]; then
44     log_note "No spare disks available. Using slices on $DISK"
45     for i in $SLICE0 $SLICE1 $SLICE3 $SLICE4 ; do
46         log_must set_partition $i "$cyl" $SIZE $DISK
47         cyl=$(get_endslice $DISK $i)
48     done
49     create_pool $TESTPOOL $POOLTYPE ${DISK}s$SLICE0 \
50         ${DISK}s$SLICE1
51 else
52     log_must set_partition $SLICE "" $SIZE $DISK0
53     log_must set_partition $SLICE "" $SIZE $DISK1
54     create_pool $TESTPOOL $POOLTYPE ${DISK0}s${SLICE} \
```

new/usr/src/test/zfs-tests/tests/functional/grow_replicas/setup.ksh 2

```
55     ${DISK1}s$SLICE
56 fi
57 #
58 $RM -rf $TESTDIR || log_unresolved Could not remove $TESTDIR
59 $MKDIR -p $TESTDIR || log_unresolved Could not create $TESTDIR
60 #
61 log_must $ZFS create $TESTPOOL/$TESTFS
62 log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
63 #
64 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/history/Makefile

1

1307 Fri Nov 22 15:20:20 2013
new/usr/src/test/zfs-tests/tests/functional/history/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/history
20 #
21 PROGS = cleanup \
22     history_001_pos \
23     history_002_pos \
24     history_003_pos \
25     history_004_pos \
26     history_005_neg \
27     history_006_neg \
28     history_007_pos \
29     history_008_pos \
30     history_009_pos \
31     history_010_pos \
32     setup
33 #
34 FILES = history.cfg \
35     history_common.kshlib
36 #
37 DATAFILES = i386.migratedpool.DAT.Z \
38     i386.orig_history.txt \
39     sparc.migratedpool.DAT.Z \
40     sparc.orig_history.txt \
41     zfs-pool-v4.dat.Z
42 #
43 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
44 $(CMDS) := FILEMODE = 0555
45 #
46 DATA = $(DATAFILES:%=$(TESTDIR)/%)
47 $(DATA) := FILEMODE = 0444
48 #
49 all lint clean clobber:
50 #
51 install: $(CMDS) $(DATA)
52 #
53 $(CMDS): $(TESTDIR)
```

new/usr/src/test/zfs-tests/tests/functional/history/Makefile

2

```
55 $(DATA): $(TESTDIR)
56 #
57 $(TESTDIR):
58     $(INS.dir)
59 #
60 $(TESTDIR)/%: %.ksh
61     $(INS.rename)
62 #
63 $(TESTDIR)/%: %
64     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/history/cleanup.ksh

1

1167 Fri Nov 22 15:20:20 2013

new/usr/src/test/zfs-tests/tests/functional/history/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 [[ -f $OLD_HISTORY ]] && $RM -f $OLD_HISTORY
35 [[ -f $TMP_HISTORY ]] && $RM -f $TMP_HISTORY
36 [[ -f $NEW_HISTORY ]] && $RM -f $NEW_HISTORY
37 #
38 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/history/history.cfg

1

1298 Fri Nov 22 15:20:21 2013

new/usr/src/test/zfs-tests/tests/functional/history/history.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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29 #
30 #
31 export ZFSROOT=
32 #
33 export MPOOL=mpool.$$
34 #
35 export OLD_HISTORY=/tmp/old_history.$$
36 export TMP_HISTORY=/tmp/tmp_history.$$
37 export NEW_HISTORY=/tmp/new_history.$$
38 #
39 export MIGRATEDPOOLNAME=${MIGRATEDPOOLNAME:-history_pool}
40 export TIMEZONE=${TIMEZONE:-US/Mountain}
41 #
42 export HIST_USER="huser"
43 export HIST_GROUP="hgroup"
44 #
45 export TESTVOL=testvol.$$
```

```

*****
4026 Fri Nov 22 15:20:21 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 . $STF_SUITE/tests/functional/history/history_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # Create a scenario to verify the following zpool subcommands are logged.
36 # create, destroy, add, remove, offline, online, attach, detach, replace,
37 # scrub, export, import, clear, upgrade.
38 #
39 # STRATEGY:
40 # 1. Create three virtual disk files and create a mirror.
41 # 2. Run and verify pool commands, with special casing for destroy/export.
42 # 3. Import a pool and upgrade it, verifying 'upgrade' was logged.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     destroy_pool $MPOOL
50     destroy_pool $upgrade_pool
51 #
52 [[ -d $import_dir ]] && $RM -rf $import_dir
53 for file in $VDEV1 $VDEV2 $VDEV3 $VDEV4; do
54     [[ -f $file ]] && $RM -f $file

```

```

55     done
56 }
57 #
58 log_assert "Verify zpool sub-commands which modify state are logged."
59 log_onexit cleanup
60 #
61 mntpnt=$(get_prop mountpoint $TESTPOOL)
62 (( $? != 0 )) && log_fail "get_prop($TESTPOOL mountpoint)"
63 VDEV1=$mntpnt/vdev1; VDEV2=$mntpnt/vdev2;
64 VDEV3=$mntpnt/vdev3; VDEV4=$mntpnt/vdev4;
65 #
66 log_must $MKFILE 64m $VDEV1 $VDEV2 $VDEV3
67 log_must $MKFILE 100m $VDEV4
68 #
69 run_and_verify -p "$MPOOL" "$ZPOOL create $MPOOL mirror $VDEV1 $VDEV2"
70 run_and_verify -p "$MPOOL" "$ZPOOL add -f $MPOOL spare $VDEV3"
71 run_and_verify -p "$MPOOL" "$ZPOOL remove $MPOOL $VDEV3"
72 run_and_verify -p "$MPOOL" "$ZPOOL offline $MPOOL $VDEV1"
73 run_and_verify -p "$MPOOL" "$ZPOOL online $MPOOL $VDEV1"
74 run_and_verify -p "$MPOOL" "$ZPOOL attach $MPOOL $VDEV1 $VDEV4"
75 run_and_verify -p "$MPOOL" "$ZPOOL detach $MPOOL $VDEV4"
76 run_and_verify -p "$MPOOL" "$ZPOOL replace -f $MPOOL $VDEV1 $VDEV4"
77 run_and_verify -p "$MPOOL" "$ZPOOL scrub $MPOOL"
78 run_and_verify -p "$MPOOL" "$ZPOOL clear $MPOOL"
79 #
80 # For export and destroy, mimic the behavior of run_and_verify using two
81 # commands since the history will be unavailable until the pool is imported
82 # again.
83 commands=("$ZPOOL export $MPOOL" "$ZPOOL import -d $mntpnt $MPOOL"
84 "$ZPOOL destroy $MPOOL" "$ZPOOL import -D -f -d $mntpnt $MPOOL")
85 for i in 0 2; do
86     cmd1="{commands[$i]}"
87     cmd2="{commands[((i + 1))]}"
88 #
89 $ZPOOL history $MPOOL > $OLD_HISTORY 2>/dev/null
90 log_must $cmd1
91 log_must $cmd2
92 $ZPOOL history $MPOOL > $TMP_HISTORY 2>/dev/null
93 $DIFF $OLD_HISTORY $TMP_HISTORY | $GREP "^> " | $SED 's/^> //g' > \
94     $NEW_HISTORY
95 $GREP "${ECHO "$cmd1" | $SED 's/\usr/sbin/\\/g'}" $NEW_HISTORY \
96     >/dev/null 2>&1 || log_fail "Didn't find \"$cmd1\" in pool history"
97 $GREP "${ECHO "$cmd2" | $SED 's/\usr/sbin/\\/g'}" $NEW_HISTORY \
98     >/dev/null 2>&1 || log_fail "Didn't find \"$cmd2\" in pool history"
99 done
100 #
101 run_and_verify -p "$MPOOL" "$ZPOOL split $MPOOL ${MPOOL}_split"
102 #
103 import_dir=/var/tmp/import_dir.$$
104 log_must $MKDIR $import_dir
105 log_must $CP $STF_SUITE/tests/functional/history/zfs-pool-v4.dat.Z $import_dir
106 log_must $UNCOMPRESS $import_dir/zfs-pool-v4.dat.Z
107 upgrade_pool=$(($ZPOOL import -d $import_dir | $GREP "pool:" | $AWK '{print $2}')
108 log_must $ZPOOL import -d $import_dir $upgrade_pool
109 run_and_verify -p "$upgrade_pool" "$ZPOOL upgrade $upgrade_pool"
110 #
111 log_pass "zpool sub-commands which modify state are logged passed. "

```

```

*****
4452 Fri Nov 22 15:20:21 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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29 #
30 #
31 . $STF_SUITE/tests/functional/history/history_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # Create a scenario to verify the following zfs subcommands are logged.
36 # create, destroy, clone, rename, snapshot, rollback, set, inherit,
37 # receive, promote, hold and release.
38 #
39 # STRATEGY:
40 # 1. Verify that all the zfs commands listed (barring send) produce an
41 # entry in the pool history.
42 #
43 #
44 verify_runnable "global"
45 #
46 function cleanup
47 {
48 #
49 [[ -f $tmpfile ]] && $RM -f $tmpfile
50 [[ -f $tmpfile2 ]] && $RM -f $tmpfile2
51 for dataset in $fs $newfs $fsclone $vol $newvol $volclone; do
52     datasetexists $dataset && $ZFS destroy -Rf $dataset
53 done
54 $RM -rf /history.$$

```

```

55 }
56 #
57 log_assert "Verify zfs sub-commands which modify state are logged."
58 log_onexit cleanup
59 #
60 fs=$TESTPOOL/$TESTFS1; newfs=$TESTPOOL/newfs; fsclone=$TESTPOOL/clone
61 vol=$TESTPOOL/$TESTVOL; newvol=$TESTPOOL/newvol; volclone=$TESTPOOL/volclone
62 fssnap=$fs@fssnap; fssnap2=$fs@fssnap2
63 volsnap=$vol@volsnap; volsnap2=$vol@volsnap2
64 tmpfile=/tmp/tmpfile.$$; tmpfile2=/tmp/tmpfile2.$$
65 #
66 # property value property value
67 #
68 props=(
69     quota 64M recordsize 512
70     reservation 32M reservation none
71     mountpoint /history.$$ mountpoint legacy
72     mountpoint none sharenf on
73     sharenf off
74     compression on compression off
75     aclmode lzjb aclmode discard
76     groupmask groupmask aclmode passthrough
77     atime on atime off
78     devices on devices off
79     exec on exec off
80     setuid on setuid off
81     readonly on readonly off
82     zoned on zoned off
83     snapdir hidden snapdir visible
84     aclinherit discard aclinherit noallow
85     aclinherit secure aclinherit passthrough
86     canmount off canmount on
87     xattr on xattr off
88     compression gzip compression gzip-$(RANDOM%9 + 1)
89     copies $((RANDOM%3 + 1))
90 )
91 #
92 run_and_verify "$ZFS create $fs"
93 # Set all the property for filesystem
94 typeset -i i=0
95 while ((i < ${#props[@]}); do
96     run_and_verify "$ZFS set ${props[$i]}=${props[((i+1)]]} $fs"
97 #
98 # quota, reservation, canmount can not be inherited.
99 #
100 if [[ ${props[$i]} != "quota" && ${props[$i]} != "reservation" && \
101     ${props[$i]} != "canmount" ]];
102 then
103     run_and_verify "$ZFS inherit ${props[$i]} $fs"
104 fi
105 #
106 ((i += 2))
107 done
108 #
109 run_and_verify "$ZFS create -V 64M $vol"
110 run_and_verify "$ZFS set volsize=32M $vol"
111 run_and_verify "$ZFS snapshot $fssnap"
112 run_and_verify "$ZFS hold tag $fssnap"
113 run_and_verify "$ZFS release tag $fssnap"
114 run_and_verify "$ZFS snapshot $volsnap"
115 run_and_verify "$ZFS snapshot $fssnap2"
116 run_and_verify "$ZFS snapshot $volsnap2"
117 #
118 # Send isn't logged...
119 log_must $ZFS send -i $fssnap $fssnap2 > $tmpfile
120 log_must $ZFS send -i $volsnap $volsnap2 > $tmpfile2

```

```
121 # Verify that's true
122 $ZPOOL history $TESTPOOL | $GREP 'zfs send' >/dev/null 2>&1 && \
123     log_fail "'zfs send' found in history of \"$TESTPOOL\""

125 run_and_verify "$ZFS destroy $fssnap2"
126 run_and_verify "$ZFS destroy $volsnap2"
127 run_and_verify "$ZFS receive $fs < $tmpfile"
128 run_and_verify "$ZFS receive $vol < $tmpfile2"
129 run_and_verify "$ZFS rollback -r $fssnap"
130 run_and_verify "$ZFS rollback -r $volsnap"
131 run_and_verify "$ZFS clone $fssnap $fscclone"
132 run_and_verify "$ZFS clone $volsnap $volclone"
133 run_and_verify "$ZFS rename $fs $newfs"
134 run_and_verify "$ZFS rename $vol $newvol"
135 run_and_verify "$ZFS promote $fscclone"
136 run_and_verify "$ZFS promote $volclone"
137 run_and_verify "$ZFS destroy $newfs"
138 run_and_verify "$ZFS destroy $newvol"
139 run_and_verify "$ZFS destroy -rf $fscclone"
140 run_and_verify "$ZFS destroy -rf $volclone"

142 log_pass "zfs sub-commands which modify state are logged passed."
```

```

*****
3095 Fri Nov 22 15:20:22 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     zpool history will truncate on small pools, leaving pool creation intact
37 #
38 # STRATEGY:
39 #     1. Create two 100M virtual disk files.
40 #     2. Create test pool using the two virtual files.
41 #     3. Loop 100 times to set and remove compression to test dataset.
42 #     4. Make sure 'zpool history' output is truncated
43 #     5. Verify that the initial pool creation is preserved.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     datasetexists $spool && log_must $ZPOOL destroy $spool
51     [[ -f $VDEV0 ]] && log_must $RM -f $VDEV0
52     [[ -f $VDEV1 ]] && log_must $RM -f $VDEV1
53     [[ -f $TMPFILE ]] && log_must $RM -f $TMPFILE
54 }

```

```

56 log_assert "zpool history limitation test."
57 log_onexit cleanup
58 #
59 mntpnt=$(get_prop mountpoint $TESTPOOL)
60 (( $? != 0 )) && log_fail "get_prop mountpoint $TESTPOOL"
61 #
62 VDEV0=$mntpnt/vdev0; VDEV1=$mntpnt/vdev1
63 log_must $MKFILE 100m $VDEV0 $VDEV1
64 #
65 spool=smallpool.$$; sfs=smallfs.$$
66 log_must $ZPOOL create $spool $VDEV0 $VDEV1
67 log_must $ZFS create $spool/$sfs
68 #
69 typeset -i orig_count=$((ZPOOL history $spool | $WC -l)
70 typeset orig_md5=$((ZPOOL history $spool | $HEAD -2 | $MD5SUM | \
71     $AWK '{print $1}')
72 #
73 typeset -i i=0
74 while ((i < 100)); do
75     $ZFS set compression=off $spool/$sfs
76     $ZFS set compression=on $spool/$sfs
77     $ZFS set compression=off $spool/$sfs
78     $ZFS set compression=on $spool/$sfs
79     $ZFS set compression=off $spool/$sfs
80     ((i += 1))
81 done
82 #
83 TMPFILE=/tmp/spool.$$
84 $ZPOOL history $spool >$TMPFILE
85 typeset -i entry_count=$((WC -l $TMPFILE | $AWK '{print $1}')
86 typeset final_md5=$((HEAD -2 $TMPFILE | $MD5SUM | $AWK '{print $1}')
87 #
88 $GREP 'zpool create' $TMPFILE >/dev/null 2>&1 ||
89     log_fail "'zpool create' was not found in pool history"
90 #
91 $GREP 'zfs create' $TMPFILE >/dev/null 2>&1 &&
92     log_fail "'zfs create' was found in pool history"
93 #
94 $GREP 'zfs set compress' $TMPFILE >/dev/null 2>&1 ||
95     log_fail "'zfs set compress' was found in pool history"
96 #
97 # Verify that the creation of the pool was preserved in the history.
98 if [[ $orig_md5 != $final_md5 ]]; then
99     log_fail "zpool creation history was not preserved."
100 fi
101 #
102 #
103 log_pass "zpool history limitation test passed."

```

```

*****
2659 Fri Nov 22 15:20:22 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     'zpool history' can cope with simultaneous commands.
37 #
38 # STRATEGY:
39 #     1. Create test pool and test fs.
40 #     2. Loop 100 times, set properties to test fs simultaneously.
41 #     3. Wait for all the command execution complete.
42 #     4. Make sure all the commands was logged by 'zpool history'.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "'zpool history' can cope with simultaneous commands."
48 #
49 typeset -i orig_count=$((ZPOOL history $spool | $WC -l | $AWK '{print $1}'))
50 #
51 typeset -i i=0
52 while ((i < 10)); do
53     $ZFS set compression=off $TESTPOOL/$TESTFS &
54     $ZFS set atime=off $TESTPOOL/$TESTFS &

```

```

55     $ZFS create $TESTPOOL/$TESTFS1 &
56     $ZFS create $TESTPOOL/$TESTFS2 &
57     $ZFS create $TESTPOOL/$TESTFS3 &
58 #
59     wait
60 #
61     $ZFS snapshot $TESTPOOL/$TESTFS1@snap &
62     $ZFS snapshot $TESTPOOL/$TESTFS2@snap &
63     $ZFS snapshot $TESTPOOL/$TESTFS3@snap &
64 #
65     wait
66 #
67     $ZFS clone $TESTPOOL/$TESTFS1@snap $TESTPOOL/clone1 &
68     $ZFS clone $TESTPOOL/$TESTFS2@snap $TESTPOOL/clone2 &
69     $ZFS clone $TESTPOOL/$TESTFS3@snap $TESTPOOL/clone3 &
70 #
71     wait
72 #
73     $ZFS promote $TESTPOOL/clone1 &
74     $ZFS promote $TESTPOOL/clone2 &
75     $ZFS promote $TESTPOOL/clone3 &
76 #
77     wait
78 #
79     $ZFS destroy $TESTPOOL/$TESTFS1 &
80     $ZFS destroy $TESTPOOL/$TESTFS2 &
81     $ZFS destroy $TESTPOOL/$TESTFS3 &
82 #
83     wait
84 #
85     $ZFS destroy -Rf $TESTPOOL/clone1 &
86     $ZFS destroy -Rf $TESTPOOL/clone2 &
87     $ZFS destroy -Rf $TESTPOOL/clone3 &
88 #
89     wait
90     ((i += 1))
91 done
92 #
93 typeset -i entry_count=$((ZPOOL history $spool | $WC -l | $AWK '{print $1}'))
94 #
95 if ((entry_count - orig_count != 200)); then
96     log_fail "The entries count error: entry_count=$entry_count \
97         "orig_count = $orig_count"
98 fi
99 #
100 log_pass "'zpool history' can cope with simultaneous commands."

```

new/usr/src/test/zfs-tests/tests/functional/history/history_005_neg.ksh 1

```
*****
1905 Fri Nov 22 15:20:22 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_005_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/history/history_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify the following zpool subcommands are not logged.
38 #         zpool get
39 #         zpool history
40 #         zpool list
41 #         zpool status
42 #         zpool iostat
43 #
44 # STRATEGY:
45 #     1. Create a test pool.
46 #     2. Separately invoke zpool list|status|iostat
47 #     3. Verify they was not recored in pool history.
48 #
49 #
50 verify_runnable "global"
51 #
52 log_assert "Verify 'zpool get|history|list|status|iostat' will not be logged."
53 #
54 # Save initial TESTPOOL history
```

new/usr/src/test/zfs-tests/tests/functional/history/history_005_neg.ksh 2

```
55 log_must eval "$ZPOOL history $TESTPOOL >$OLD_HISTORY"
56 #
57 log_must $ZPOOL get all $TESTPOOL >/dev/null
58 log_must $ZPOOL list $TESTPOOL >/dev/null
59 log_must $ZPOOL status $TESTPOOL >/dev/null
60 log_must $ZPOOL iostat $TESTPOOL >/dev/null
61 #
62 log_must eval "$ZPOOL history $TESTPOOL >$NEW_HISTORY"
63 log_must $DIFF $OLD_HISTORY $NEW_HISTORY
64 #
65 log_pass "Verify 'zpool get|history|list|status|iostat' will not be logged."
```


new/usr/src/test/zfs-tests/tests/functional/history/history_006_neg.ksh

1

2395 Fri Nov 22 15:20:23 2013

new/usr/src/test/zfs-tests/tests/functional/history/history_006_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Eric Diven <eric.diven@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/history/history_common.kshlib
33 . $STF_SUITE/include/libtest.shlib
34 #
35 #
36 # DESCRIPTION:
37 #   Verify the following zfs subcommands are not logged.
38 #   list, get, holds, mount, unmount, share, unshare, send
39 #
40 # STRATEGY:
41 #   1. Create a test pool.
42 #   2. Separately invoke zfs list|get|holds|mount|unmount|share|unshare|send
43 #   3. Verify they were not recored in pool history.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     if datasetexists $fs ; then
51         log_must $ZFS destroy -rf $fs
52     fi
53     log_must $ZFS create $fs
54 }
```

new/usr/src/test/zfs-tests/tests/functional/history/history_006_neg.ksh

2

```
56 log_assert "Verify 'zfs list|get|holds|mount|unmount|share|unshare|send' " \
57     "will not be logged."
58 log_onexit cleanup
59 #
60 # Create initial test environment
61 fs=$TESTPOOL/$TESTFS; snap1=$fs@snap1; snap2=$fs@snap2
62 log_must $ZFS set sharenfs=on $fs
63 log_must $ZFS snapshot $snap1
64 log_must $ZFS hold tag $snap1
65 log_must $ZFS snapshot $snap2
66 #
67 # Save initial TESTPOOL history
68 log_must eval "$ZPOOL history $TESTPOOL > $OLD_HISTORY"
69 #
70 log_must $ZFS list $fs > /dev/null
71 log_must $ZFS get mountpoint $fs > /dev/null
72 log_must $ZFS unmount $fs
73 log_must $ZFS mount $fs
74 log_must $ZFS share $fs
75 log_must $ZFS unshare $fs
76 log_must $ZFS send -i $snap1 $snap2 > /dev/null
77 log_must $ZFS holds $snap1
78 #
79 log_must eval "$ZPOOL history $TESTPOOL > $NEW_HISTORY"
80 log_must $DIFF $OLD_HISTORY $NEW_HISTORY
81 #
82 log_must $ZFS release tag $snap1
83 #
84 log_pass "Verify 'zfs list|get|mount|unmount|share|unshare|send' passed."
```

new/usr/src/test/zfs-tests/tests/functional/history/history_007_pos.ksh 1

```
*****
3673 Fri Nov 22 15:20:23 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/history/history_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify command history moves with pool while pool being migrated
38 #
39 # STRATEGY:
40 #     1. Import uniform platform and cross platform pools
41 #     2. Contract the command history of the imported pool
42 #     3. Compare imported history log with the previous log.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     poolexists $migratedpoolname && \
50         log_must $ZPOOL destroy -f $migratedpoolname
51 #
52     [[ -d $import_dir ]] && $RM -rf $import_dir
53 }
```

new/usr/src/test/zfs-tests/tests/functional/history/history_007_pos.ksh 2

```
55 log_assert "Verify command history moves with migrated pool."
56 log_onexit cleanup
57 #
58 tst_dir=$STF_SUITE/tests/functional/history
59 import_dir=$TESTDIR/importdir.$$
60 migrated_cmds_f=$import_dir/migrated_history.$$
61 migratedpoolname=$MIGRATEDPOOLNAME
62 typeset -i RET=1
63 typeset -i linenum=0
64 #
65 [[ ! -d $import_dir ]] && log_must $MKDIR $import_dir
66 #
67 # We test the migrations on both uniform platform and cross platform
68 for arch in "i386" "sparc"; do
69     log_must $CP $tst_dir/${arch}.orig_history.txt $import_dir
70     orig_cmds_f=$import_dir/${arch}.orig_history.txt
71     # remove blank line
72     orig_cmds_fl=$import_dir/${arch}.orig_history_1.txt
73     $CAT $orig_cmds_f | $GREP -v "^$" > $orig_cmds_fl
74 #
75     log_must $CP $tst_dir/${arch}.migratedpool.DAT.Z $import_dir
76     log_must $UNCOMPRESS $import_dir/${arch}.migratedpool.DAT.Z
77 #
78     # destroy the pool with same name, so that import operation succeeds.
79     poolexists $migratedpoolname && \
80         log_must $ZPOOL destroy -f $migratedpoolname
81 #
82     log_must $ZPOOL import -d $import_dir $migratedpoolname
83     TZ=$TIMEZONE $ZPOOL history $migratedpoolname | $GREP -v "^$" \
84         >$migrated_cmds_f
85     RET=$?
86     (( $RET != 0 )) && log_fail "$ZPOOL history $migratedpoolname fails."
87 #
88     # The migrated history file should differ with original history file on
89     # two commands -- 'export' and 'import', which are included in migrated
90     # history file but not in original history file. so, check the two
91     # commands firstly in migrated history file and then delete them, and
92     # then compare this filtered file with the original history file. They
93     # should be identical at this time.
94     for subcmd in "export" "import"; do
95         $GREP "$subcmd" $migrated_cmds_f >/dev/null 2>&1
96         RET=$?
97         (( $RET != 0 )) && log_fail "zpool $subcmd is not logged for" \
98             "the imported pool $migratedpoolname."
99     done
100 #
101     tmpfile=$import_dir/cmds_tmp.$$
102     linenum=`$CAT $migrated_cmds_f | $WC -l`
103     (( linenum = linenum - 2 ))
104     $HEAD -n $linenum $migrated_cmds_f > $tmpfile
105     log_must $DIFF $tmpfile $orig_cmds_fl
106 #
107     # cleanup for next loop testing
108     log_must $ZPOOL destroy -f $migratedpoolname
109     log_must $RM -f `ls $import_dir`
110 done
111 #
112 log_pass "Verify command history moves with migrated pool."
```

new/usr/src/test/zfs-tests/tests/functional/history/history_008_pos.ksh

1

```
*****
2247 Fri Nov 22 15:20:23 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/history/history_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Pool history records all recursive operations.
37 #
38 # STRATEGY:
39 #     1. Create a filesystem and several sub-filesystems in it.
40 #     2. Make a recursive snapshot.
41 #     3. Verify pool history records all the recursive operations.
42 #     4. Do the same verification for hold, release, inherit, rollback and
43 #        destroy.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     if datasetexists $root_testfs; then
51         log_must $ZFS destroy -rf $root_testfs
52     fi
53     log_must $ZFS create $root_testfs
54 }
```

new/usr/src/test/zfs-tests/tests/functional/history/history_008_pos.ksh

2

```
56 log_assert "Pool history records all recursive operations."
57 log_onexit cleanup
58 #
59 root_testfs=$TESTPOOL/$TESTFS
60 fs1=$root_testfs/fs1; fs2=$root_testfs/fs2; fs3=$root_testfs/fs3
61 for fs in $fs1 $fs2 $fs3; do
62     log_must $ZFS create $fs
63 done
64 #
65 run_and_verify "$ZFS snapshot -r $root_testfs@snap" "-i"
66 run_and_verify "$ZFS hold -r tag $root_testfs@snap" "-i"
67 run_and_verify "$ZFS release -r tag $root_testfs@snap" "-i"
68 log_must $ZFS snapshot $root_testfs@snap2
69 log_must $ZFS snapshot $root_testfs@snap3
70 run_and_verify "$ZFS rollback -r $root_testfs@snap" "-i"
71 run_and_verify "$ZFS inherit -r mountpoint $root_testfs" "-i"
72 run_and_verify "$ZFS destroy -r $root_testfs" "-i"
73 #
74 log_pass "Pool history records all recursive operations."
```

```

*****
3152 Fri Nov 22 15:20:24 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/tests/functional/history/history_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify the delegation internal history are correctly.
37 #
38 # STRATEGY:
39 #     1. Create test group and user.
40 #     2. Define permission sets and verify the internal history correctly.
41 #     3. Separately verify the internal history above is correct.
42 #
43 #
44 verify_runnable "global"
45 #
46 function cleanup
47 {
48     del_user $HIST_USER
49     del_group $HIST_GROUP
50 }
51 #
52 log_assert "Verify delegated commands are logged in the pool history."
53 log_onexit cleanup

```

```

55 testfs=$TESTPOOL/$TESTFS
56 # Create history test group and user and get user id and group id
57 add_group $HIST_GROUP
58 add_user $HIST_GROUP $HIST_USER
59 #
60 #     subcmd      allow_options
61 array=( "allow"      "-s @basic snapshot"
62         "allow"      "-s @set @basic"
63         "allow"      "-c create"
64         "unallow"    "-c create"
65         "allow"      "-c @set"
66         "unallow"    "-c @set"
67         "allow"      "-l -u $HIST_USER snapshot"
68         "allow"      "-u $HIST_USER snapshot"
69         "unallow"    "-u $HIST_USER snapshot"
70         "allow"      "-l -u $HIST_USER @set"
71         "allow"      "-u $HIST_USER @set"
72         "unallow"    "-u $HIST_USER @set"
73         "allow"      "-d -u $HIST_USER snapshot"
74         "allow"      "-u $HIST_USER snapshot"
75         "unallow"    "-u $HIST_USER snapshot"
76         "allow"      "-d -u $HIST_USER @set"
77         "allow"      "-u $HIST_USER @set"
78         "unallow"    "-u $HIST_USER @set"
79         "allow"      "-l -g $HIST_GROUP snapshot"
80         "allow"      "-g $HIST_GROUP snapshot"
81         "unallow"    "-g $HIST_GROUP snapshot"
82         "allow"      "-l -g $HIST_GROUP @set"
83         "allow"      "-g $HIST_GROUP @set"
84         "unallow"    "-g $HIST_GROUP @set"
85         "allow"      "-d -g $HIST_GROUP snapshot"
86         "allow"      "-g $HIST_GROUP snapshot"
87         "unallow"    "-g $HIST_GROUP snapshot"
88         "allow"      "-d -g $HIST_GROUP @set"
89         "allow"      "-g $HIST_GROUP @set"
90         "unallow"    "-g $HIST_GROUP @set"
91         "allow"      "-l -e snapshot"
92         "allow"      "-e snapshot"
93         "unallow"    "-e snapshot"
94         "allow"      "-l -e @set"
95         "allow"      "-e @set"
96         "unallow"    "-e @set"
97         "allow"      "-d -e snapshot"
98         "allow"      "-e snapshot"
99         "unallow"    "-e snapshot"
100        "allow"      "-d -e @set"
101        "allow"      "-e @set"
102        "unallow"    "-e @set"
103 )
104 #
105 typeset -i i=0
106 while ((i < ${#array[@]})); do
107     subcmd=${array[$i]}
108     options=${array[(${i} + 1)]}
109 #
110     run_and_verify "$ZFS $subcmd $options $testfs" "-i"
111     ((i += 2))
112 done
113 #
114 log_pass "Verify delegated commands are logged in the pool history."

```

new/usr/src/test/zfs-tests/tests/functional/history/history_010_pos.ksh

1

2554 Fri Nov 22 15:20:24 2013

new/usr/src/test/zfs-tests/tests/functional/history/history_010_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/history/history_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify internal long history information are correct.
37 #
38 # STRATEGY:
39 #     1. Create non-root test user and group.
40 #     2. Do some zfs operations as a root and non-root user.
41 #     3. Verify the long history information is correct.
42 #
43 #
44 verify_runnable "global"
45 #
46 function cleanup
47 {
48     del_user $HIST_USER
49     del_group $HIST_GROUP
50     datasetexists $root_testfs && log_must $ZFS destroy -rf $root_testfs
51 }
52 #
53 log_assert "Verify internal long history information are correct."
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/history/history_010_pos.ksh

2

```
56 root_testfs=$TESTPOOL/$TESTFS1
```

```
58 # Create history test group and user and get user id and group id
```

```
59 add_group $HIST_GROUP
```

```
60 add_user $HIST_GROUP $HIST_USER
```

```
62 run_and_verify "$ZFS create $root_testfs" "-l"
```

```
63 run_and_verify "$ZFS allow $HIST_GROUP snapshot,mount $root_testfs" "-l"
```

```
64 run_and_verify "$ZFS allow $HIST_USER destroy,mount $root_testfs" "-l"
```

```
65 run_and_verify "$ZFS allow $HIST_USER reservation $root_testfs" "-l"
```

```
66 run_and_verify "$ZFS allow $HIST_USER allow $root_testfs" "-l"
```

```
67 run_and_verify -u $HIST_USER "$ZFS snapshot $root_testfs@snap" "-l"
```

```
68 run_and_verify -u $HIST_USER "$ZFS destroy $root_testfs@snap" "-l"
```

```
69 run_and_verify -u $HIST_USER "$ZFS set reservation=64M $root_testfs" "-l"
```

```
70 run_and_verify -u $HIST_USER \
```

```
71     "$ZFS allow $HIST_USER reservation $root_testfs" "-l"
```

```
72 run_and_verify "$ZFS unallow $HIST_USER create $root_testfs" "-l"
```

```
73 run_and_verify "$ZFS unallow $HIST_GROUP snapshot $root_testfs" "-l"
```

```
74 run_and_verify "$ZFS destroy -r $root_testfs" "-l"
```

```
76 log_pass "Verify internal long history information pass."
```

```

*****
10380 Fri Nov 22 15:20:24 2013
new/usr/src/test/zfs-tests/tests/functional/history/history_common.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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4209 Populate zfstest with the remainder of the STF tests
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31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/history/history.cfg
33 #
34 function run_and_verify
35 {
36     typeset user pool
37     while getopts "p:u:" opt; do
38         case $opt in
39             p)
40                 pool=$OPTARG
41                 ;;
42             u)
43                 user=$OPTARG
44                 ;;
45             esac
46     done
47     shift $((($OPTIND - 1)))
48 #
49     pool=${pool:-$TESTPOOL}
50     user=${user:-"root"}
51     fullcmd="$1"
52     flags="$2"
53 #
54     histcmd=$(($ECHO $fullcmd | $SED 's/\\/usr\\/sbin\\/\\/g'))

```

```

55     cmd=$(($ECHO $histcmd | $AWK '{print $1}')
56     subcmd=$(($ECHO $histcmd | $AWK '{print $2}')
57 #
58 # If we aren't running zpool or zfs, something is wrong
59 [[ $cmd == "zpool" || $cmd == "zfs" ]] || \
60     log_fail "run_and_verify called with \"$cmd ($fullcmd)\"
61 #
62 # If this is a 'zfs receive' truncate the stdin redirect
63 [[ $subcmd == "receive" || $subcmd == "recv" ]] && \
64     histcmd=${histcmd%% < *}
65 #
66 # Run the command as the specified user, and find the new history.
67 $ZPOOL history $flags $pool > $OLD_HISTORY 2>/dev/null
68 if [[ $user == "root" ]]; then
69     log_must eval "$fullcmd"
70 else
71     log_must $SU $user -c "eval $fullcmd"
72 fi
73 $ZPOOL history $flags $pool > $TMP_HISTORY 2>/dev/null
74 $DIFF $OLD_HISTORY $TMP_HISTORY | $GREP "^> " | $SED 's/^> //g' \
75     > $NEW_HISTORY
76 #
77 # Verify what's common to every case, regardless of zpool history flags.
78 $GREP "$histcmd" $NEW_HISTORY >/dev/null 2>&1 || \
79     log_fail "Didn't find \"$histcmd\" in pool history"
80 #
81 # If 'zpool history' was called without any flags, then we're done.
82 [[ -z $flags ]] && return
83 #
84 # Verify the new history in cases that are more interesting because
85 # additional information is logged with -i or -l.
86 #
87 [[ $flags =~ "i" ]] && log_must verify_subcmd "$histcmd" "$subcmd" \
88     "$flags"
89 [[ $flags =~ "l" ]] && log_must verify_long "$histcmd" "$user" "$flags"
90 }
91 #
92 function verify_long
93 {
94     typeset cmd=$1
95     typeset user=$2
96     typeset flags=$3
97 #
98 [[ $flags =~ "l" ]] || return 1
99 #
100 typeset uid=$(($ID -u $user)
101 typeset hname=$(($HOSTNAME)
102 if ! is_global_zone; then
103     hname=$hname:$(($ZONENAME)
104 fi
105 #
106 $GREP "$cmd \[user $uid ($user) on $hname\]" $NEW_HISTORY >/dev/null \
107     2>&1
108 if [[ $? != 0 ]]; then
109     log_note "Couldn't find long information for \"$cmd\"
110     return 1
111 fi
112 #
113 return 0
114 }
115 #
116 function verify_hold
117 {
118     typeset cmd=$1
119     typeset subcmd=$2
120     typeset flags=$3

```

```

122     [[ $flags =~ "i" ]] || return 1

124     typeset tag=${ECHO $cmd | $AWK '{print $4}' }
125     typeset fullname=${cmd##* }
126     typeset dsname=${fullname%#*}
127     typeset snapname=${fullname##*@}

129     # This works whether or not the hold was recursive
130     for ds in $($ZFS list -r -Ho name -t snapshot $dsname | \
131         $GREP "@$snapname"); do
132         $GREP "$subcmd $ds ([0-9]*) tag=$tag" $NEW_HISTORY \
133             >/dev/null 2>&1
134         if [[ $? != 0 ]]; then
135             log_note "Didn't find hold on $ds with $tag"
136             return 1
137         fi
138     done

140     return 0
141 }

143 function verify_release
144 {
145     # hold and release formats only differ by the subcommand name, so
146     # simply reuse the hold function.
147     verify_hold "$1" "release" "$3"
148 }

150 function verify_rollback
151 {
152     typeset cmd=$1
153     typeset flags=$3

155     [[ $flags =~ "i" ]] || return 1

157     typeset fullname=${cmd##* }
158     typeset dsname=${fullname%#*}
159     typeset parent_fs=${dsname##*/}
160     typeset rb_fs=${dsname}/%rollback
161     typeset snapname=${fullname##*@}

163     $GREP "clone swap $rb_fs ([0-9]*) parent=$parent_fs" $NEW_HISTORY \
164         >/dev/null 2>&1
165     if [[ $? != 0 ]]; then
166         log_note "Didn't find rollback clone swap in pool history"
167         return 1
168     fi

170     $GREP "destroy $rb_fs" $NEW_HISTORY >/dev/null 2>&1
171     if [[ $? != 0 ]]; then
172         log_note "Didn't find rollback destroy in pool history"
173         return 1
174     fi

176     return 0
177 }

179 function verify_inherit
180 {
181     typeset cmd=$1
182     typeset flags=$3

184     [[ $flags =~ "i" ]] || return 1

186     typeset dsname=${cmd##* }

```

```

187     typeset prop=${cmd% *}
188     prop=${prop##* }

190     # This works whether or not the inherit was recursive
191     for ds in $($ZFS list -r -Ho name -t filesystem $dsname); do
192         $GREP "$subcmd $ds ([0-9]*) ${prop}=" $NEW_HISTORY >/dev/null \
193             2>&1
194         if [[ $? != 0 ]]; then
195             log_note "Didn't find inherit history for $ds"
196             return 1
197         fi
198     done

200     return 0
201 }

203 function verify_allow
204 {
205     typeset cmd=$1
206     typeset subcmd=$2
207     typeset flags=$3

209     [[ $flags =~ "i" ]] || return 1
210     [[ $subcmd == "allow" ]] && subcmd="update"
211     [[ $subcmd == "unallow" ]] && subcmd="remove"
212     typeset is_set lflag dflag dsname gname gid uname uid opt str code tmp

214     #
215     # Here, we determine three things:
216     # - Whether we're operating on a set or an individual permission (which
217     #   dictates the case of the first character in the code)
218     # - The name of the dataset we're operating on.
219     # - Whether the operation applies locally or to descendent datasets (or
220     #   both)
221     #
222     ECHO $cmd | $AWK '{i = NF - 1; print $i}' | $GREP '@' >/dev/null \
223         2>&1 && is_set=1
224     dsname=${cmd##* }
225     [[ $cmd =~ "-l " ]] && lflag=1
226     [[ $cmd =~ "-d " ]] && dflag=1
227     if [[ -z $lflag && -z $dflag ]]; then
228         lflag=1
229         dflag=1
230     fi

232     #
233     # For each of the five cases below, the operation is essentially the
234     # same. First, use the command passed in to determine what the code at
235     # the end of the pool history will be. The specifics of the code are
236     # described in a block comment at the top of dsl_deleg.c. Once that's
237     # been assembled, check for its presence in the history, and return
238     # success or failure accordingly.
239     #
240     if [[ $cmd =~ "-s " ]]; then
241         str="s-\@$@"
242         [[ -n $is_set ]] && str="s-\@$@"
243         tmp=${cmd##*@}
244         code="$str${tmp% *}"
245         $GREP "permission $subcmd $dsname ([0-9]*) $code" \
246             $NEW_HISTORY >/dev/null 2>&1
247         if [[ $? != 0 ]]; then
248             log_note "Couldn't find $code in $NEW_HISTORY"
249             return 1
250         fi
251     elif [[ $cmd =~ "-c " ]]; then
252         str="c-\@"

```

```

253     [[ -n $is_set ]] && str="C-\$"
254     tmp=${cmd##*-c}
255     code="${str}${tmp}*"
256     $GREP "permission $subcmd $dsname ([0-9]*) $code" \
257     $NEW_HISTORY >/dev/null 2>&1
258     if [ $? != 0 ]; then
259         log_note "Couldn't find $code in $NEW_HISTORY"
260         return 1
261     fi
262     elif [[ $cmd =~ "-u " ]]; then
263         str="u"
264         [[ -n $is_set ]] && str="U"
265         tmp=${cmd##*-u}
266         opt=$(($ECHO $tmp | $AWK '{print $2}')
267         uid=$(($ID -u ${tmp%%*}))
268         if [[ -n $lflag ]]; then
269             code="${str}l\$$uid $opt"
270             $GREP "permission $subcmd $dsname ([0-9]*) $code" \
271             $NEW_HISTORY >/dev/null 2>&1
272             if [ $? != 0 ]; then
273                 log_note "Couldn't find $code in $NEW_HISTORY"
274                 return 1
275             fi
276         fi
277         if [[ -n $dflag ]]; then
278             code="${str}d\$$uid $opt"
279             $GREP "permission $subcmd $dsname ([0-9]*) $code" \
280             $NEW_HISTORY >/dev/null 2>&1
281             if [ $? != 0 ]; then
282                 log_note "Couldn't find $code in $NEW_HISTORY"
283                 return 1
284             fi
285         fi
286     elif [[ $cmd =~ "-g " ]]; then
287         str="g"
288         [[ -n $is_set ]] && str="G"
289         tmp=${cmd##*-g}
290         opt=$(($ECHO $tmp | $AWK '{print $2}')
291         gid=$(($AWK -F: "/^${tmp%%*} */: {print \$3}" /etc/group)
292         if [[ -n $lflag ]]; then
293             code="${str}l\$$gid $opt"
294             $GREP "permission $subcmd $dsname ([0-9]*) $code" \
295             $NEW_HISTORY >/dev/null 2>&1
296             if [ $? != 0 ]; then
297                 log_note "Couldn't find $code in $NEW_HISTORY"
298                 return 1
299             fi
300         fi
301         if [[ -n $dflag ]]; then
302             code="${str}d\$$gid $opt"
303             $GREP "permission $subcmd $dsname ([0-9]*) $code" \
304             $NEW_HISTORY >/dev/null 2>&1
305             if [ $? != 0 ]; then
306                 log_note "Couldn't find $code in $NEW_HISTORY"
307                 return 1
308             fi
309         fi
310     elif [[ $cmd =~ "-e " ]]; then
311         str="e"
312         [[ -n $is_set ]] && str="E"
313         opt=${cmd##*-e}
314         opt=${opt%% *}
315         if [[ -n $lflag ]]; then
316             code="${str}l\$$opt"
317             $GREP "permission $subcmd $dsname ([0-9]*) $code" \
318             $NEW_HISTORY >/dev/null 2>&1

```

```

319         if [ $? != 0 ]; then
320             log_note "Couldn't find $code in $NEW_HISTORY"
321             return 1
322         fi
323     fi
324     if [[ -n $dflag ]]; then
325         code="${str}d\$$opt"
326         $GREP "permission $subcmd $dsname ([0-9]*) $code" \
327         $NEW_HISTORY >/dev/null 2>&1
328         if [ $? != 0 ]; then
329             log_note "Couldn't find $code in $NEW_HISTORY"
330             return 1
331         fi
332     fi
333     else
334         log_note "Can't parse command \"$cmd\""
335         return 1
336     fi
337 }
338
339 }
340
341 function verify_unallow
342 {
343     #
344     # The unallow and allow history have the same format, except the former
345     # logs "permission removed" and the latter "permission updated" so
346     # simply reuse the allow function.
347     #
348     verify_allow "$1" "unallow" "$3"
349 }
350
351 function verify_destroy
352 {
353     typeset cmd=$1
354     typeset flags=$3
355
356     # This function doesn't currently verify the zpool command.
357     [[ ${cmd%% *} == "zfs" ]] || return 1
358     [[ $flags =~ "i" ]] || return 1
359
360     typeset dsname=${cmd##* }
361     [[ $dsname =~ "@" ]] && typeset is_snap=1
362
363     if [[ -n $is_snap ]]; then
364         $GREP "ioctl destroy snaps" $NEW_HISTORY >/dev/null 2>&1
365         if [ $? != 0 ]; then
366             log_note "Didn't find ioctl while destroying $dsname"
367             return 1
368         fi
369     fi
370
371     # This should be present for datasets and snapshots alike
372     $GREP "destroy $dsname" $NEW_HISTORY >/dev/null 2>&1
373     if [ $? != 0 ]; then
374         log_note "Didn't find \"destroy\" for $dsname"
375         return 1
376     fi
377
378     return 0
379 }
380
381 function verify_snapshot
382 {
383     typeset cmd=$1
384     typeset flags=$3

```



```
386     [[ $flags =~ "i" ]] || return 1
388     typeset fullname=${cmd##* }
389     typeset dsname=${fullname%#*}
390     typeset snapname=${fullname##*@}
392     $GREP "\[txg:[0-9]*\] $subcmd $fullname ([0-9]*)" $NEW_HISTORY \
393     >/dev/null 2>&1
394     if [[ $? != 0 ]]; then
395         log_note "Didn't find snapshot command for $fullname"
396         return 1
397     fi
399     # This works whether or not the snapshot was recursive
400     for ds in $($ZFS list -r -Ho name -t snapshot $dsname | \
401     $GREP "@$snapname"); do
402         $GREP "^[ ]* $ds$" $NEW_HISTORY >/dev/null 2>&1
403         if [[ $? != 0 ]]; then
404             log_note "Didn't find \"ioctl snapshot\" for $ds"
405             return 1
406         fi
407     done
409     return 0
410 }
```

new/usr/src/test/zfs-tests/tests/functional/history/i386.migratedpool.DAT.Z

1

173047 Fri Nov 22 15:20:25 2013

new/usr/src/test/zfs-tests/tests/functional/history/i386.migratedpool.DAT.Z

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

unchanged_portion_omitted

new/usr/src/test/zfs-tests/tests/functional/history/i386.orig_history.txt

1

634 Fri Nov 22 15:20:25 2013

new/usr/src/test/zfs-tests/tests/functional/history/i386.orig_history.txt

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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Reviewed by: Christopher Siden <christopher.siden@delphix.com>

```
1 History for 'history_pool':
2 2006-10-20.13:18:37 zpool create history_pool /var/tmp/i386.migratedpool.DAT
3 2006-10-20.13:18:37 zfs create history_pool/fs
4 2006-10-20.13:18:37 zfs set compression=on history_pool/fs
5 2006-10-20.13:18:37 zfs set checksum=on history_pool
6 2006-10-20.13:18:37 zfs snapshot history_pool/fs@snap
7 2006-10-20.13:18:37 zfs clone history_pool/fs@snap history_pool/clone
8 2006-10-20.13:18:37 zfs promote history_pool/clone
9 2006-10-20.13:18:37 zfs promote history_pool/fs
10 2006-10-20.13:18:37 zfs destroy -r -R history_pool/fs
11 2006-10-20.13:18:37 zpool export history_pool
12 2007-04-05.00:05:38 zpool upgrade history_pool
```

new/usr/src/test/zfs-tests/tests/functional/history/setup.ksh

1

1053 Fri Nov 22 15:20:26 2013

new/usr/src/test/zfs-tests/tests/functional/history/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

```
1 #!/usr/bin/ksh -p
2 #
3 # CDDL HEADER START
4 #
5 # The contents of this file are subject to the terms of the
6 # Common Development and Distribution License (the "License").
7 # You may not use this file except in compliance with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 #
24 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/history/sparc.migratedpool.DAT.Z 1

163879 Fri Nov 22 15:20:26 2013

new/usr/src/test/zfs-tests/tests/functional/history/sparc.migratedpool.DAT.Z

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

unchanged_portion_omitted

new/usr/src/test/zfs-tests/tests/functional/history/sparc.orig_history.txt 1

635 Fri Nov 22 15:20:26 2013

new/usr/src/test/zfs-tests/tests/functional/history/sparc.orig_history.txt

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

```
1 History for 'history_pool':
2 2006-10-27.03:13:47 zpool create history_pool /var/tmp/sparc.migratedpool.DAT
3 2006-10-27.03:13:48 zfs create history_pool/fs
4 2006-10-27.03:13:48 zfs set compression=on history_pool/fs
5 2006-10-27.03:13:48 zfs set checksum=on history_pool
6 2006-10-27.03:13:48 zfs snapshot history_pool/fs@snap
7 2006-10-27.03:13:48 zfs clone history_pool/fs@snap history_pool/clone
8 2006-10-27.03:13:49 zfs promote history_pool/clone
9 2006-10-27.03:13:49 zfs promote history_pool/fs
10 2006-10-27.03:13:49 zfs destroy -r -R history_pool/fs
11 2006-10-27.03:13:49 zpool export history_pool
12 2007-04-05.00:41:55 zpool upgrade history_pool
```

new/usr/src/test/zfs-tests/tests/functional/history/zfs-pool-v4.dat.Z

1

73415 Fri Nov 22 15:20:27 2013

new/usr/src/test/zfs-tests/tests/functional/history/zfs-pool-v4.dat.Z

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

unchanged_portion_omitted

```
*****
```

```
1672 Fri Nov 22 15:20:27 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/inheritance/Makefile
```

```
4206 history_003_pos relies on exact size of history log and entries
```

```
4207 history_008_pos depends on obsolete internal history log message
```

```
4208 Typo in zfs_main.c: "posxiuser"
```

```
4209 Populate zfstest with the remainder of the STF tests
```

```
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
```

```
Reviewed by: Will Guyette <will.guyette@delphix.com>
```

```
Reviewed by: Eric Diven <eric.diven@delphix.com>
```

```
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
```

```
*****
```

```
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
```

```
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/inheritance
```

```
21 PROGS = cleanup \
22         inherit_001_pos
```

```
24 FILES = config001.cfg \
25         config002.cfg \
26         config003.cfg \
27         config004.cfg \
28         config005.cfg \
29         config006.cfg \
30         config007.cfg \
31         config008.cfg \
32         config009.cfg \
33         config010.cfg \
34         config011.cfg \
35         config012.cfg \
36         config013.cfg \
37         config014.cfg \
38         config015.cfg \
39         config016.cfg \
40         config017.cfg \
41         config018.cfg \
42         config019.cfg \
43         config020.cfg \
44         config021.cfg \
45         config022.cfg \
46         config023.cfg \
47         config024.cfg \
48         inherit.kshlib \
49         state001.cfg \
50         state002.cfg \
51         state003.cfg \
52         state004.cfg \
53         state005.cfg \
54         state006.cfg \
```

```
55         state007.cfg \
56         state008.cfg \
57         state009.cfg \
58         state010.cfg \
59         state011.cfg \
60         state012.cfg \
61         state013.cfg \
62         state014.cfg \
63         state015.cfg \
64         state016.cfg \
65         state017.cfg \
66         state018.cfg \
67         state019.cfg \
68         state020.cfg \
69         state021.cfg \
70         state022.cfg \
71         state023.cfg \
72         state024.cfg
```

```
74 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
75 $(CMDS) := FILEMODE = 0555
```

```
77 all lint clean clobber:
```

```
79 install: $(CMDS)
```

```
81 $(CMDS): $(TESTDIR)
```

```
83 $(TESTDIR):
84     $(INS.dir)
```

```
86 $(TESTDIR)/%: %
87     $(INS.file)
```

```
89 $(TESTDIR)/%: %.ksh
90     $(INS.rename)
```



```
*****
```

```
2184 Fri Nov 22 15:20:27 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/README.config
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # The configX.cfg files describe both the dataset hierarchy to
27 # be created but also the initial source values for the datasets
28 # properties, i.e. whether they should be left with their default values
29 # or set locally.
30 #
31 # Format for this file is as follows:
32 # <dataset name> <dataset type> <initial property setting>
33 #
34 # <dataset name> - must be the full dataset name
35 #
36 # <dataset type> - recognised types are POOL, CTR and FS
37 #
38 #
39 # <initial property setting> - can have one of the following
40 # values:
41 #
42 # default property values are left unchanged
43 #
44 # local property values are set locally
45 #
46 # - property values are left unchanged (has the
47 # same effect as 'default' but is used to indicate
48 # that the property 'source' field may be 'inherited
49 # from..' depending on the actions further up the
50 # dataset hierarchy.
51 #
52 #
53 # The configuration below creates a three tier dataset layout, consisting
54 # of a pool, container and filesystem.
```

```
55 #
56 # The top tier pool's properties being set locally, and the two
57 # lower tier properties each inheriting their values from the next tier
58 # up.
59 #
60 #
61 #
62 # Copyright (c) 2013 by Delphix. All rights reserved.
63 #
64 #
65 TESTPOOL POOL local
66 TESTPOOL/TESTCTR CTR -
67 TESTPOOL/TESTCTR/TESTFS1 FS -
```

4371 Fri Nov 22 15:20:28 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/README.state

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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26 #
27 # For every configX.cfg file there must be a corresponding stateX.cfg
28 # file. The state file both drives the operations to be performed on the
29 # dataset hierarchy which has been specified by the corresponding
30 # configX.cfg file, and also specifies the expected state of the
31 # properties after the operation has been completed.
32 #
33 # The format of the file is:
34 # <target dataset>:<command>
35 # <property source before command> <property src after command>
36 # <property source before command> <property src after command>
37 # ....
38 # ....
39 #
40 # <target dataset> - dataset upon which the <command> is to be executed. Can
41 # be any of the datasets specified in the corresponding
42 # configX.cfg file. If no command is to be executed
43 # then must be set to '--'
44 #
45 #
46 # <command> - command to be executed upon the specified dataset.
47 # Currently the only supported commands are 'inherit'
48 # or 'inherit -r'. If no command is to be executed,
49 # then must be set to '--'.
50 #
51 # <property src before command>
52 # - the 'source' (as reported in 'zfs get') for the
53 # the properties before <command> is executed. This
54 # can be 'default', 'local' or the name of a dataset

```

```

55 # from which the property is inherited. (The code
56 # automatically adds in the 'inherited from..' part
57 # of the string when doing the check.
58 #
59 # This field is for informational purposes only, to
60 # aid the user in seeing how the changes trickle down
61 # the data hierarchy.
62 #
63 # <property src after command>
64 # - the expected value of the 'source' field after the
65 # <command> has been executed on the <target dataset>.
66 # As above can be 'default', 'local', or the dataset
67 # from which the property is inherited.
68 #
69 # Two important things to note:
70 # 1) there must be a <property src..> line corresponding to each dataset
71 # line specified in the configX.cfg file.
72 #
73 #
74 # 2) There can be as many <command>/<property src> blocks as desired, but
75 # there must be at least one, and the effect of each block is cumulative
76 # (i.e. the properties are not reset back to their default values between
77 # each block. If that is desired then each block must be placed in its
78 # own state file with its own corresponding configX.cfg file).
79 #
80 #
81 # Below are two sample <command>/<property src> blocks.
82 #
83 # The first simply verifies that the properties on the top level dataset
84 # were set locally, and that the middle and bottom datasets properties
85 # were inherited from the top level pool (called TESTPOOL). Note the '--'
86 # which means that no command is to be executed, but simply that the
87 # properties settings are to be verified.
88 #
89 #
90 #
91 # Copyright (c) 2013 by Delphix. All rights reserved.
92 #
93 #
94 #--
95 #
96 local local
97 TESTPOOL TESTPOOL
98 TESTPOOL TESTPOOL
99 #
100 #
101 # The block below describes the expected state of the properties after
102 # an 'inherit -r' command has been run on the top level pool (called
103 # TESTPOOL).
104 #
105 TESTPOOL:inherit -r
106 #
107 local default
108 TESTPOOL default
109 TESTPOOL default

```

new/usr/src/test/zfs-tests/tests/functional/inheritance/cleanup.ksh

1

1052 Fri Nov 22 15:20:28 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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27 #
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . ${STF_SUITE}/include/libtest.shlib
33 #
34 $RM -rf $TESTDIR.*
35 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config001.cfg

1

1091 Fri Nov 22 15:20:29 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config001.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     -
33 TESTPOOL/TESTCTR/TESTFS1  FS     -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config002.cfg

1

1097 Fri Nov 22 15:20:29 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config002.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL      default
32 TESTPOOL/TESTCTR  CTR       local
33 TESTPOOL/TESTCTR/TESTFS1  FS        -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config003.cfg

1

1103 Fri Nov 22 15:20:29 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config003.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL                POOL    default
32 TESTPOOL/TESTCTR        CTR    default
33 TESTPOOL/TESTCTR/TESTFS1 FS     local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config004.cfg

1

1101 Fri Nov 22 15:20:30 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config004.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    default
32 TESTPOOL/TESTCTR  CTR     local
33 TESTPOOL/TESTCTR/TESTFS1  FS     local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config005.cfg

1

1095 Fri Nov 22 15:20:30 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config005.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     local
33 TESTPOOL/TESTCTR/TESTFS1  FS      -
```


new/usr/src/test/zfs-tests/tests/functional/inheritance/config006.cfg

1

1095 Fri Nov 22 15:20:30 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config006.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     -
33 TESTPOOL/TESTCTR/TESTFS1  FS     local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config007.cfg

1

1099 Fri Nov 22 15:20:31 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config007.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL                POOL    local
32 TESTPOOL/TESTCTR        CTR    local
33 TESTPOOL/TESTCTR/TESTFS1 FS    local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config008.cfg

1

1105 Fri Nov 22 15:20:31 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config008.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    default
32 TESTPOOL/TESTCTR  CTR     default
33 TESTPOOL/TESTCTR/TESTFS1  FS     default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config009.cfg

1

1105 Fri Nov 22 15:20:31 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config009.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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29 #
30 #
31 TESTPOOL          POOL    default
32 TESTPOOL/TESTCTR  CTR     default
33 TESTPOOL/TESTCTR/TESTFS1  FS     default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config010.cfg

1

1105 Fri Nov 22 15:20:32 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config010.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

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30 #
31 TESTPOOL                POOL    default
32 TESTPOOL/TESTCTR        CTR    default
33 TESTPOOL/TESTCTR/TESTFS1 FS    default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config011.cfg

1

1103 Fri Nov 22 15:20:32 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config011.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 TESTPOOL          POOL    default
32 TESTPOOL/TESTCTR  CTR     default
33 TESTPOOL/TESTCTR/TESTFS1  FS     local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config012.cfg

1

1103 Fri Nov 22 15:20:32 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config012.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 TESTPOOL          POOL    default
32 TESTPOOL/TESTCTR  CTR     default
33 TESTPOOL/TESTCTR/TESTFS1  FS     local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config013.cfg

1

1101 Fri Nov 22 15:20:33 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config013.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    default
32 TESTPOOL/TESTCTR  CTR     local
33 TESTPOOL/TESTCTR/TESTFS1  FS     local
```


new/usr/src/test/zfs-tests/tests/functional/inheritance/config014.cfg

1

1101 Fri Nov 22 15:20:33 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config014.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    default
32 TESTPOOL/TESTCTR  CTR     local
33 TESTPOOL/TESTCTR/TESTFS1  FS     local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config015.cfg

1

1097 Fri Nov 22 15:20:34 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config015.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL                POOL    default
32 TESTPOOL/TESTCTR        CTR    local
33 TESTPOOL/TESTCTR/TESTFS1 FS     -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config016.cfg

1

1097 Fri Nov 22 15:20:34 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config016.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL                POOL    default
32 TESTPOOL/TESTCTR        CTR    local
33 TESTPOOL/TESTCTR/TESTFS1 FS    -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config017.cfg

1

1095 Fri Nov 22 15:20:34 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config017.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     local
33 TESTPOOL/TESTCTR/TESTFS1  FS      -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config018.cfg

1

1095 Fri Nov 22 15:20:35 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config018.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     local
33 TESTPOOL/TESTCTR/TESTFS1  FS      -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config019.cfg

1

1091 Fri Nov 22 15:20:35 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config019.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     -
33 TESTPOOL/TESTCTR/TESTFS1  FS     -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config020.cfg

1

1091 Fri Nov 22 15:20:35 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config020.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     -
33 TESTPOOL/TESTCTR/TESTFS1  FS     -
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config021.cfg

1

1095 Fri Nov 22 15:20:36 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config021.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR CTR    -
33 TESTPOOL/TESTCTR/TESTFS1 FS     local
```


new/usr/src/test/zfs-tests/tests/functional/inheritance/config022.cfg

1

1095 Fri Nov 22 15:20:36 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config022.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

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29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     -
33 TESTPOOL/TESTCTR/TESTFS1  FS     local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config023.cfg

1

1099 Fri Nov 22 15:20:36 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config023.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 TESTPOOL                POOL    local
32 TESTPOOL/TESTCTR        CTR    local
33 TESTPOOL/TESTCTR/TESTFS1 FS    local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/config024.cfg

1

1099 Fri Nov 22 15:20:37 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/config024.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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```
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29 #
30 #
31 TESTPOOL          POOL    local
32 TESTPOOL/TESTCTR  CTR     local
33 TESTPOOL/TESTCTR/TESTFS1  FS      local
```

```

*****
3155 Fri Nov 22 15:20:37 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/inherit.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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29 #
30 #
31 #
32 # Simple function to get the source of the specified property.
33 # If unable to get the property then exits.
34 #
35 function get_prop_src # property dataset
36 {
37     typeset prop_val
38     typeset prop=$1
39     typeset dataset=$2
40
41     prop_val=`$ZFS get -H -o source $prop $dataset`
42
43     if [[ $? -ne 0 ]]; then
44         log_fail "Unable to determine the source of $prop " \
45             "property for dataset $dataset"
46     else
47         echo $prop_val
48     fi
49 }
50 #
51 #
52 # Function to check the 'source' of a property. The source can
53 # either be "default", "local", or "inherited from <parent dataset>".
54 #

```

```

55 # The 'expected src' argument must be either "default", "local", or
56 # a dataset name.
57 #
58 # Returns 0 on success, 1 on failure.
59 #
60 function verify_prop_src # child_dataset property expected_src
61 {
62     typeset target=$1
63     typeset prop=$2
64     typeset expected=$3
65
66     prop_src=`get_prop_src $prop $target`
67
68     #
69     # Rather than just checking if $prop_src == $expected
70     # we first determine what value $expected should have.
71     # This allows us to catch the case where a property
72     # has a source of "local" but we expected it to be
73     # "default"
74     #
75     if [[ $expected == "default" ]]; then
76         if [[ $prop_src != $expected ]]; then
77             log_note "Property $prop of $target has source\"
78                 \"$prop_src rather than $expected"
79             return 1
80         fi
81     elif [[ $expected == "local" ]]; then
82         if [[ $prop_src != $expected ]]; then
83             log_note "Property $prop of $target has source\"
84                 \"$prop_src rather than $expected"
85             return 1
86         fi
87     elif [[ $prop_src != "inherited from $expected" ]]; then
88         log_note "Property $prop of $expected has source $prop_src\"
89             " rather than 'inherited from $expected'"
90         return 1
91     fi
92
93     return 0
94 }
95 #
96 #
97 # Simple function to set a property to a
98 # specified value and verify it has changed
99 # correctly.
100 #
101 function set_n_verify_prop #property value dataset
102 {
103     typeset prop=$1
104     typeset prop_val=$2
105     typeset dataset=$3
106
107     $ZFS set $prop=$prop_val $dataset
108     check_val=`get_prop $prop $dataset`
109
110     if [[ $check_val != $prop_val ]]; then
111         log_fail "Property $prop of $dataset has value $check_val\"
112             " rather than $prop_val"
113     fi
114 }

```

new/usr/src/test/zfs-tests/tests/functional/inheritance/inherit_001_pos.ksh 1

```
*****
11395 Fri Nov 22 15:20:38 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/inherit_001_pos.ksh
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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/inheritance/inherit.kshlib
33 #
34 #
35 # DESCRIPTION:
36 # Test that properties are correctly inherited using 'zfs set',
37 # 'zfs inherit' and 'zfs inherit -r'.
38 #
39 # STRATEGY:
40 # 1) Read a configX.cfg file and create the specified datasets
41 # 2) Read a stateX.cfg file and execute the commands within it
42 # and verify that the properties have the correct values
43 # 3) Repeat steps 1-2 for each configX and stateX files found.
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "Test properties are inherited correctly"
49 #
50 #
51 # Simple function to create specified datasets.
52 #
53 function create_dataset { #name type disks
54     typeset dataset=$1
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/inherit_001_pos.ksh 2

```
55     typeset type=$2
56     typeset disks=$3
57 #
58     if [[ $type == "POOL" ]]; then
59         create_pool "$dataset" "$disks"
60     elif [[ $type == "CTR" ]]; then
61         log_must $ZFS create $dataset
62         log_must $ZFS set canmount=off $dataset
63     elif [[ $type == "FS" ]]; then
64         log_must $ZFS create $dataset
65     else
66         log_fail "Unrecognised type $type"
67     fi
68 #
69     list="$list $dataset"
70 }
71 #
72 #
73 # Function to walk through all the properties in a
74 # dataset, setting them to a 'local' value if required.
75 #
76 function init_props { #dataset init_code
77     typeset dataset=$1
78     typeset init_code=$2
79     typeset dir=$3
80 #
81     typeset -i i=0
82 #
83 #
84 # Though the effect of '-' and 'default' is the same we
85 # call them out via a log_note to aid in debugging the
86 # config files
87 #
88 if [[ $init_code == "-" ]]; then
89     log_note "Leaving properties for $dataset unchanged."
90     [[ $def_recordsz == 0 ]] && \
91         update_recordsz $dataset $init_code
92     return;
93 elif [[ $init_code == "default" ]]; then
94     log_note "Leaving properties for $dataset at default values."
95     [[ $def_recordsz == 0 ]] && \
96         update_recordsz $dataset $init_code
97     return;
98 elif [[ $init_code == "local" ]]; then
99     log_note "Setting properties for $dataset to local values."
100     while (( i < ${#prop[*]} )); do
101         if [[ ${prop[i]} == "recordsize" ]]; then
102             update_recordsz $dataset $init_code
103         else
104             if [[ ${prop[i]} == "mountpoint" ]]; then
105                 set_n_verify_prop ${prop[i]} \
106                     ${local_val[((i/2))]}.$dir $dataset
107             else
108                 set_n_verify_prop ${prop[i]} \
109                     ${local_val[((i/2))]} $dataset
110             fi
111         fi
112     done
113     ((i = i + 2))
114 done
115 else
116     log_fail "Unrecognised init code $init_code"
117 fi
118 }
119 #
120 #
```

```

121 # We enter this function either to update the recordsize value
122 # in the default array, or to update the local value array.
123 #
124 function update_recordsize { #dataset init_code
125     typeset dataset=$1
126     typeset init_code=$2
127     typeset idx=0
128     typeset record_val
129
130     #
131     # First need to find where the recordsize property is
132     # located in the arrays
133     #
134     while (( idx < ${#prop[*]} )); do
135         [[ ${prop[idx]} == "recordsize" ]] && break
136
137         ((idx = idx + 2))
138     done
139
140     ((idx = idx / 2))
141     record_val=`get_prop recordsize $dataset`
142     if [[ $init_code == "-" || $init_code == "default" ]]; then
143         def_val[idx]=$record_val
144         def_recordsize=1
145     elif [[ $init_code == "local" ]]; then
146         log_must $ZFS set recordsize=$record_val $dataset
147         local_val[idx]=$record_val
148     fi
149 }
150
151 #
152 # The mountpoint property is slightly different from other properties and
153 # so is handled here. For all other properties if they are set to a specific
154 # value at a higher level in the data hierarchy (i.e. checksum=on) then that
155 # value propagates down the hierarchy unchanged, with the source field being
156 # set to 'inherited from <higher dataset>'.
157 #
158 # The mountpoint property is different in that while the value propagates
159 # down the hierarchy, the value at each level is determined by a combination
160 # of the top-level value and the current level in the hierarchy.
161 #
162 # For example consider the case where we have a pool (called pool1), containing
163 # a dataset (ctr) which in turn contains a filesystem (fs). If we set the
164 # mountpoint of the pool to '/mnt2' then the mountpoints for the dataset and
165 # filesystem are '/mnt2/ctr' and '/mnt2/ctr/fs' respectively, with the 'source'
166 # field being set to 'inherited from pool1'.
167 #
168 # So at the filesystem level to calculate what our mountpoint property should
169 # be set to we walk back up the hierarchy sampling the mountpoint property at
170 # each level and forming up the expected mountpoint value piece by piece until
171 # we reach the level specified in the 'source' field, which in this example is
172 # the top-level pool.
173 #
174 function get_mntpt_val #dataset src index
175 {
176     typeset dataset=$1
177     typeset src=$2
178     typeset idx=$3
179     typeset new_path=""
180     typeset dset
181     typeset mntpt=""
182
183     if [[ $src == "local" ]]; then
184         # Extract mount points specific to datasets
185         if [[ $dataset == "TESTPOOL" ]]; then
186             mntpt=${local_val[idx]}.1

```

```

187         elif [[ $dataset == "TESTPOOL/TESTCTR" ]]; then
188             mntpt=${local_val[idx]}.2
189         else
190             mntpt=${local_val[idx]}.3
191         fi
192     elif [[ $src == "default" ]]; then
193         mntpt="/$dataset"
194     else
195         # Walk back up the hierarchy building up the
196         # expected mountpoint property value.
197         obj_name=${dataset##*/}
198
199         while [[ $src != $dataset ]]; do
200             dset=${dataset%/*}
201
202             mnt_val=`get_prop mountpoint $dset`
203
204             mod_prop_val=${mnt_val##*/}
205             new_path="/$mod_prop_val$new_path"
206             dataset=$dset
207         done
208
209         mntpt=$new_path"/"$obj_name
210     fi
211     echo $mntpt
212 }
213
214 #
215 # Simple function to verify that a property has the
216 # expected value.
217 #
218 function verify_prop_val #property dataset src index
219 {
220     typeset prop=$1
221     typeset dataset=$2
222     typeset src=$3
223     typeset idx=$4
224     typeset new_path=""
225     typeset dset
226     typeset exp_val
227     typeset prop_val
228
229     prop_val=`get_prop $prop $dataset`
230
231     # mountpoint property is handled as a special case
232     if [[ $prop == "mountpoint" ]]; then
233         exp_val=`get_mntpt_val $dataset $src $idx`
234     else
235         if [[ $src == "local" ]]; then
236             exp_val=${local_val[idx]}
237         elif [[ $src == "default" ]]; then
238             exp_val=${def_val[idx]}
239         else
240             #
241             # We are inheriting the value from somewhere
242             # up the hierarchy.
243             #
244             exp_val=`get_prop $prop $src`
245         fi
246     fi
247
248     if [[ $prop_val != $exp_val ]]; then
249         # After putback PSARC/2008/231 Apr,09,2008,
250         # the default value of aclinherit has changed to be
251         # 'restricted' instead of 'secure',
252         # but the old interface of 'secure' still exist

```

```

254         if [[ $prop != "aclinherit" || \
255             $exp_val != "secure" || \
256             $prop_val != "restricted" ]]; then
258             log_fail "$prop of $dataset is [$prop_val] rather \"
259                 \"
260                 \"than [$exp_val]\"
261         fi
262     }
264 #
265 # Function to read the configX.cfg files and create the specified
266 # dataset hierarchy
267 #
268 function scan_config { #config-file
269     typeset config_file=$1
271     DISK=${DISKS%% *}
273     list=""
274     typeset -i mount_dir=1
276     grep "^[^#]" $config_file | {
277         while read name type init ; do
278             create_dataset $name $type $DISK
279             init_props $name $init $mount_dir
280             ((mount_dir = mount_dir + 1))
281         done
282     }
283 }
285 #
286 # Function to check an exit flag, calling log_fail if that exit flag
287 # is non-zero. Can be used from code that runs in a tight loop, which
288 # would otherwise result in a lot of journal output.
289 #
290 function check_failure { # int status, error message to use
292     typeset -i exit_flag=$1
293     error_message=$2
295     if [[ $exit_flag -ne 0 ]]; then
296         log_fail "$error_message"
297     fi
298 }
301 #
302 # Main function. Executes the commands specified in the stateX.cfg
303 # files and then verifies that all the properties have the correct
304 # values and 'source' fields.
305 #
306 function scan_state { #state-file
307     typeset state_file=$1
308     typeset -i i=0
309     typeset -i j=0
311     log_note "Reading state from $state_file"
313     while ((i < ${#prop[*]}); do
314         grep "^[^#]" $state_file | {
315             while IFS=: read target op; do
316                 #
317                 # The user can if they wish specify that no
318                 # operation be performed (by specifying '-')

```

```

319         # rather than a command). This is not as
320         # useless as it sounds as it allows us to
321         # verify that the dataset hierarchy has been
322         # set up correctly as specified in the
323         # configX.cfg file (which includes 'set'ting
324         # properties at a higher level and checking
325         # that they propogate down to the lower levels.
326         #
327         # Note in a few places here, we use
328         # check_failure, rather than log_must - this
329         # substantially reduces journal output.
330         #
331         if [[ $op == "-" ]]; then
332             log_note "No operation specified"
333         else
334             export __ZFS_POOL_RESTRICT="$TESTPOOL"
335             log_must $ZFS unmount -a
336             unset __ZFS_POOL_RESTRICT
338             for p in ${prop[i]} ${prop[(i+1)]}; do
339                 $ZFS $op $p $target
340                 ret=$?
341                 check_failure $ret "$ZFS $op $p
342                     \"$target\"
343             done
344         fi
345     for check_obj in $list; do
346         read init_src final_src
348         for p in ${prop[i]} ${prop[(i+1)]}; do
349             # check failure to keep journal small
350             verify_prop_src $check_obj $p \
351                 $final_src
352             ret=$?
353             check_failure $ret "verify" \
354                 "_prop_src $check_obj $p" \
355                 "$final_src"
357         # Again, to keep journal size down.
358         verify_prop_val $p $check_obj \
359             $final_src $j
360         ret=$?
361         check_failure $ret "verify" \
362             "_prop_val $check_obj $p" \
363             "$final_src"
364     done
365     done
366     done
367     }
368     ((i = i + 2))
369     ((j = j + 1))
370 done
371 }
374 set -A prop "checksum" "" \
375     "compression" "compress" \
376     "atime" "" \
377     "devices" "" \
378     "exec" "" \
379     "setuid" "" \
380     "sharenfs" "" \
381     "recordsize" "recsize" \
382     "mountpoint" "" \
383     "snapdir" "" \
384     "aclmode" "" \

```

```
385     "aclinherit" "" \
386     "readonly" "ronly"
388 #
389 # Note except for the mountpoint default value (which is handled in
390 # the routine itself), each property specified in the 'prop' array
391 # above must have a corresponding entry in the two arrays below.
392 #
394 set -A def_val "on" "off" "on" "on" "on" \
395     "on" "off" "" \
396     "" "hidden" "discard" "secure" \
397     "off"
399 set -A local_val "off" "on" "off" "off" "off" \
400     "off" "on" "" \
401     "$TESTDIR" "visible" "groupmask" "discard" \
402     "off"
404 #
405 # Global flag indicating whether the default record size had been
406 # read.
407 #
408 typeset def_recordsize=0
410 set -A config_files $(ls $STF_SUITE/tests/functional/inheritance/config*[1-9]*.c
411 set -A state_files $(ls $STF_SUITE/tests/functional/inheritance/state*.cfg)
413 #
414 # Global list of datasets created.
415 #
416 list=""
418 typeset -i k=0
420 if [[ ${#config_files[*]} != ${#state_files[*]} ]]; then
421     log_fail "Must have the same number of config files " \
422         " (${#config_files[*]}) and state files ${#state_files[*]}"
423 fi
425 while ((k < ${#config_files[*]})); do
426     default_cleanup_noexit
427     def_recordsize=0
429     log_note "Testing configuration ${config_files[k]}"
431     scan_config ${config_files[k]}
432     scan_state ${state_files[k]}
434     ((k = k + 1))
435 done
437 log_pass "Properties correctly inherited as expected"
```


new/usr/src/test/zfs-tests/tests/functional/inheritance/state001.cfg

1

1399 Fri Nov 22 15:20:38 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state001.cfg

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # No command is actually run (hence '-:-') but rather this state file is
34 # used to verify that the property that was set on the top level pool
35 # via the 'local' keyword (in the config1.cfg file) has correctly
36 # propogated down the hierarchy.
37 #
38 # *** ASSERTION DESCRIPTION ***
39 #
40 -:-
41 #
42 local                local
43 TESTPOOL             TESTPOOL
44 TESTPOOL             TESTPOOL
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state002.cfg

1

1464 Fri Nov 22 15:20:38 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state002.cfg

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # No command is actually run (hence '-:-') but rather this state file is
34 # used to verify that the property that was set on the middle level
35 # dataset via the 'local' keyword (in the configX.cfg file) has
36 # correctly propagated down the hierarchy to the filesystem underneath,
37 # while leaving the top level pools properties unchanged.
38 #
39 # *** ASSERTION DESCRIPTION ***
40 #
41 -:-
42 #
43 default                default
44 local                  local
45 TESTPOOL/TESTCTR      TESTPOOL/TESTCTR
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state003.cfg

1

1316 Fri Nov 22 15:20:39 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state003.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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26 #
27 #
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # No command is actually run (hence '-:-') but rather this state file is
34 # used to verify that setting the filesystem's properties does not affect
35 # the properties of datasets above it in the hierarchy.
36 #
37 # *** ASSERTION DESCRIPTION ***
38 #
39 -:-
40 #
41 default          default
42 default          default
43 local            local
```


new/usr/src/test/zfs-tests/tests/functional/inheritance/state005.cfg

1

1448 Fri Nov 22 15:20:39 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state005.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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27 #
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # No command is actually run (hence '-:-') but rather this state file is
34 # used to verify that when we set a property on a top level pool, followed
35 # by a middle level dataset, that the bottom level filesystem inherits
36 # the property from the middle level dataset, and not from the top level
37 # pool.
38 #
39 # *** ASSERTION DESCRIPTION ***
40 #
41 -:-
42 #
43 local local
44 local local
45 TESTPOOL/TESTCTR TESTPOOL/TESTCTR
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state006.cfg

1

1484 Fri Nov 22 15:20:40 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state006.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # No command is actually run (hence '-:-') but rather this state file is
34 # used to verify that when we set a property on a top level pool, followed
35 # by a bottom level filesystem, that the middle level dataset inherits
36 # the property from the top level pool, and not from the bottom level
37 # filesystem.
38 #
39 # *** ASSERTION DESCRIPTION ***
40 #
41 -:-
42 #
43 # <prop src before cmd>          <prop src after cmd>
44 #
45 local                          local
46 TESTPOOL                       TESTPOOL
47 local                          local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state007.cfg

1

1376 Fri Nov 22 15:20:40 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state007.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # No command is actually run (hence '-:-') but rather this state file is
34 # used to verify that when we can set properties on each level of the
35 # hierarchy independently.
36 #
37 # *** ASSERTION DESCRIPTION ***
38 #
39 -:-
40 #
41 # <prop src before cmd>          <prop src after cmd>
42 #
43 local                          local
44 local                          local
45 local                          local
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state008.cfg

1

1342 Fri Nov 22 15:20:40 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state008.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # No command is actually run (hence '-:-') but rather this state file is
34 # used to verify that when we create a dataset hierarchy that the
35 # properties of each dataset have their default values.
36 #
37 # *** ASSERTION DESCRIPTION ***
38 #
39 -:-
40 #
41 # <prop src before cmd>          <prop src after cmd>
42 default                          default
43 default                          default
44 default                          default
```

1465 Fri Nov 22 15:20:41 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/state009.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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27 #
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit' at different levels of a
34 # data hierarchy where the properties of each dataset have their
35 # default values leaves the values unchanged.
36 #
37 # *** ASSERTION DESCRIPTION ***
38 #
39 #
40 TESTPOOL:inherit
41 #
42 default default
43 default default
44 default default
45 #
46 TESTPOOL/TESTCTR:inherit
47 #
48 default default
49 default default
50 default default
51 #
52 TESTPOOL/TESTCTR/TESTFS1:inherit
53 #
54 default default
```

```
55 default default
56 default default
57 #
```

1475 Fri Nov 22 15:20:41 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state010.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit -r' at different levels of a
34 # data hierarchy where the properties of each dataset have their
35 # default values leaves the values unchanged.
36 #
37 # *** ASSERTION DESCRIPTION ***
38 #
39 TESTPOOL:inherit -r
40 #
41 default                default
42 default                default
43 default                default
44 #
45 TESTPOOL/TESTCTR:inherit -r
46 #
47 default                default
48 default                default
49 default                default
50 #
51 TESTPOOL/TESTCTR/TESTFS1:inherit -r
52 #
53 default                default
54 default                default

```

55	default	default
56	#	

1537 Fri Nov 22 15:20:41 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/state011.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that running 'zfs inherit' at each level of the data hierarchy
34 # when the bottom filesystem level properties have been set locally has
35 # no effect except at the bottom level where the property values are
36 # inherited from the middle level dataset.
37 #
38 # *** ASSERTION DESCRIPTION ***
39 #
40 #
41 TESTPOOL:inherit
42 #
43 default default
44 default default
45 local local
46 #
47 TESTPOOL/TESTCTR:inherit
48 #
49 default default
50 default default
51 local local
52 #
53 TESTPOOL/TESTCTR/TESTFS1:inherit
54 #
```

```
55 default default
56 default default
57 local default
58 #
```

1751 Fri Nov 22 15:20:42 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/state012.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that running 'zfs inherit -r' at each level of the data hierarchy
34 # when the bottom filesystem level properties have been set locally results
35 # in the top level property values being propogated down the data
36 # hierarchy.
37 #
38 # Executing inherit -r at the middle level and bottom levels after
39 # running it at the top level is somewhat redundant as the top level value
40 # should propogate down the entire data hierarchy. Done for completeness
41 # sake.
42 #
43 # *** ASSERTION DESCRIPTION ***
44 #
45 TESTPOOL:inherit -r
46 #
47 default default
48 default default
49 local default
50 #
51 TESTPOOL/TESTCTR:inherit -r
52 #
53 default default
54 default default
```

```
55 default default
56 #
57 TESTPOOL/TESTCTR/TESTFS1:inherit -r
58 #
59 default default
60 default default
61 default default
62 #
```

```

*****
1489 Fri Nov 22 15:20:42 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/state013.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit' on each level when the middle
34 # and bottom levels properties are set locally results in the middle and
35 # bottom levels inheriting values from the next level up in the hierarchy.
36 #
37 # *** ASSERTION DESCRIPTION ***
38 #
39 TESTPOOL:inherit
40 #
41 default                default
42 local                  local
43 local                  local
44 #
45 TESTPOOL/TESTCTR:inherit
46 #
47 default                default
48 local                  default
49 local                  local
50 #
51 TESTPOOL/TESTCTR/TESTFS1:inherit
52 #
53 default                default
54 default                default

```

```

55 local                default
56 #

```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state014.cfg

1

1756 Fri Nov 22 15:20:42 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state014.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that running 'zfs inherit -r' at each level of the data hierarchy
34 # when the bottom and middle level properties have been set locally results
35 # in the top level property values being propagated down the data
36 # hierarchy.
37 #
38 # Note : executing inherit -r at the middle level and bottom levels after
39 # running it at the top level is somewhat redundant as the top level value
40 # should propagate down the entire data hierarchy. Done for completeness
41 # sake.
42 #
43 # *** ASSERTION DESCRIPTION ***
44 #
45 TESTPOOL:inherit -r
46 #
47 default                default
48 local                  default
49 local                  default
50 #
51 TESTPOOL/TESTCTR:inherit -r
52 #
53 default                default
54 default                default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state014.cfg

2

```
55 default                default
56 #
57 TESTPOOL/TESTCTR/TESTFS1:inherit -r
58 #
59 default                default
60 default                default
61 default                default
62 #
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state015.cfg

1

2011 Fri Nov 22 15:20:42 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state015.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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27 #
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit' at the top level in the hierarchy
34 # when the middle level properties are set locally, and the bottom
35 # level has inherited its value from the middle level, results in no change
36 # to the top level properties.
37 #
38 # Executing 'zfs inherit' at the middle level results in the middle level
39 # inheriting its value from the top level, and passing the values down to
40 # the bottom level.
41 #
42 # Executing 'zfs inherit' at the bottom level is somewhat redundant but
43 # is done for completeness sake.
44 #
45 # *** ASSERTION DESCRIPTION ***
46 #
47 #
48 TESTPOOL:inherit
49 #
50 default                default
51 local                  local
52 TESTPOOL/TESTCTR      TESTPOOL/TESTCTR
53 #
54 #
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state015.cfg

2

```
55 TESTPOOL/TESTCTR:inherit
56 #
57 default                default
58 local                  default
59 TESTPOOL/TESTCTR      default
60 #
61 #
62 TESTPOOL/TESTCTR/TESTFS1:inherit
63 #
64 default                default
65 default                default
66 default                default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state016.cfg

1

1783 Fri Nov 22 15:20:43 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state016.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit -r' at the top level in the hierarchy
34 # when the middle level properties are set locally, and the bottom
35 # level has inherited its value from the middle level, results in no change
36 # to the top level properties and the middle and bottom properties changing
37 # to the top level (default) values.
38 #
39 # Executing 'zfs inherit -r' at the bottom and middle levels after executing
40 # at the top level is somewhat redundant but ss done for completeness sake.
41 #
42 # *** ASSERTION DESCRIPTION ***
43 #
44 #
45 TESTPOOL:inherit -r
46 #
47 default                default
48 local                  default
49 TESTPOOL                default
50 #
51 TESTPOOL/TESTCTR:inherit -r
52 #
53 default                default
54 default                default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state016.cfg

2

```
55 default                default
56 #
57 TESTPOOL/TESTCTR/TESTFS1:inherit -r
58 #
59 default                default
60 default                default
61 default                default
62 #
```

2090 Fri Nov 22 15:20:43 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/state017.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit' at the top level in the hierarchy
34 # when the top level and middle level datasets properties are set locally,
35 # and the bottom level has inherited its properties from the middle
36 # level, results in the top level properties reverting back to their
37 # default values.
38 #
39 # Executing 'zfs inherit' at the middle level results in the middle level
40 # inheriting its value from the top level (which is now default), and passing
41 # the values down to the bottom level.
42 #
43 # Executing 'zfs inherit' at the bottom level is somewhat redundant but
44 # is done for completeness sake.
45 #
46 # *** ASSERTION DESCRIPTION ***
47 #
48 #
49 TESTPOOL:inherit
50 #
51 local default
52 local local
53 TESTPOOL/TESTCTR TESTPOOL/TESTCTR
54 #
```

```
55 #
56 TESTPOOL/TESTCTR:inherit
57 #
58 default default
59 local default
60 TESTPOOL/TESTCTR default
61 #
62 #
63 TESTPOOL/TESTCTR/TESTFS1:inherit
64 #
65 default default
66 default default
67 default default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state018.cfg

1

1831 Fri Nov 22 15:20:43 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state018.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit -r' at the top level in the hierarchy
34 # when the top level and middle level datasets properties are set locally,
35 # and the bottom level has inherited its properties from the middle
36 # level, results in the top level properties reverting back to their
37 # default values and being propagated down to the other datasets in the
38 # hierarchy.
39 #
40 # Executing 'zfs inherit -r' at the middle and bottom levels after executing
41 # it at the top level is somewhat redundant but is done for completeness sake.
42 #
43 # *** ASSERTION DESCRIPTION ***
44 #
45 #
46 TESTPOOL:inherit -r
47 #
48 local                default
49 local                default
50 TESTPOOL/TESTCTR    default
51 #
52 #
53 TESTPOOL/TESTCTR:inherit -r
54 #
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state018.cfg

2

```
55 default                default
56 default                default
57 default                default
58 #
59 #
60 TESTPOOL/TESTCTR/TESTFS1:inherit
61 #
62 default                default
63 default                default
64 default                default
```

1741 Fri Nov 22 15:20:44 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/state019.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit' at the top level in the hierarchy
34 # when the top level properties are set locally and the middle and bottom
35 # datasets have inherited from the top level, results in the top level
36 # properties reverting back to their default values, the middle and bottom
37 # levels inheriting the changed values.
38 #
39 # Executing 'zfs inherit' at the middle and bottom levels is somewhat
40 # redundant but is done for completeness sake.
41 #
42 # *** ASSERTION DESCRIPTION ***
43 #
44 TESTPOOL:inherit
45 #
46 local default
47 TESTPOOL default
48 TESTPOOL default
49 #
50 #
51 TESTPOOL/TESTCTR:inherit
52 #
53 default default
54 default default
```

```
55 default default
56 #
57 #
58 TESTPOOL/TESTCTR/TESTFS1:inherit
59 #
60 default default
61 default default
62 default default
63 #
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state020.cfg

1

1758 Fri Nov 22 15:20:44 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state020.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit -r' at the top level in the hierarchy
34 # when the top level properties are set locally and the middle and bottom
35 # datasets have inherited from the top level, results in the top level
36 # properties reverting back to their default values, the middle and bottom
37 # levels inheriting the changed values.
38 #
39 # Executing 'zfs inherit -r' at the middle and bottom levels is somewhat
40 # redundant but is done for completeness sake.
41 #
42 # *** ASSERTION DESCRIPTION ***
43 #
44 #
45 TESTPOOL:inherit -r
46 #
47 local                default
48 TESTPOOL              default
49 TESTPOOL              default
50 #
51 #
52 TESTPOOL/TESTCTR:inherit -r
53 #
54 default              default
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state020.cfg

2

```
55 default              default
56 default              default
57 #
58 #
59 TESTPOOL/TESTCTR/TESTFS1:inherit -r
60 #
61 default              default
62 default              default
63 default              default
64 #
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state021.cfg

1

1716 Fri Nov 22 15:20:44 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state021.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit' at the top level in the hierarchy
34 # when the top level and bottom level properties are set locally and the
35 # middle dataset has inherited from the top level, results in the top level
36 # properties reverting back to their default values, and the middle level
37 # inheriting the new top level value.
38 #
39 # Executing 'zfs inherit' at the bottom level results in it inheriting
40 # the middle level values.
41 #
42 # *** ASSERTION DESCRIPTION ***
43 #
44 #
45 TESTPOOL:inherit
46 #
47 local                default
48 TESTPOOL             default
49 local                local
50 #
51 #
52 TESTPOOL/TESTCTR:inherit
53 #
54 default              default

```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state021.cfg

2

```

55 default              default
56 local                local
57 #
58 #
59 TESTPOOL/TESTCTR/TESTFS1:inherit
60 #
61 default              default
62 default              default
63 local                default
64 #

```

1758 Fri Nov 22 15:20:44 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state022.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit -r' at the top level in the hierarchy
34 # when the top level and bottom level properties are set locally and the
35 # middle dataset has inherited from the top level, results in the top level
36 # properties reverting back to their default values, the middle and bottom
37 # levels inheriting the changed values.
38 #
39 # Executing 'zfs inherit -r' at the middle and bottom levels is somewhat
40 # redundant but is done for completeness sake.
41 #
42 # *** ASSERTION DESCRIPTION ***
43 #
44 TESTPOOL:inherit -r
45 #
46 local default
47 TESTPOOL default
48 local default
49 #
50 #
51 TESTPOOL/TESTCTR:inherit -r
52 #
53 default default
54 default default

```

```

55 default default
56 #
57 #
58 TESTPOOL/TESTCTR/TESTFS1:inherit -r
59 #
60 default default
61 default default
62 default default
63 #

```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state023.cfg

1

1699 Fri Nov 22 15:20:45 2013

new/usr/src/test/zfs-tests/tests/functional/inheritance/state023.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit' at the top level in the hierarchy
34 # when each levels properties are set locally, results in the top level
35 # properties reverting back to their default values.
36 #
37 # Executing 'zfs inherit' at the middle level results in it inheriting
38 # the top levels (now default) values
39 #
40 # Executing 'zfs inherit' at the bottom level results in it inheriting
41 # the middle levels (now default) values
42 #
43 # *** ASSERTION DESCRIPTION ***
44 #
45 #
46 TESTPOOL:inherit
47 #
48 local                default
49 local                local
50 local                local
51 #
52 #
53 TESTPOOL/TESTCTR:inherit
54 #
```

new/usr/src/test/zfs-tests/tests/functional/inheritance/state023.cfg

2

```
55 default                default
56 local                default
57 local                local
58 #
59 #
60 TESTPOOL/TESTCTR/TESTFS1:inherit
61 #
62 default                default
63 default                default
64 local                default
65 #
```

1703 Fri Nov 22 15:20:45 2013
new/usr/src/test/zfs-tests/tests/functional/inheritance/state024.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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29 #
30 #
31 # *** ASSERTION DESCRIPTION ***
32 #
33 # Verify that executing 'zfs inherit -r' at the top level in the hierarchy
34 # when each levels properties are set locally, results in the top level
35 # properties reverting back to their default values, and the changed
36 # values being propogated down the hierarchy.
37 #
38 # Executing 'zfs inherit -r' at the middle and bottom levels after doing so
39 # at the top level is somewhat redundant but is done for completeness.
40 #
41 # *** ASSERTION DESCRIPTION ***
42 #
43 #
44 TESTPOOL:inherit -r
45 #
46 local default
47 local default
48 local default
49 #
50 #
51 TESTPOOL/TESTCTR:inherit
52 #
53 default default
54 default default
```

```
55 default default
56 #
57 #
58 TESTPOOL/TESTCTR/TESTFS1:inherit
59 #
60 default default
61 default default
62 default default
63 #
```


new/usr/src/test/zfs-tests/tests/functional/interop/Makefile

1

882 Fri Nov 22 15:20:46 2013

new/usr/src/test/zfs-tests/tests/functional/interop/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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```

```
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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/interop
```

```
21 PROGS = cleanup \
22         interop_001_pos \
23         setup
```

```
25 FILES = interop.cfg
```

```
27 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
28 $(CMDS) := FILEMODE = 0555
```

```
30 all lint clean clobber:
```

```
32 install: $(CMDS)
```

```
34 $(CMDS): $(TESTDIR)
```

```
36 $(TESTDIR):
37     $(INS.dir)
```

```
39 $(TESTDIR)/%: %.ksh
40     $(INS.rename)
```

```
42 $(TESTDIR)/%: %
43     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/interop/cleanup.ksh

1

1899 Fri Nov 22 15:20:46 2013

new/usr/src/test/zfs-tests/tests/functional/interop/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/interop/interop.cfg
34 #
35 verify_runnable "global"
36 #
37 ismounted $TESTPOOL/$TESTFS
38 (( $? == 0 )) && log_must $ZFS umount -f $TESTDIR
39 destroy_pool $TESTPOOL
40 #
41 $METASTAT $META_DEVICE_ID > /dev/null 2>&1
42 if (( $? == 0 )); then
43     log_note "Clearing meta device ($META_DEVICE_ID)"
44     $METACLEAR -f $META_DEVICE_ID > /dev/null 2>&1
45 fi
46 #
47 typeset metadb=""
48 typeset i=""
49 #
50 metadb=`$METADB | $CUT -f6 | $GREP dev | $UNIQ`
51 for i in $metadb; do
52     log_note "Clearing meta db ($i)"
53     $METADB -fd $i > /dev/null 2>&1
54 done
```

new/usr/src/test/zfs-tests/tests/functional/interop/cleanup.ksh

2

```
56 # recreate and destroy a zpool over the disks to restore the partitions to
57 # normal
58 case $DISK_COUNT in
59 0)
60     log_note "No disk devices to restore"
61     ;;
62 1)
63     log_must cleanup_devices $ZFS_DISK2
64     ;;
65 2)
66     log_must cleanup_devices $META_DISK0 $ZFS_DISK2
67     ;;
68 *)
69     log_must cleanup_devices $META_DISK0 $META_DISK1 $ZFS_DISK2
70     ;;
71 esac
72 #
73 log_pass "Cleanup has been successful"
```

```

*****
2367 Fri Nov 22 15:20:46 2013
new/usr/src/test/zfs-tests/tests/functional/interop/interop.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 set -A disk_array ${(find_disks $DISKS)}
34 case "${#disk_array[*]}" in
35 0)
36     DISK_COUNT=0
37     ;;
38 1)
39     # We need to repartition the single disk to two slices
40     DISK_COUNT=1
41     META_DISK0=${disk_array[0]}
42     SINGLE_DISK=$META_DISK0
43     META_DISK1=$META_DISK0
44     ZFS_DISK2=$META_DISK0
45     META_SIDE0=${SINGLE_DISK}s0
46     META_SIDE1=${SINGLE_DISK}s1
47     ZFS_SIDE2=${SINGLE_DISK}s3
48     ;;
49 2)
50     # We need to repartition the single disk to two slices and allocate
51     # the 2nd disk to ZFS
52     DISK_COUNT=2
53     META_DISK0=${disk_array[0]}
54     SINGLE_DISK=$META_DISK0

```

```

55     META_DISK1=$META_DISK0
56     ZFS_DISK2=${disk_array[1]}
57     META_SIDE0=${SINGLE_DISK}s0
58     META_SIDE1=${SINGLE_DISK}s1
59     ZFS_SIDE2=${ZFS_DISK2}s0
60     ;;
61 *)
62     # In this case there are at least enough disks to use.
63     DISK_COUNT=3
64     META_DISK0=${disk_array[0]}
65     META_DISK1=${disk_array[1]}
66     ZFS_DISK2=${disk_array[2]}
67     META_SIDE0=${META_DISK0}s0
68     META_SIDE1=${META_DISK1}s0
69     ZFS_SIDE2=${ZFS_DISK2}s0
70     ;;
71 esac
72 #
73 export DISK_COUNT META_DISK0 META_DISK1 ZFS_DISK2
74 export META_SIDE0 META_SIDE1 ZFS_SIDE2 SINGLE_DISK
75 #
76 export TESTFILE=testfile
77 export FS_SIZE=500m
78 export META_DEVICE_ID=d99
79 export META_DEVICE_PATH=/dev/md/dsk/$META_DEVICE_ID
80 export FILE_COUNT=20
81 export FILE_SIZE=$(( 1024 * 1024 ))

```

new/usr/src/test/zfs-tests/tests/functional/interop/interop_001_pos.ksh

1

```
*****
2525 Fri Nov 22 15:20:47 2013
new/usr/src/test/zfs-tests/tests/functional/interop/interop_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/interop/interop.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Create a SVM device and add this to an existing ZFS pool
38 #
39 # STRATEGY:
40 # 1. Create a SVM metadvice
41 # 2. Create a ZFS file system
42 # 3. Add SVM metadvice to the ZFS pool
43 # 4. Create files and fill the pool.
44 #
45 #
46 #
47 function cleanup
48 {
49     $RM -rf $TESTDIR/*
50 }
51 #
52 log_assert "Create a SVM device and add this to an existing ZFS pool"
53 #
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/interop/interop_001_pos.ksh

2

```
56 # the current size of the test pool
57 typeset -i oldsize=`$ZFS get -pH -o value available $TESTPOOL`

59 log_must $ZPOOL add $TESTPOOL $META_DEVICE_PATH
60 log_must $ZPOOL iostat -v | $GREP $META_DEVICE_ID

62 # the size of the test pool after adding the extra device
63 typeset -i newsize=`$ZFS get -pH -o value available $TESTPOOL`

65 (( $oldsize >= $newsize )) && \
66     log_fail "Pool space available ($oldsize) before adding a new device was "\
67             "larger than the space available ($newsize) afterwards."

69 log_note "Pool space available was ($oldsize), it's now ($newsize)"

71 typeset -i odirnum=1
72 typeset -i idirnum=0
73 typeset -i filenum=0
74 typeset -i retval=0
75 typeset bg=$TESTDIR/bigdirectory

77 fill_fs $bg 20 25 $FILE_SIZE $FILE_COUNT
78 retval=$?

80 afterwritepoolavail=`$ZFS get -pH -o value available $TESTPOOL`
81 readonly ENOSPC=28

83 (( $retval == $ENOSPC && $afterwritepoolavail < $oldsize )) && \
84     log_pass "Successfully used (($newsize - $oldsize) bytes) in "\
85             "pool provided by SVM metadvice"

87 log_fail "Failed to use space in pool (($newsize - $oldsize)bytes) "\
88             "provided by SVM metadvice"
```

new/usr/src/test/zfs-tests/tests/functional/interop/setup.ksh

1

2521 Fri Nov 22 15:20:47 2013
new/usr/src/test/zfs-tests/tests/functional/interop/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/interop/interop.cfg
34 #
35 verify_runnable "global"
36 #
37 case $DISK_COUNT in
38 0)
39     log_untested "Need at least 1 disk device for test"
40     ;;
41 1)
42     log_note "Partitioning a single disk ($SINGLE_DISK)"
43     ;;
44 2)
45     log_note "Partitioning a disks ($SINGLE_DISK) and ($ZFS_DISK2)"
46     ;;
47 3)
48     log_note "Partitioning disks ($META_DISK0 $META_DISK1 $ZFS_DISK2)"
49     ;;
50 esac
51 #
52 log_must set_partition ${META_SIDE0##*s} "" $FS_SIZE $META_DISK0
53 if [[ $WRAPPER == *smi* && $META_DISK1 == $META_DISK0 ]]; then
54     typeset i=${META_SIDE0##*s}
```

new/usr/src/test/zfs-tests/tests/functional/interop/setup.ksh

2

```
55     typeset cyl=$(get_endslice $META_DISK0 $i)
56     log_must set_partition ${META_SIDE1##*s} "$cyl" $FS_SIZE $META_DISK1
57 else
58     log_must set_partition ${META_SIDE1##*s} "" $FS_SIZE $META_DISK1
59 fi
60 if [[ $WRAPPER == *smi* && $ZFS_DISK2 == $META_DISK1 ]]; then
61     typeset i=${META_SIDE1##*s}
62     typeset cyl=$(get_endslice $META_DISK1 $i)
63     log_must set_partition ${ZFS_SIDE2##*s} "$cyl" $FS_SIZE $ZFS_DISK2
64 else
65     log_must set_partition ${ZFS_SIDE2##*s} "" $FS_SIZE $ZFS_DISK2
66 fi
67 #
68 create_pool $TESTPOOL $ZFS_SIDE2
69 #
70 $RM -rf $TESTDIR || log_unresolved Could not remove $TESTDIR
71 $MKDIR -p $TESTDIR || log_unresolved Could not create $TESTDIR
72 #
73 log_must $ZFS create $TESTPOOL/$TESTFS
74 log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
75 log_must $ZFS set compression=off $TESTPOOL/$TESTFS
76 #
77 log_note "Configuring metadb with $META_SIDE1"
78 log_must $METADB -a -f -c 3 $META_SIDE1
79 #
80 log_note "Configure $META_DEVICE_ID with $META_SIDE0"
81 log_must $METAINIT $META_DEVICE_ID 1 1 $META_SIDE0
82 #
83 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/inuse/Makefile

1

1012 Fri Nov 22 15:20:47 2013

new/usr/src/test/zfs-tests/tests/functional/inuse/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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```

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/inuse
```

```
21 PROGS = cleanup \
22         inuse_001_pos \
23         inuse_002_pos \
24         inuse_003_pos \
25         inuse_004_pos \
26         inuse_005_pos \
27         inuse_006_pos \
28         inuse_007_pos \
29         inuse_008_pos \
30         inuse_009_pos \
31         setup
```

```
33 FILES = inuse.cfg
```

```
35 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
36 $(CMDS) := FILEMODE = 0555
```

```
38 all lint clean clobber:
```

```
40 install: $(CMDS)
```

```
42 $(CMDS): $(TESTDIR)
```

```
44 $(TESTDIR):
```

```
45     $(INS.dir)
```

```
47 $(TESTDIR)/%: %.ksh
```

```
48     $(INS.rename)
```

```
50 $(TESTDIR)/%: %
```

```
51     $(INS.file)
```

```

*****
3592 Fri Nov 22 15:20:48 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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31 . $STF_SUITE/include/libtest.shlib
32 #
33 verify_disk_count "$DISKS" 2
34 set -A disk_array $(find_disks $DISKS)
35 case "${#disk_array[@]}" in
36 2)
37     FS_DISK0=${disk_array[0]}
38     FS_DISK1=${disk_array[1]}
39     FS_DISK2=${disk_array[0]}
40     FS_DISK3=${disk_array[1]}
41     FS_SIDE0=${FS_DISK0}s0
42     FS_SIDE1=${FS_DISK0}s1
43     FS_SIDE2=${FS_DISK1}s0
44     FS_SIDE3=${FS_DISK1}s1
45     disk0="/dev/dsk/$FS_SIDE0"
46     disk1="/dev/dsk/$FS_SIDE1"
47     disk2="/dev/dsk/$FS_SIDE2"
48     disk3="/dev/dsk/$FS_SIDE3"
49     disktargets="$disk0 $disk2"
50     rawdisk0="/dev/rdisk/$FS_SIDE0"
51     rawdisk1="/dev/rdisk/$FS_SIDE1"
52     rawdisk2="/dev/rdisk/$FS_SIDE2"
53     rawdisk3="/dev/rdisk/$FS_SIDE3"
54     rawtargets="$rawdisk0 $rawdisk2"

```

```

55     vdisks="$FS_DISK0"
56     sdisks="$FS_DISK1"
57     vslices="$FS_SIDE0 $FS_SIDE1 $FS_SIDE2"
58     sslices="$FS_SIDE3"
59     ;;
60 3)
61     FS_DISK0=${disk_array[0]}
62     FS_DISK1=${disk_array[1]}
63     FS_DISK2=${disk_array[2]}
64     FS_DISK3=${disk_array[0]}
65     FS_SIDE0=${FS_DISK0}s0
66     FS_SIDE1=${FS_DISK0}s1
67     FS_SIDE2=${FS_DISK1}s0
68     FS_SIDE3=${FS_DISK2}s0
69     disk0="/dev/dsk/$FS_SIDE0"
70     disk1="/dev/dsk/$FS_SIDE1"
71     disk2="/dev/dsk/$FS_SIDE2"
72     disk3="/dev/dsk/$FS_SIDE3"
73     disktargets="$disk0 $disk2 $disk3"
74     rawdisk0="/dev/rdisk/$FS_SIDE0"
75     rawdisk1="/dev/rdisk/$FS_SIDE1"
76     rawdisk2="/dev/rdisk/$FS_SIDE2"
77     rawdisk3="/dev/rdisk/$FS_SIDE3"
78     rawtargets="$rawdisk0 $rawdisk2 $rawdisk3"
79     vdisks="$FS_DISK0 $FS_DISK1"
80     sdisks="$FS_DISK2"
81     vslices="$FS_SIDE0 $FS_SIDE2 $FS_SIDE3"
82     sslices="$FS_SIDE1"
83     ;;
84 *)
85     FS_DISK0=${disk_array[0]}
86     FS_DISK1=${disk_array[1]}
87     FS_DISK2=${disk_array[2]}
88     FS_DISK3=${disk_array[3]}
89     FS_SIDE0=${FS_DISK0}s0
90     FS_SIDE1=${FS_DISK1}s0
91     FS_SIDE2=${FS_DISK2}s0
92     FS_SIDE3=${FS_DISK3}s0
93     disk0="/dev/dsk/$FS_SIDE0"
94     disk1="/dev/dsk/$FS_SIDE1"
95     disk2="/dev/dsk/$FS_SIDE2"
96     disk3="/dev/dsk/$FS_SIDE3"
97     disktargets="$disk0 $disk1 $disk2 $disk3"
98     rawdisk0="/dev/rdisk/$FS_SIDE0"
99     rawdisk1="/dev/rdisk/$FS_SIDE1"
100    rawdisk2="/dev/rdisk/$FS_SIDE2"
101    rawdisk3="/dev/rdisk/$FS_SIDE3"
102    rawtargets="$rawdisk0 $rawdisk1 $rawdisk2 $rawdisk3"
103    vdisks="$FS_DISK0 $FS_DISK1 $FS_DISK2"
104    sdisks="$FS_DISK3"
105    vslices="$FS_SIDE0 $FS_SIDE1 $FS_SIDE2"
106    sslices="$FS_SIDE3"
107    ;;
108 esac
109 #
110 export FS_DISK0 FS_DISK1 FS_DISK2 FS_DISK3 SINGLE_DISK
111 export FS_SIDE0 FS_SIDE1 FS_SIDE2 FS_SIDE3
112 export disk0 disk1 disk2 disk3 disktargets
113 export rawdisk0 rawdisk1 rawdisk2 rawdisk3 rawtargets
114 export vdisks sdisks vslices sslices
115 #
116 export UFSMP=$TESTDIR/testinuseufsdump
117 export FS_SIZE=1g
118 export PREVDUMPDEV=""
119 export PIDUFSDUMP=""
120 export PIDUFSRESTORE=""

```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse.cfg

3

```
121 # size of block to be written to test file - currently 1mb
122 export BLOCK_SIZE=$(( 1024 * 1024 ))
123 # number of blocks to write == size of file
124 export BLOCK_COUNT=100
125 export STF_TIMEOUT=1200          # 20 minutes max.
```


new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_001_pos.ksh

1

```
*****
2452 Fri Nov 22 15:20:48 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # ZFS will not interfere with devices that are in use by dumpadm.
38 #
39 # STRATEGY:
40 # 1. Create crash dump device using 'dumpadm'
41 # 2. Try to create a ZFS pool using the 'dumpadm' crash dump device.
42 #
43 #
44 verify_runnable "global"
45 #
46 function cleanup
47 {
48     #
49     # Remove dump device.
50     #
51     if [[ -n $PREVDUMPDEV ]]; then
52         log_must $DUMPADM -u -d $PREVDUMPDEV > /dev/null
53     fi
54 }
```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_001_pos.ksh

2

```
55     destroy_pool $TESTPOOL
56 }
57 #
58 log_assert "Ensure ZFS cannot use a device designated as a dump device"
59 #
60 log_onexit cleanup
61 #
62 typeset dumpdev=""
63 typeset diskslice=""
64 #
65 PREVDUMPDEV=`$DUMPADM | $GREP "Dump device" | $AWK '{print $3}'`
66 #
67 log_note "Zero $FS_DISK0 and place free space in to slice 0"
68 log_must cleanup_devices $FS_DISK0
69 #
70 if [[ $WRAPPER == *"smi"* ]]; then
71     diskslice="/dev/dsk/${FS_DISK0}s2"
72 else
73     diskslice="/dev/dsk/${FS_DISK0}s0"
74 fi
75 #
76 log_note "Configuring $diskslice as dump device"
77 log_must $DUMPADM -d $diskslice > /dev/null
78 #
79 log_note "Confirm that dump device has been setup"
80 dumpdev=`$DUMPADM | $GREP "Dump device" | $AWK '{print $3}'`
81 [[ -z "$dumpdev" ]] && log_untested "No dump device has been configured"
82 #
83 [[ "$dumpdev" != "$diskslice" ]] && \
84     log_untested "Dump device has not been configured to $diskslice"
85 #
86 log_note "Attempt to zpool the dump device"
87 log_mustnot $ZPOOL create $TESTPOOL "$diskslice"
88 log_mustnot poolexists $TESTPOOL
89 #
90 log_pass "Unable to zpool a device in use by dumpadm"
```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_002_pos.ksh

1

```
2985 Fri Nov 22 15:20:48 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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```

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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # ZFS will not interfere with devices that are in use by SVM
38 #
39 # STRATEGY:
40 # 1. Create SVM device d99 with a disk
41 # 2. Try to create a ZFS pool with same disk
42 # 3. Try a use the same disk as a spare device
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     poollexists $TESTPOOL1 && destroy_pool $TESTPOOL1
50 #
51     poollexists $TESTPOOL2 && destroy_pool $TESTPOOL2
52 #
53     $METASTAT d99 > /dev/null 2>&1
54     (( $? == 0 )) && $METACLEAR -f d99
```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_002_pos.ksh

2

```
56     typeset metadb=""
57     typeset i=""
58 #
59     metadb=`$METADB | $CUT -f6 | $GREP dev | $UNIQ`
60     for i in $metadb; do
61         $METADB -fd $i > /dev/null 2>&1
62     done
63 #
64 #
65 # Tidy up the disks we used.
66 #
67     cleanup_devices $vdisks $sdisks
68 }
69 #
70 log_assert "Ensure ZFS does not interfere with devices in use by SVM"
71 #
72 log_onexit cleanup
73 #
74 for num in 0 1 2; do
75     eval typeset slice=${FS_SIDE$num}
76     disk=${slice%*}
77     slice=${slice##*s}
78     if [[ $WRAPPER == *"smi"* && \
79         $disk == ${saved_disk} ]]; then
80         cyl=$(get_endslice $disk ${saved_slice})
81         log_must set_partition $slice "$cyl" $FS_SIZE $disk
82     else
83         log_must set_partition $slice "" $FS_SIZE $disk
84     fi
85     saved_disk=$disk
86     saved_slice=$slice
87 done
88 #
89 log_note "Configuring metadb with $FS_SIDE1"
90 log_must $METADB -a -f -c 3 $FS_SIDE1
91 #
92 log_note "Configure d99 with $FS_SIDE0"
93 log_must $METAINIT d99 1 1 $FS_SIDE0
94 #
95 log_note "Attempt to zpool the device in use by SVM"
96 log_mustnot $ZPOOL create $TESTPOOL1 $FS_SIDE0
97 log_mustnot poollexists $TESTPOOL1
98 #
99 log_note "Attempt to take device in use by SVM as spare device"
100 log_mustnot $ZPOOL create $TESTPOOL1 $FS_SIDE2 spare $FS_SIDE0
101 log_mustnot poollexists $TESTPOOL1
102 #
103 log_note "Attempt to zpool a metadb device in use by SVM"
104 log_mustnot $ZPOOL create $TESTPOOL2 $FS_SIDE1
105 log_mustnot poollexists $TESTPOOL2
106 #
107 log_note "Attempt to take device in use by SVM as spare device"
108 log_mustnot $ZPOOL create $TESTPOOL2 $FS_SIDE2 spare $FS_SIDE1
109 log_mustnot poollexists $TESTPOOL2
110 #
111 log_pass "Unable to zpool a device in use by SVM"
```

```

*****
5184 Fri Nov 22 15:20:49 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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34 #
35 #
36 . $STF_SUITE/include/libtest.shlib
37 . $STF_SUITE/tests/functional/inuse/inuse.cfg
38 #
39 #
40 # DESCRIPTION:
41 # ZFS will not interfere with devices that are in use by ufsdump or
42 # ufsrestore.
43 #
44 # STRATEGY:
45 # 1. newfs a disk
46 # 2. mount the disk
47 # 3. create files and dirs on disk
48 # 4. umount the disk
49 # 5. ufsdump this disk to a backup disk
50 # 6. Try to create a ZFS pool with same disk (also as a spare device)
51 # 7. ufsrestore the disk from backup
52 # 8. try to create a zpool during the ufsrestore
53 #

```

```

55 verify_runnable "global"
56 #
57 function cleanup
58 {
59     poolexists $TESTPOOL1 && destroy_pool $TESTPOOL1
60
61     poolexists $TESTPOOL2 && destroy_pool $TESTPOOL2
62
63     log_note "Kill off ufsdump process if still running"
64     $KILL -0 $PIDUFSDUMP > /dev/null 2>&1 && \
65         log_must $KILL -9 $PIDUFSDUMP > /dev/null 2>&1
66     #
67     # Note: It would appear that ufsdump spawns a number of processes
68     # which are not killed when the $PIDUFSDUMP is whacked. So best bet
69     # is to find the rest of the them and deal with them individually.
70     #
71     for all in `PGREP ufsdump`
72     do
73         $KILL -9 $all > /dev/null 2>&1
74     done
75
76     log_note "Kill off ufsrestore process if still running"
77     $KILL -0 $PIDUFSRESTORE > /dev/null 2>&1 && \
78         log_must $KILL -9 $PIDUFSRESTORE > /dev/null 2>&1
79
80     ismounted $UFSMP ufs && log_must $UMOUNT $UFSMP
81
82     $RM -rf $UFSMP
83     $RM -rf $TESTDIR
84
85     #
86     # Tidy up the disks we used.
87     #
88     log_must cleanup_devices $vdisks $sdisks
89 }
90 #
91 log_assert "Ensure ZFS does not interfere with devices that are in use by " \
92     "ufsdump or ufsrestore"
93 #
94 log_onexit cleanup
95 #
96 typeset bigdir="{UFSMP}/bigdirectory"
97 typeset restored_files="{UFSMP}/restored_files"
98 typeset -i dirnum=0
99 typeset -i filenum=0
100 typeset cwd=""
101 #
102 for num in 0 1 2; do
103     eval typeset slice=\${FS_SIDE$num}
104     disk=${slice%*}
105     slice=${slice##*}
106     if [[ $WRAPPER == *"smi"* && $disk == ${saved_disk} ]]; then
107         cyl=$(get_endslice $disk ${saved_slice})
108         log_must set_partition $slice "$cyl" $FS_SIZE $disk
109     else
110         log_must set_partition $slice "" $FS_SIZE $disk
111     fi
112     saved_disk=$disk
113     saved_slice=$slice
114 done
115 #
116 log_note "Make a ufs filesystem on source $rawdisk1"
117 $ECHO "y" | $NEWFS -v $rawdisk1 > /dev/null 2>&1
118 (( $? != 0 )) && log_untested "Unable to create ufs filesystem on $rawdisk1"
119 #
120 log_must $MKDIR -p $UFSMP

```

```
122 log_note "mount source $disk1 on $UFSMP"
123 log_must $MOUNT $disk1 $UFSMP

125 log_note "Now create some directories and files to be ufsdump'ed"
126 while (($dirnum <= 2)); do
127     log_must $MKDIR $bigdir${dirnum}
128     while (($filenum <= 2 )); do
129         $FILE_WRITE -o create -f $bigdir${dirnum}/file${filenum} \
130             -b $BLOCK_SIZE -c $BLOCK_COUNT
131         if [[ $? -ne 0 ]]; then
132             if [[ $dirnum -lt 3 ]]; then
133                 log_fail "$FILE_WRITE only wrote" \
134                     "<(( $dirnum * 3 + $filenum ))>" \
135                     "files, this is not enough"
136             fi
137         fi
138         ((filenum = filenum + 1))
139     done
140     filenum=0
141     ((dirnum = dirnum + 1))
142 done

144 log_must $UMOUNT $UFSMP

146 log_note "Start ufsdump in the background"
147 log_note "$UFSDUMP Obf 512 $rawdisk0 $disk1"
148 $UFSDUMP Obf 512 $rawdisk0 $disk1 &
149 PIDUFSDUMP=$!

151 log_note "Attempt to zpool the source device in use by ufsdump"
152 log_mustnot $ZPOOL create $TESTPOOL1 "$disk1"
153 log_mustnot poolexists $TESTPOOL1

155 log_note "Attempt to take the source device in use by ufsdump as spare device"
156 log_mustnot $ZPOOL create $TESTPOOL1 "$FS_SIDE2" spare "$disk1"
157 log_mustnot poolexists $TESTPOOL1

159 wait $PIDUFSDUMP
160 typeset -i retval=$?
161 (($retval != 0)) && log_fail "$UFSDUMP failed with error code $retval"

163 log_must $MOUNT $disk1 $UFSMP

165 log_must $RM -rf $UFSMP/*
166 log_must $MKDIR $restored_files

168 cwd=$PWD
169 log_must cd $restored_files
170 log_note "Start ufsrestore in the background from the target device"
171 log_note "$UFSRESTORE rbf 512 $rawdisk0"
172 $UFSRESTORE rbf 512 $rawdisk0 &
173 PIDUFSRESTORE=$!
174 log_must cd $cwd

176 log_note "Attempt to zpool the restored device in use by ufsrestore"
177 log_mustnot $ZPOOL create -f $TESTPOOL2 "$disk1"
178 log_mustnot poolexists $TESTPOOL2

180 log_note "Attempt to take the restored device in use by ufsrestore as spare" \
181     "device"
182 log_mustnot $ZPOOL create -f $TESTPOOL2 "$FS_SIDE2" spare "$disk1"
183 log_mustnot poolexists $TESTPOOL2

185 log_pass "Unable to zpool over a device in use by ufsdump or ufsrestore"
```

```

*****
2654 Fri Nov 22 15:20:49 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # format will disallow modification of a mounted zfs disk partition or a spare
38 # device
39 #
40 # STRATEGY:
41 # 1. Create a ZFS filesystem
42 # 2. Add a spare device to the ZFS pool
43 # 3. Attempt to format the disk and the spare device.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     #
51     # Essentially this is the default_cleanup routine but I cannot get it
52     # to work correctly. So its reproduced below. Still need to full
53     # understand why default_cleanup does not work correctly from here.
54     #

```

```

55     log_must $ZFS amount $TESTPOOL/$TESTFS
56 #
57     $RM -rf $TESTDIR || \
58         log_unresolved Could not remove $TESTDIR
59 #
60     log_must $ZFS destroy $TESTPOOL/$TESTFS
61     destroy_pool $TESTPOOL
62 }
63 #
64 # Currently, if a ZFS disk gets formatted things go horribly wrong, hence the
65 # mini_format function. If the modify option is reached, then we know format
66 # would happily continue - best to not go further.
67 #
68 function mini_format
69 {
70     typeset disk=$1
71 #
72     typeset format_file=/var/tmp/format_in.$$1
73     $ECHO "partition" > $format_file
74     $ECHO "modify" >> $format_file
75 #
76     $FORMAT -e -s -d $disk -f $format_file
77     typeset -i retval=?
78     $RM -rf $format_file
79     return $retval
80 }
81 #
82 log_assert "format will disallow modification of a mounted zfs disk partition"\
83 " or a spare device"
84 #
85 log_onexit cleanup
86 log_must default_setup_noexit $FS_DISK0
87 log_must $ZPOOL add $TESTPOOL spare $FS_DISK1
88 #
89 log_note "Attempt to format a ZFS disk"
90 log_mustnot mini_format $FS_DISK0
91 log_note "Attempt to format a ZFS spare device"
92 log_mustnot mini_format $FS_DISK1
93 #
94 log_pass "Unable to format a disk in use by ZFS"

```

```

*****
2859 Fri Nov 22 15:20:49 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # newfs will not interfere with devices and spare devices that are in use
38 # by active pool.
39 #
40 # STRATEGY:
41 # 1. Create a regular|mirror|raidz|raidz2 pool with the given disk
42 # 2. Try to newfs against the disk, verify it fails as expect.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     poolexists $TESTPOOL1 && destroy_pool $TESTPOOL1
50 #
51 #
52 # Tidy up the disks we used.
53 #
54 cleanup_devices $vdisks $sdisks

```

```

55 }
56 #
57 function verify_assertion #slices
58 {
59     typeset targets=$1
60 #
61     for t in $targets; do
62         $ECHO "y" | $NEWFS -v $t > /dev/null 2>&1
63         (( $? != 0 )) || \
64             log_fail "newfs over active pool " \
65                 "unexpected return code of 0"
66     done
67 #
68     return 0
69 }
70 #
71 log_assert "Verify newfs over active pool fails."
72 #
73 log_onexit cleanup
74 #
75 set -A vdevs " " "mirror" "raidz" "raidz1" "raidz2"
76 #
77 typeset -i i=0
78 #
79 while (( i < ${#vdevs[*]} )); do
80 #
81     for num in 0 1 2 3 ; do
82         eval typeset slice=${FS_SIDE$num}
83         disk=${slice%*}
84         slice=${slice##*s}
85         if [[ $WRAPPER == *smi* && \
86             $disk == ${saved_disk} ]]; then
87             cyl=$(get_endslice $disk ${saved_slice})
88             log_must set_partition $slice "$cyl" $FS_SIZE $disk
89         else
90             log_must set_partition $slice " " $FS_SIZE $disk
91         fi
92         saved_disk=$disk
93         saved_slice=$slice
94     done
95 #
96     if [[ -n $SINGLE_DISK && -n ${vdevs[i]} ]]; then
97         (( i = i + 1 ))
98         continue
99     fi
100 #
101     create_pool $TESTPOOL1 ${vdevs[i]} $vslices spare $sslices
102     verify_assertion "$rawtargets"
103     destroy_pool $TESTPOOL1
104 #
105     if [[ ( $FS_DISK0 == $FS_DISK2 ) && -n ${vdevs[i]} ]]; then
106         (( i = i + 1 ))
107         continue
108     fi
109 #
110     if [[ ( $FS_DISK0 == $FS_DISK3 ) && ( ${vdevs[i]} == "raidz2" ) ]]; then
111         (( i = i + 1 ))
112         continue
113     fi
114 #
115     create_pool $TESTPOOL1 ${vdevs[i]} $vdisks spare $sdisks
116     verify_assertion "$rawtargets"
117     destroy_pool $TESTPOOL1
118 #
119     (( i = i + 1 ))
120 done

```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_005_pos.ksh

3

```
122 log_pass "Newfs over active pool fails."
```

```

*****
2910 Fri Nov 22 15:20:50 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # dumpadm will not interfere with devices and spare devices that are in use
38 # by active pool.
39 #
40 # STRATEGY:
41 # 1. Create a regular|mirror|raidz|raidz2 pool with the given disk
42 # 2. Try to dumpadm against the disk, verify it fails as expect.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     if [[ -n $PREVDUMPDEV ]]; then
50         log_must $DUMPADM -u -d $PREVDUMPDEV
51     fi
52 #
53     poolexists $TESTPOOL1 && destroy_pool $TESTPOOL1

```

```

55 #
56 # Tidy up the disks we used.
57 #
58 cleanup_devices $vdisks $sdisks
59 }
60 #
61 function verify_assertion #slices
62 {
63     typeset targets=$1
64 #
65     for t in $targets; do
66         log_mustnot $DUMPADM -d $t
67     done
68 #
69     return 0
70 }
71 #
72 log_assert "Verify dumpadm over active pool fails."
73 #
74 log_onexit cleanup
75 #
76 set -A vdevs "" "mirror" "raidz" "raidz1" "raidz2"
77 #
78 typeset -i i=0
79 #
80 PREVDUMPDEV=$DUMPADM | $GREP "Dump device" | $AWK '{print $3}'
81 #
82 while (( i < ${#vdevs[*]} )); do
83 #
84     for num in 0 1 2 3 ; do
85         eval typeset slice=${FS_SIDE$num}
86         disk=${slice%*s}
87         slice=${slice##*s}
88         if [[ $WRAPPER == "smi" && \
89             $disk == ${saved_disk} ]]; then
90             cyl=$(get_endslice $disk ${saved_slice})
91             log_must set_partition $slice "$cyl" $FS_SIZE $disk
92         else
93             log_must set_partition $slice "" $FS_SIZE $disk
94         fi
95         saved_disk=$disk
96         saved_slice=$slice
97     done
98 #
99     if [[ -n $SINGLE_DISK && -n ${vdevs[i]} ]]; then
100         (( i = i + 1 ))
101         continue
102     fi
103 #
104     create_pool $TESTPOOL1 ${vdevs[i]} $vslices spare $sslices
105     verify_assertion "$disktargets"
106     destroy_pool $TESTPOOL1
107 #
108     if [[ ( $FS_DISK0 == $FS_DISK2 ) && -n ${vdevs[i]} ]]; then
109         (( i = i + 1 ))
110         continue
111     fi
112 #
113     if [[ ( $FS_DISK0 == $FS_DISK3 ) && ( ${vdevs[i]} == "raidz2" ) ]]; then
114         (( i = i + 1 ))
115         continue
116     fi
117 #
118     create_pool $TESTPOOL1 ${vdevs[i]} $vdisks spare $sdisks
119     verify_assertion "$disktargets"
120     destroy_pool $TESTPOOL1

```


new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_006_pos.ksh

3

```
122         (( i = i + 1 ))
```

```
123 done
```

```
125 log_pass "Dumpadm over active pool fails."
```

```

*****
3181 Fri Nov 22 15:20:50 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # dumpadm will interfere with devices and spare devices that are in use
38 # by exported pool.
39 #
40 # STRATEGY:
41 # 1. Create a regular|mirror|raidz|raidz2 pool with the given disk
42 # 2. Export the pool
43 # 3. Try to dumpadm against the disk, verify it succeeds as expect.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     if [[ -n $PREVDUMPDEV ]]; then
51         log_must $DUMPADM -u -d $PREVDUMPDEV
52     fi
53 }
54 poolexists $TESTPOOL1 || $ZPOOL import $TESTPOOL1 >/dev/null 2>&1

```

```

56     poolexists $TESTPOOL1 && destroy_pool $TESTPOOL1
57 #
58 #
59 # Tidy up the disks we used.
60 #
61 cleanup_devices $vdisks $sdisks
62 }
63 #
64 function verify_assertion #slices
65 {
66     typeset targets=$1
67 #
68     for t in $targets; do
69         log_must $DUMPADM -u -d $t
70 #
71         log_must $DUMPADM -u -d $PREVDUMPDEV
72     done
73 #
74     return 0
75 }
76 #
77 log_assert "Verify dumpadm over exported pool succeed."
78 #
79 log_onexit cleanup
80 #
81 set -A vdevs " " "mirror" "raidz" "raidz1" "raidz2"
82 #
83 typeset -i i=0
84 #
85 PREVDUMPDEV=$DUMPADM | $GREP "Dump device" | $AWK '{print $3}'
86 #
87 while (( i < ${#vdevs[*]} )); do
88 #
89     for num in 0 1 2 3 ; do
90         eval typeset slice=${FS_SIDE$num}
91         disk=${slice%*}
92         slice=${slice##*s}
93         if [[ $WRAPPER == *"smi"* && \
94             $disk == ${saved_disk} ]]; then
95             cyl=$(get_endslice $disk ${saved_slice})
96             log_must set_partition $slice "$cyl" $FS_SIZE $disk
97         else
98             log_must set_partition $slice "" $FS_SIZE $disk
99         fi
100         saved_disk=$disk
101         saved_slice=$slice
102     done
103 #
104     if [[ -n $SINGLE_DISK && -n ${vdevs[i]} ]]; then
105         (( i = i + 1 ))
106         continue
107     fi
108 #
109     create_pool $TESTPOOL1 ${vdevs[i]} $vslices spare $sslices
110     log_must $ZPOOL export $TESTPOOL1
111     verify_assertion "$disktargets"
112     log_must $ZPOOL import $TESTPOOL1
113     destroy_pool $TESTPOOL1
114 #
115     if [[ ( $FS_DISK0 == $FS_DISK2 ) && -n ${vdevs[i]} ]]; then
116         (( i = i + 1 ))
117         continue
118     fi
119 #
120     if [[ ( $FS_DISK0 == $FS_DISK3 ) && ( ${vdevs[i]} == "raidz2" ) ]]; then

```

```
121             (( i = i + 1 ))
122             continue
123         fi

125         create_pool $TESTPOOL1 ${vdevs[i]} $vdisks spare $sdisks
126         log_must $ZPOOL export $TESTPOOL1
127         verify_assertion "$disktargets"
128         log_must $ZPOOL import $TESTPOOL1
129         destroy_pool $TESTPOOL1

131     (( i = i + 1 ))
132 done

134 log_pass "Dumpadm over exported pool succeed."
```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_008_pos.ksh

1

```
*****
2662 Fri Nov 22 15:20:50 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Newfs will interfere with devices and spare devices that are in use
38 # by exported pool.
39 #
40 # STRATEGY:
41 # 1. Create a regular|mirror|raidz|raidz2 pool with the given disk
42 # 2. Export the pool
43 # 3. Try to newfs against the disk, verify it succeeds as expect.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     poolexists $TESTPOOL1 || $ZPOOL import $TESTPOOL1 >/dev/null 2>&1
51 #
52     poolexists $TESTPOOL1 && destroy_pool $TESTPOOL1
53 #
54 #
```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_008_pos.ksh

2

```
55 # Tidy up the disks we used.
56 #
57 cleanup_devices $vdisks $sdisk
58 }
59 #
60 function verify_assertion #slices
61 {
62     typeset targets=$1
63 #
64     for t in $targets; do
65         $ECHO "y" | $NEWFS -v $t > /dev/null 2>&1
66         (( $? != 0 )) && \
67             log_fail "newfs over exported pool " \
68                 "failes unexpected."
69     done
70 #
71     return 0
72 }
73 #
74 log_assert "Verify newfs over exported pool succeed."
75 #
76 log_onexit cleanup
77 #
78 set -A vdevs "" "mirror" "raidz" "raidz1" "raidz2"
79 #
80 typeset -i i=0
81 #
82 for num in 0 1 2 3 ; do
83     eval typeset slice=${FS_SIDE$num}
84     disk=${slice%*}
85     slice=${slice##*s}
86     if [[ $WRAPPER == *"smi"* && \
87         $disk == ${saved_disk} ]]; then
88         cyl=$(get_endslice $disk ${saved_slice})
89         log_must set_partition $slice "$cyl" $FS_SIZE $disk
90     else
91         log_must set_partition $slice "" $FS_SIZE $disk
92     fi
93     saved_disk=$disk
94     saved_slice=$slice
95 done
96 #
97 while (( i < ${#vdevs[*]} )); do
98     if [[ -n $SINGLE_DISK && -n ${vdevs[i]} ]]; then
99         (( i = i + 1 ))
100         continue
101     fi
102 #
103     create_pool $TESTPOOL1 ${vdevs[i]} $vslices spare $sslices
104     log_must $ZPOOL export $TESTPOOL1
105     verify_assertion "$rawtargets"
106     cleanup_devices $vslices $sslices
107 #
108     (( i = i + 1 ))
109 done
110 #
111 log_pass "Newfs over exported pool succeed."
```

```

*****
2896 Fri Nov 22 15:20:51 2013
new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/inuse/inuse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # format command will interfere with devices and spare devices that are in use
38 # by exported pool.
39 #
40 # STRATEGY:
41 # 1. Create a regular|mirror|raidz|raidz2 pool with the given disk
42 # 2. Export the pool
43 # 3. Try to format against the disk, verify it succeeds as expect.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     poolexists $TESTPOOL1 || $ZPOOL import $TESTPOOL1 >/dev/null 2>&1
51 #
52     poolexists $TESTPOOL1 && destroy_pool $TESTPOOL1
53 #
54 #

```

```

55     # Tidy up the disks we used.
56     #
57     cleanup_devices $vdisks $sdisks
58 }
59 #
60 function verify_assertion #disks
61 {
62     typeset targets=$1
63 #
64     for t in $targets; do
65         log_must set_partition 0 "" 0mb $t
66     done
67 #
68     return 0
69 }
70 #
71 log_assert "Verify format over exported pool succeed."
72 #
73 log_onexit cleanup
74 #
75 set -A vdevs "" "mirror" "raidz" "raidz1" "raidz2"
76 #
77 typeset -i i=0
78 #
79 while (( i < ${#vdevs[*]} )); do
80 #
81     for num in 0 1 2 3 ; do
82         eval typeset slice=${FS_SIDE$num}
83         disk=${slice%*}
84         slice=${slice##*s}
85         if [[ $WRAPPER == *smi* && \
86             $disk == ${saved_disk} ]]; then
87             cyl=$(get_endslice $disk ${saved_slice})
88             log_must set_partition $slice "$cyl" $FS_SIZE $disk
89         else
90             log_must set_partition $slice "" $FS_SIZE $disk
91         fi
92         saved_disk=$disk
93         saved_slice=$slice
94     done
95 #
96     if [[ -n $SINGLE_DISK && -n ${vdevs[i]} ]]; then
97         (( i = i + 1 ))
98         continue
99     fi
100 #
101     create_pool $TESTPOOL1 ${vdevs[i]} $vslices spare $sslices
102     log_must $ZPOOL export $TESTPOOL1
103     verify_assertion "$vdisks $sdisks"
104 #
105     if [[ ( $FS_DISK0 == $FS_DISK2 ) && -n ${vdevs[i]} ]]; then
106         (( i = i + 1 ))
107         continue
108     fi
109 #
110     if [[ ( $FS_DISK0 == $FS_DISK3 ) && ( ${vdevs[i]} == "raidz2" ) ]]; then
111         (( i = i + 1 ))
112         continue
113     fi
114 #
115     create_pool $TESTPOOL1 ${vdevs[i]} $vdisks spare $sdisks
116     log_must $ZPOOL export $TESTPOOL1
117     verify_assertion "$vdisks $sdisks"
118 #
119     (( i = i + 1 ))
120 done

```

new/usr/src/test/zfs-tests/tests/functional/inuse/inuse_009_pos.ksh

3

```
122 log_pass "Format over exported pool succeed."
```

new/usr/src/test/zfs-tests/tests/functional/inuse/setup.ksh

1

1050 Fri Nov 22 15:20:51 2013

new/usr/src/test/zfs-tests/tests/functional/inuse/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/large_files/Makefile

1

845 Fri Nov 22 15:20:51 2013

new/usr/src/test/zfs-tests/tests/functional/large_files/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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```

```
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/large_files
```

```
21 PROGS = cleanup \
22         large_files_001_pos \
23         setup
```

```
25 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
26 $(CMDS) := FILEMODE = 0555
```

```
28 all lint clean clobber:
```

```
30 install: $(CMDS)
```

```
32 $(CMDS): $(TESTDIR)
```

```
34 $(TESTDIR):
```

```
35     $(INS.dir)
```

```
37 $(TESTDIR)/%: %.ksh
```

```
38     $(INS.rename)
```

```
40 $(TESTDIR)/%: %
```

```
41     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/large_files/cleanup.ksh

1

1031 Fri Nov 22 15:20:52 2013

new/usr/src/test/zfs-tests/tests/functional/large_files/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/large_files/large_files_001_pos.ksh 1

1572 Fri Nov 22 15:20:52 2013

new/usr/src/test/zfs-tests/tests/functional/large_files/large_files_001_pos.ksh

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Write a file to the allowable ZFS fs size.
37 #
38 # STRATEGY:
39 # 1. largest_file will write to a file and increase its size
40 # to the maximum allowable.
41 # 2. The last byte of the file should be accessbile without error.
42 # 3. Writing beyond the maximum file size generates an 'errno' of
43 # EFBIG.
44 #
45 #
46 verify_runnable "both"
47 #
48 log_assert "Write a file to the allowable ZFS fs size."
49 #
50 log_note "Invoke 'largest_file' with $TESTDIR/bigfile"
51 log_must $LARGEST_FILE $TESTDIR/bigfile
52 #
53 log_pass "Successfully created a file to the maximum allowable size."
```

new/usr/src/test/zfs-tests/tests/functional/large_files/setup.ksh

1

1054 Fri Nov 22 15:20:52 2013

new/usr/src/test/zfs-tests/tests/functional/large_files/setup.ksh
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 disk=${DISKS%% *}
35 #
36 default_setup $disk
```

new/usr/src/test/zfs-tests/tests/functional/largest_pool/Makefile

1

877 Fri Nov 22 15:20:53 2013

new/usr/src/test/zfs-tests/tests/functional/largest_pool/Makefile
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14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/largest_pool
20 #
21 PROGS = largest_pool_001_pos
22 #
23 FILES = largest_pool.cfg
24 #
25 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
26 $(CMDS) := FILEMODE = 0555
27 #
28 all lint clean clobber:
29 #
30 install: $(CMDS)
31 #
32 $(CMDS): $(TESTDIR)
33 #
34 $(TESTDIR):
35     $(INS.dir)
36 #
37 $(TESTDIR)/%: %.ksh
38     $(INS.rename)
39 #
40 $(TESTDIR)/%: %
41     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/largest_pool/largest_pool.cfg

1

1495 Fri Nov 22 15:20:53 2013

new/usr/src/test/zfs-tests/tests/functional/largest_pool/largest_pool.cfg

4206 history_003_pos relies on exact size of history log and entries

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4209 Populate zfstest with the remainder of the STF tests

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26 #
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29 #
30 #
31 export TESTVOL=testvol$$
32 export VOL_PATH=/dev/zvol/dsk/${TESTPOOL2}/${TESTVOL}
33 export VOLSIZES=${VOLSIZES-"2pb 5pb 10pb 2eb 5eb 8eb 9eb"}
34 #
35 # There're 3 different prompt messages while create
36 # a volume that great than 1TB on 32-bit
37 # - volume size exceeds limit for this system. (happy gate)
38 # - max volume size is 1TB on 32-bit systems (s10u2)
39 # - value is too large (old)
40 #
41 export VOL_LIMIT_KEYWORD1="1TB on 32-bit"
42 export VOL_LIMIT_KEYWORD2="value is too large"
43 export VOL_LIMIT_KEYWORD3="volume size exceeds limit"
```

new/usr/src/test/zfs-tests/tests/functional/largest_pool/largest_pool_001_pos.ks 1

4507 Fri Nov 22 15:20:53 2013

new/usr/src/test/zfs-tests/tests/functional/largest_pool/largest_pool_001_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
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4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/largest_pool/largest_pool.cfg
34 #
35 # DESCRIPTION:
36 #   The largest pool can be created and a dataset in that
37 #   pool can be created and mounted.
38 #
39 # STRATEGY:
40 #   create a pool which will contain a volume device.
41 #   create a volume device of desired sizes.
42 #   create the largest pool allowed using the volume vdev.
43 #   create and mount a dataset in the largest pool.
44 #   create some files in the zfs file system.
45 #   do some zpool list commands and parse the output.
46 #
47 verify_runnable "global"
48 #
49 #
50 # Parse the results of zpool & zfs creation with specified size
51 #
52 # $1: volume size
53 #
```

new/usr/src/test/zfs-tests/tests/functional/largest_pool/largest_pool_001_pos.ks 2

```
54 # return value:
55 # 0 -> success
56 # 1 -> failure
57 #
58 function parse_expected_output
59 {
60     UNITS=`ECHO $1 | $SED -e 's/^\([0-9]*\)\{[a-z]\}/2/'`
61     case "$UNITS" in
62         'mb') CHKUNIT="M" ;;
63         'gb') CHKUNIT="G" ;;
64         'tb') CHKUNIT="T" ;;
65         'pb') CHKUNIT="P" ;;
66         'eb') CHKUNIT="E" ;;
67         *) CHKUNIT="M" ;;
68     esac
69 #
70     log_note "Detect zpool $TESTPOOL in this test machine."
71     log_must eval "$ZPOOL list $TESTPOOL > /tmp/j.$$"
72     log_must eval "$GREP $TESTPOOL /tmp/j.$$ | \
73         $AWK '{print $2}' | $GREP $CHKUNIT"
74 #
75     log_note "Detect the file system in this test machine."
76     log_must eval "$DF -F zfs -h > /tmp/j.$$"
77     log_must eval "$GREP $TESTPOOL /tmp/j.$$ | \
78         $AWK '{print $2}' | $GREP $CHKUNIT"
79 #
80     return 0
81 }
82 #
83 #
84 # Check and destroy zfs, volume & zpool remove the temporary files
85 #
86 function cleanup
87 {
88     log_note "Start cleanup the zfs and pool"
89 #
90     if datasetexists $TESTPOOL/$TESTFS ; then
91         if ismounted $TESTPOOL/$TESTFS ; then
92             log_must $ZFS unmount $TESTPOOL/$TESTFS
93         fi
94         log_must $ZFS destroy $TESTPOOL/$TESTFS
95     fi
96 #
97     destroy_pool $TESTPOOL
98 #
99     datasetexists $TESTPOOL2/$TESTVOL && \
100         log_must $ZFS destroy $TESTPOOL2/$TESTVOL
101 #
102     destroy_pool $TESTPOOL2
103 #
104     $RM -f /tmp/j.* > /dev/null
105 }
106 #
107 log_assert "The largest pool can be created and a dataset in that" \
108     "pool can be created and mounted."
109 #
110 # Set trigger. When the test case exit, cleanup is executed.
111 log_onexit cleanup
112 #
113 # -----
114 # volume sizes with unit designations.
115 #
116 # Note: specifying the number '1' as size will not give the correct
117 # units for 'df'. It must be greater than one.
118 # -----
119 typeset str
```

```
120 typeset -i ret
121 for volsize in $VOLSIZE; do
122     log_note "Create a pool which will contain a volume device"
123     create_pool $TESTPOOL2 "$DISKS"
124
125     log_note "Create a volume device of desired sizes: $volsize"
126     str=$(ZFS create -sv $volsize $TESTPOOL2/$TESTVOL 2>&1)
127     ret=$?
128     if (( ret != 0 )); then
129         if [[ $(ISAINFO -b) == 32 && \
130             $str == *${VOL_LIMIT_KEYWORD1}* || \
131             $str == *${VOL_LIMIT_KEYWORD2}* || \
132             $str == *${VOL_LIMIT_KEYWORD3}* ]]; then
133             then
134                 log_unsupported \
135                     "Max volume size is 1TB on 32-bit systems."
136             else
137                 log_fail "$ZFS create -sv $volsize $TESTPOOL2/$TESTVOL"
138             fi
139         fi
140
141     log_note "Create the largest pool allowed using the volume vdev"
142     create_pool $TESTPOOL "$VOL_PATH"
143
144     log_note "Create a zfs file system in the largest pool"
145     log_must $ZFS create $TESTPOOL/$TESTFS
146
147     log_note "Parse the execution result"
148     parse_expected_output $volsize
149
150     log_note "unmount this zfs file system $TESTPOOL/$TESTFS"
151     log_must $ZFS unmount $TESTPOOL/$TESTFS
152
153     log_note "Destroy zfs, volume & zpool"
154     log_must $ZFS destroy $TESTPOOL/$TESTFS
155     destroy_pool $TESTPOOL
156     log_must $ZFS destroy $TESTPOOL2/$TESTVOL
157     destroy_pool $TESTPOOL2
158 done
159
160 log_pass "Dataset can be created, mounted & destroy in largest pool succeeded."
```

new/usr/src/test/zfs-tests/tests/functional/link_count/Makefile

1

839 Fri Nov 22 15:20:53 2013

new/usr/src/test/zfs-tests/tests/functional/link_count/Makefile

4206 history_003_pos relies on exact size of history log and entries

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/link_count
```

```
21 PROGS = cleanup \
22         link_count_001 \
23         setup
```

```
25 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
26 $(CMDS) := FILEMODE = 0555
```

```
28 all lint clean clobber:
```

```
30 install: $(CMDS)
```

```
32 $(CMDS): $(TESTDIR)
```

```
34 $(TESTDIR):
```

```
35     $(INS.dir)
```

```
37 $(TESTDIR)/%: %.ksh
```

```
38     $(INS.rename)
```

```
40 $(TESTDIR)/%: %
```

```
41     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/link_count/cleanup.ksh

1

1031 Fri Nov 22 15:20:54 2013

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/link_count/link_count_001.ksh

1

```
*****
2298 Fri Nov 22 15:20:54 2013
new/usr/src/test/zfs-tests/tests/functional/link_count/link_count_001.ksh
4206 history_003_pos relies on exact size of history log and entries
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Verify file link count is zero on zfs
37 #
38 # STRATEGY:
39 # 1. Make sure this test executes on multi-processes system
40 # 2. Make zero size files and remove them in the background
41 # 3. Call the binary
42 # 4. Make sure the files can be removed successfully
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "Verify file link count is zero on zfs"
48 #
49 export ITERS=10
50 export NUMFILES=10000
51 #
52 # Detect and make sure this test must be executed on a multi-process system
53 is_mp || log_fail "This test requires a multi-processor system."
```

new/usr/src/test/zfs-tests/tests/functional/link_count/link_count_001.ksh

2

```
55 log_must $MKDIR -p ${TESTDIR}/tmp
56 #
57 typeset -i i=0
58 while [ $i -lt $NUMFILES ]; do
59     (( i = i + 1 ))
60     $TOUCH ${TESTDIR}/tmp/x$i > /dev/null 2>&1
61 done
62 #
63 sleep 3
64 #
65 $RM -f ${TESTDIR}/tmp/x* >/dev/null 2>&1
66 #
67 $RM_LNKCNT_ZERO_FILE ${TESTDIR}/tmp/test$$ > /dev/null 2>&1 &
68 PID=$!
69 log_note "$RM_LNKCNT_ZERO_FILE ${TESTDIR}/tmp/test$$ pid: $PID"
70 #
71 i=0
72 while [ $i -lt $ITERS ]; do
73     if ! $PGREP $RM_LNKCNT_ZERO_FILE > /dev/null ; then
74         log_note "$RM_LNKCNT_ZERO_FILE completes"
75         break
76     fi
77     log_must $SLEEP 10
78     (( i = i + 1 ))
79 done
80 #
81 if $PGREP $RM_LNKCNT_ZERO_FILE > /dev/null; then
82     log_must $KILL -TERM $PID
83     log_fail "file link count is zero"
84 fi
85 #
86 log_must $KILL -TERM $PID
87 log_must $RM -f ${TESTDIR}/tmp/test$$*
88 #
89 log_pass "Verify file link count is zero on zfs"
```

new/usr/src/test/zfs-tests/tests/functional/link_count/setup.ksh

1

1054 Fri Nov 22 15:20:54 2013

new/usr/src/test/zfs-tests/tests/functional/link_count/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/mdb/Makefile

1

830 Fri Nov 22 15:20:55 2013

new/usr/src/test/zfs-tests/tests/functional/mdb/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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10 #
```

```
12 #
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/mdb
```

```
21 PROGS = cleanup \
22         mdb_001_pos \
23         setup
```

```
26 CMDS = $(PROGS:%=$(TESTDIR)/%)
27 $(CMDS) := FILEMODE = 0555
```

```
29 all lint clean clobber:
```

```
31 install: $(CMDS)
```

```
33 $(CMDS): $(TESTDIR)
```

```
35 $(TESTDIR):
36     $(INS.dir)
```

```
38 $(TESTDIR)/%: %.ksh
39     $(INS.rename)
```

```
41 $(TESTDIR)/%: %
42     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/mdb/cleanup.ksh

1

1056 Fri Nov 22 15:20:55 2013

new/usr/src/test/zfs-tests/tests/functional/mdb/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/mdb/mdb_001_pos.ksh

1

```
*****
2979 Fri Nov 22 15:20:55 2013
new/usr/src/test/zfs-tests/tests/functional/mdb/mdb_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify that the ZFS mdb dcmds and walkers are working as expected.
37 #
38 # STRATEGY:
39 #     1) Given a list of dcmds and walkers
40 #     2) Step through each element of the list
41 #     3) Verify the output by checking for "mdb:" in the output string
42 #
43 #
44 function cleanup
45 {
46     $RM -f $OUTFILE
47 }
48 #
49 verify_runnable "global"
50 log_onexit cleanup
51 #
52 OUTFILE='/var/tmp/mdb-outfile'
53 set -A dcmds "::$walk spa" \
54     "::$walk spa | ::spa " \
```

new/usr/src/test/zfs-tests/tests/functional/mdb/mdb_001_pos.ksh

2

```
55     "::$walk spa | ::spa -c" \
56     "::$walk spa | ::spa -v" \
57     "::$walk spa | ::spa_config" \
58     "::$walk spa | ::spa_space" \
59     "::$walk spa | ::spa_space -b" \
60     "::$walk spa | ::spa_vdevs" \
61     "::$walk spa | ::walk metaslab" \
62     "::$walk spa | ::print struct spa spa_root_vdev | ::vdev" \
63     "::$walk spa | ::print struct spa spa_root_vdev | ::vdev -re" \
64     "::$dbufs" \
65     "::$dbufs -n mos -o mdn -l 0 -b 0" \
66     "::$dbufs | ::dbuf" \
67     "::$dbuf_stats" \
68     "::$abuf_find 1 2" \
69     "::$walk spa | ::print -a struct spa spa_uberblock.ub_rootbp | ::blkptr"
70     "::$walk spa | ::print -a struct spa spa_dsl_pool->dp_dirty_datasets | ::
71     "::$walk spa | ::walk zms_freelist"
72 #
73 # The commands above were supplied by the ZFS development team. The idea is to
74 # do as much checking as possible without the need to hardcode addresses.
75 #
76 #
77 log_assert "Verify that the ZFS mdb dcmds and walkers are working as expected."
78 #
79 typeset -i RET=0
80 #
81 i=0
82 while (( $i < ${#dcmds[*]} )); do
83     log_note "Verifying: '${dcmds[i]}'"
84     $ECHO "${dcmds[i]}" | $MDB -k > $OUTFILE 2>&1
85     RET=$?
86     if (( $RET != 0 )); then
87         log_fail "mdb '${dcmds[i]}' returned error $RET"
88     fi
89 #
90 #
91 # mdb prefixes all errors with "mdb: " so we check the output.
92 #
93 $GREP "mdb:" $OUTFILE > /dev/null 2>&1
94 RET=$?
95 if (( $RET == 0 )); then
96     $ECHO "mdb '${dcmds[i]}' contained 'mdb:'"
97     # Using $TAIL limits the number of lines in the log
98     $TAIL -100 $OUTFILE
99     log_fail "mdb walker or dcmd failed"
100 fi
101 #
102 ((i = i + 1))
103 done
104 #
105 log_pass "The ZFS mdb dcmds and walkers are working as expected."
```

new/usr/src/test/zfs-tests/tests/functional/mdb/setup.ksh

1

1082 Fri Nov 22 15:20:56 2013

new/usr/src/test/zfs-tests/tests/functional/mdb/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 DISK=${DISKS%% *}
37 #
38 default_setup "$DISK"
```

```
*****
```

```
1139 Fri Nov 22 15:20:56 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/migration/Makefile
```

```
4206 history_003_pos relies on exact size of history log and entries
```

```
4207 history_008_pos depends on obsolete internal history log message
```

```
4208 Typo in zfs_main.c: "posxiuser"
```

```
4209 Populate zfstest with the remainder of the STF tests
```

```
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
```

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Reviewed by: Will Guyette <will.guyette@delphix.com>
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```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/migration
```

```
21 PROGS = cleanup \
22 migration_001_pos \
23 migration_002_pos \
24 migration_003_pos \
25 migration_004_pos \
26 migration_005_pos \
27 migration_006_pos \
28 migration_007_pos \
29 migration_008_pos \
30 migration_009_pos \
31 migration_010_pos \
32 migration_011_pos \
33 migration_012_pos \
34 setup
```

```
36 FILES = migration.cfg \
37 migration.kshlib
```

```
39 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
40 $(CMDS) := FILEMODE = 0555
```

```
42 all lint clean clobber:
```

```
44 install: $(CMDS)
```

```
46 $(CMDS): $(TESTDIR)
```

```
48 $(TESTDIR):
49 $(INS.dir)
```

```
51 $(TESTDIR)/%: %.ksh
52 $(INS.rename)
```

```
54 $(TESTDIR)/%: %
```

```
55 $(INS.file)
```

1545 Fri Nov 22 15:20:56 2013

new/usr/src/test/zfs-tests/tests/functional/migration/cleanup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.cfg
34 #
35 verify_runnable "global"
36 #
37 ismounted $NONZFS_TESTDIR ufs
38 (( $? == 0 )) && log_must $MOUNT -f $NONZFS_TESTDIR
39 #
40 ismounted $TESTPOOL/$TESTFS
41 [[ $? == 0 ]] && log_must $ZFS umount -f $TESTDIR
42 destroy_pool $TESTPOOL
43 #
44 # recreate and destroy a zpool over the disks to restore the partitions to
45 # normal
46 case $DISK_COUNT in
47 0)
48     log_note "No disk devices to restore"
49     ;;
50 1)
51     log_must cleanup_devices $ZFS_DISK
52     ;;
53 *)
54     log_must cleanup_devices $ZFS_DISK $NONZFS_DISK
```

```
55     ;;
56 esac
57 #
58 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration.cfg

1

```
1855 Fri Nov 22 15:20:57 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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*****
```

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30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 set -A disk_array $(find_disks $DISKS)
34 case "${#disk_array[*]}" in
35 0)
36     DISK_COUNT=0
37     ;;
38 1)
39     # We need to repartition the single disk to two slices.
40     DISK_COUNT=1
41     ZFS_DISK=${disk_array[0]}
42     SINGLE_DISK=$ZFS_DISK
43     NONZFS_DISK=$ZFS_DISK
44     ZFSSIDE_DISK=${SINGLE_DISK}s0
45     NONZFSSIDE_DISK=${SINGLE_DISK}s1
46     ;;
47 *)
48     # In this case there are at least enough disks to use.
49     DISK_COUNT=2
50     ZFS_DISK=${disk_array[0]}
51     NONZFS_DISK=${disk_array[1]}
52     ZFSSIDE_DISK=${ZFS_DISK}s0
53     NONZFSSIDE_DISK=${NONZFS_DISK}s0
54     ;;
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration.cfg

2

```
55 esac
57 export DISK_COUNT ZFS_DISK NONZFS_DISK SINGLE_DISK ZFSSIDE_DISK NONZFSSIDE_DISK
58 #
59 export TESTFILE=/etc/passwd
60 export NONZFS_TESTDIR=$TESTDIR/nonzfstestdir
61 tmp=`$SUM $TESTFILE`
62 export SUMA=`$ECHO $tmp | $AWK '{print $1}'`
63 export SUMB=`$ECHO $tmp | $AWK '{print $2}'`
64 export FS_SIZE=1g
65 export BNAME=`$BASENAME $TESTFILE`
66 export DNAME=`$DIRNAME $TESTFILE`
```

```

*****
3302 Fri Nov 22 15:20:57 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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29 #
30 #
31 . $STF_SUITE/tests/functional/migration/migration.cfg
32 #
33 #
34 # This function creates the test archive for migration.
35 #
36 # Usage:
37 # prepare srcdir cmd
38 #
39 # Return value: 0 on success
40 #               1 on failure
41 #
42 # Where:
43 #   srcdir: is the directory where the testfile is
44 #   cmd:   is the command to be executed.
45 #         E.g.
46 #         $TAR cf $TESTDIR/tar$$tar
47 #
48 function prepare #srcdir cmd
49 {
50     typeset srcdir=$1
51     typeset cmd=$2
52     typeset -i retval=0
53
54     cwd=$PWD

```

```

55     cd $srcdir
56     (( $? != 0 )) && return 1
57
58     $cmd
59     (( $? != 0 )) && return 1
60
61     cd $cwd
62     (( $? != 0 )) && return 1
63
64     return 0
65 }
66 #
67 #
68 # This function executes a passed in command and then determines the chksum
69 # of the resulting file. The chksum components are checked against the ones
70 # passed in to determine if they are equal. If they are equal, 0 is returned
71 # otherwise 1 is returned.
72 #
73 # Usage:
74 # migrate destdir oldsuma oldsumb command_to_execute
75 #
76 # Return value: 0 on success
77 #               1 on failure
78 #
79 # Where:
80 #   destdir: is the directory where the command is to be executed on
81 #   oldsuma: is the first part of the values returned by sum
82 #   oldsumb: is the second part of the values returned by sum
83 #   cmd:    is the command to be executed;
84 #         E.g.
85 #         "$TAR xf $TESTDIR/tar$$tar"
86 #
87 function migrate #destdir oldsuma oldsumb cmd
88 {
89     typeset destdir=$1
90     typeset oldsuma=$2
91     typeset oldsumb=$3
92     typeset cmd=$4
93     typeset -i retval=0
94
95     cwd=$PWD
96     cd $destdir
97     (( $? != 0 )) && return 1
98
99     $cmd
100    (( $? != 0 )) && return 1
101
102    sumy=`$SUM ./$BNAME`
103    suma=`$ECHO $sumy | $AWK '{print $1}'`
104    sumb=`$ECHO $sumy | $AWK '{print $2}'`
105
106    if (( $oldsuma != $suma )); then
107        log_note "$SUM values are not the same"
108        retval=1
109    fi
110
111    if (( $oldsumb != $sumb )); then
112        log_note "$SUM values are not the same"
113        retval=1
114    fi
115
116    cd $cwd
117    (( $? != 0 )) && return 1
118    return $retval
119 }

```

```
121 function migrate_cpio
122 {
123     typeset destdir=$1
124     typeset archive=$2
125     typeset oldsuma=$3
126     typeset oldsumb=$4
127     typeset -i retval=0
128
129     cwd=$PWD
130     cd $destdir
131     (( $? != 0 )) && return 1
132
133     $CPIO -iv < $archive
134     (( $? != 0 )) && return 1
135
136     sumy=`$SUM ./$BNAME`
137     suma=`$ECHO $sumy | $AWK '{print $1}'`
138     sumb=`$ECHO $sumy | $AWK '{print $2}'`
139
140     if (( $oldsuma != $suma )); then
141         log_note "$SUM values are not the same"
142         retval=1
143     fi
144
145     if (( $oldsumb != $sumb )); then
146         log_note "$SUM values are not the same"
147         retval=1
148     fi
149
150     cd $cwd
151     (( $? != 0 )) && return 1
152     return $retval
153 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_001_pos.ksh 1

```
*****
1884 Fri Nov 22 15:20:57 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to ZFS fs using tar.
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Tar up test file and place on a ZFS filesystem
42 # 3. Extract tar contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/tar$.tar
52     $RM -rf $TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_001_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to ZFS fs using tar"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$STAR cf $TESTDIR/tar$.tar $BNAME"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $TESTDIR $SUMA $SUMB "$STAR xf $TESTDIR/tar$.tar"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "ZFS fs to ZFS fs"
65 #
66 log_pass "Successfully migrated test file from ZFS fs to ZFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_002_pos.ksh 1

```
*****
1898 Fri Nov 22 15:20:58 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to UFS fs using tar.
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Tar up test file and place on a ZFS filesystem
42 # 3. Extract tar contents to a UFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/tar$.tar
52     $RM -rf $NONZFS_TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_002_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to UFS fs using tar"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$STAR cf $TESTDIR/tar$.tar $BNAME"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $NONZFS_TESTDIR $SUMA $SUMB "$STAR xf $TESTDIR/tar$.tar"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "ZFS fs to UFS fs"
65 #
66 log_pass "Successfully migrated test file from ZFS fs to UFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_003_pos.ksh 1

```
*****
1906 Fri Nov 22 15:20:58 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from UFS fs to ZFS fs using tar.
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Tar up test file and place on a UFS filesystem
42 # 3. Extract tar contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $NONZFS_TESTDIR/tar$.tar
52     $RM -rf $TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_003_pos.ksh 2

```
55 log_assert "Migrating test file from UFS fs to ZFS fs using tar"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$STAR cf $NONZFS_TESTDIR/tar$.tar $BNAME"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $TESTDIR $SUMA $SUMB "$STAR xvf $NONZFS_TESTDIR/tar$.tar"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "UFS fs to ZFS fs"
65 #
66 log_pass "Successfully migrated test file from UFS fs to ZFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_004_pos.ksh 1

```
*****
2051 Fri Nov 22 15:20:58 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to ZFS fs using cpio
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Cpio up test file and place on a ZFS filesystem
42 # 3. Extract cpio contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/cpio$$cpio
52     $RM -rf $TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_004_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to ZFS fs using cpio"
57 log_onexit cleanup
58 #
59 cwd=$PWD
60 cd $DNAME
61 (( $? != 0 )) && log_untested "Could not change directory to $DNAME"
62 #
63 $LS $BNAME | $CPIO -oc > $TESTDIR/cpio$$cpio
64 (( $? != 0 )) && log_failed "Unable to create cpio archive"
65 #
66 cd $cwd
67 (( $? != 0 )) && log_untested "Could not change directory to $cwd"
68 #
69 migrate_cpio $TESTDIR "$TESTDIR/cpio$$cpio" $SUMA $SUMB
70 (( $? != 0 )) && log_fail "Uable to successfully migrate test file from" \
71     "ZFS fs to ZFS fs"
72 #
73 log_pass "Successfully migrated test file from ZFS fs to ZFS fs".
```


new/usr/src/test/zfs-tests/tests/functional/migration/migration_005_pos.ksh 1

```
*****
2065 Fri Nov 22 15:20:59 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to UFS fs using cpio
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Cpio up test file and place on a ZFS filesystem
42 # 3. Extract cpio contents to a UFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/cpio$$cpio
52     $RM -rf $NONZFS_TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_005_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to UFS fs using cpio"
56 #
57 log_onexit cleanup
58 #
59 cwd=$PWD
60 cd $DNAME
61 (( $? != 0 )) && log_untested "Could not change directory to $DNAME"
62 #
63 $LS $BNAME | $CPIO -oc > $TESTDIR/cpio$$cpio
64 (( $? != 0 )) && log_failed "Unable to create cpio archive"
65 #
66 cd $cwd
67 (( $? != 0 )) && log_untested "Could not change directory to $cwd"
68 #
69 migrate_cpio $NONZFS_TESTDIR "$TESTDIR/cpio$$cpio" $SUMA $SUMB
70 (( $? != 0 )) && log_fail "Uable to successfully migrate test file from" \
71     "ZFS fs to UFS fs"
72 #
73 log_pass "Successfully migrated test file from ZFS fs to UFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_006_pos.ksh 1

```
*****
2072 Fri Nov 22 15:20:59 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from UFS fs to ZFS fs using cpio
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Cpio up test file and place on a UFS filesystem
42 # 3. Extract cpio contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $NONZFS_TESTDIR/cpio$$cpio
52     $RM -rf $TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_006_pos.ksh 2

```
55 log_assert "Migrating test file from UFS fs to ZFS fs using cpio"
57 log_onexit cleanup
58 #
59 cwd=$PWD
60 cd $DNAME
61 (( $? != 0 )) && log_untested "Could not change directory to $DNAME"
62 #
63 $LS $BNAME | $CPIO -oc > $NONZFS_TESTDIR/cpio$$cpio
64 (( $? != 0 )) && log_failed "Unable to create cpio archive"
65 #
66 cd $cwd
67 (( $? != 0 )) && log_untested "Could not change directory to $cwd"
68 #
69 migrate_cpio $TESTDIR "$NONZFS_TESTDIR/cpio$$cpio" $SUMA $SUMB
70 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
71     "ZFS fs to ZFS fs"
72 #
73 log_pass "Successfully migrated test file from UFS fs to ZFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_007_pos.ksh 1

```
*****
1903 Fri Nov 22 15:21:00 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to ZFS fs using dd.
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Dd up test file and place on a ZFS filesystem
42 # 3. Extract dd contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/dd$.dd
52     $RM -rf $TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_007_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to ZFS fs using dd"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$DD if=$BNAME obs=128k of=$TESTDIR/dd$.dd"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $TESTDIR $SUMA $SUMB "$DD if=$TESTDIR/dd$.dd obs=128k of=$BNAME"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "ZFS fs to ZFS fs"
65 #
66 log_pass "Successfully migrated test file from ZFS fs to ZFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_008_pos.ksh 1

```
*****
1917 Fri Nov 22 15:21:00 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to UFS fs using dd.
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Dd up test file and place on a ZFS filesystem
42 # 3. Extract dd contents to a UFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/dd$.dd
52     $RM -rf $NONZFS_TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_008_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to UFS fs using dd"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$DD if=$BNAME obs=128k of=$TESTDIR/dd$.dd"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $NONZFS_TESTDIR $SUMA $SUMB "$DD if=$TESTDIR/dd$.dd obs=128k of=$BNAME"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "ZFS fs to ZFS fs"
65 #
66 log_pass "Successfully migrated test file from ZFS fs to UFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_009_pos.ksh 1

```
*****
1924 Fri Nov 22 15:21:00 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from UFS fs to ZFS fs using dd.
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. Dd up test file and place on a UFS filesystem
42 # 3. Extract dd contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/dd$.dd
52     $RM -rf $NONZFS_TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_009_pos.ksh 2

```
55 log_assert "Migrating test file from UFS fs to ZFS fs using dd"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$DD if=$BNAME obs=128k of=$NONZFS_TESTDIR/dd$.dd"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $TESTDIR $SUMA $SUMB "$DD if=$NONZFS_TESTDIR/dd$.dd obs=128k of=$BNAME"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "ZFS fs to ZFS fs"
65 #
66 log_pass "Successfully migrated test file from UFS fs to ZFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_010_pos.ksh 1

```
*****
1872 Fri Nov 22 15:21:01 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_010_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to ZFS fs using cp
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. CP up test file and place on a ZFS filesystem
42 # 3. Extract cp contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/cp$$cp
52     $RM -rf $TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_010_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to ZFS fs using cp"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$CP $BNAME $TESTDIR/cp$$cp"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $TESTDIR $SUMA $SUMB "$CP $TESTDIR/cp$$cp $BNAME"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "ZFS fs to ZFS fs"
65 #
66 log_pass "Successfully migrated test file from ZFS fs to ZFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_011_pos.ksh 1

```
*****
1886 Fri Nov 22 15:21:01 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_011_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from ZFS fs to UFS fs using cp
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. CP up test file and place on a ZFS filesystem
42 # 3. Extract cp contents to a UFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $NONZFS_TESTDIR/cp$$$.cp
52     $RM -rf $TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_011_pos.ksh 2

```
55 log_assert "Migrating test file from ZFS fs to UFS fs using cp"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$CP $BNAME $TESTDIR/cp$$$.cp"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $NONZFS_TESTDIR $SUMA $SUMB "$CP $TESTDIR/cp$$$.cp $BNAME"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "ZFS fs to UFS fs"
65 #
66 log_pass "Successfully migrated test file from ZFS fs to UFS fs".
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_012_pos.ksh 1

```
*****
1893 Fri Nov 22 15:21:01 2013
new/usr/src/test/zfs-tests/tests/functional/migration/migration_012_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Migrating test file from UFS fs to ZFS fs using cp
38 #
39 # STRATEGY:
40 # 1. Calculate checksum of testfile
41 # 2. CP up test file and place on a UFS filesystem
42 # 3. Extract cp contents to a ZFS file system
43 # 4. Calculate checksum of extracted file
44 # 5. Compare old and new checksums.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     $RM -rf $TESTDIR/cp$$cp
52     $RM -rf $NONZFS_TESTDIR/$BNAME
53 }
```

new/usr/src/test/zfs-tests/tests/functional/migration/migration_012_pos.ksh 2

```
55 log_assert "Migrating test file from UFS fs to ZFS fs using cp"
56 #
57 log_onexit cleanup
58 #
59 prepare $DNAME "$CP $BNAME $NONZFS_TESTDIR/cp$$cp"
60 (( $? != 0 )) && log_fail "Unable to create src archive"
61 #
62 migrate $TESTDIR $SUMA $SUMB "$CP $NONZFS_TESTDIR/cp$$cp $BNAME"
63 (( $? != 0 )) && log_fail "Unable to successfully migrate test file from" \
64     "UFS fs to ZFS fs"
65 #
66 log_pass "Successfully migrated test file from UFS fs to ZFS fs".
```



```

*****
2024 Fri Nov 22 15:21:02 2013
new/usr/src/test/zfs-tests/tests/functional/migration/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/migration/migration.cfg
34 #
35 verify_runnable "global"
36 #
37 case $DISK_COUNT in
38 0)
39     log_untested "Need at least 1 disk device for test"
40     ;;
41 1)
42     log_note "Partitioning a single disk ($SINGLE_DISK)"
43     ;;
44 *)
45     log_note "Partitioning disks ($ZFS_DISK $NONZFS_DISK)"
46     ;;
47 esac
48 #
49 set_partition ${ZFSIDE_DISK##*s} "" $FS_SIZE $ZFS_DISK
50 set_partition ${NONZFSIDE_DISK##*s} "" $FS_SIZE $NONZFS_DISK
51 #
52 create_pool $TESTPOOL "$ZFSIDE_DISK"
53 #
54 $RM -rf $TESTDIR || log_unresolved Could not remove $TESTDIR

```

```

55 $MKDIR -p $TESTDIR || log_unresolved Could not create $TESTDIR
56 #
57 log_must $ZFS create $TESTPOOL/$TESTFS
58 log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
59 #
60 $RM -rf $NONZFS_TESTDIR || log_unresolved Could not remove $NONZFS_TESTDIR
61 $MKDIR -p $NONZFS_TESTDIR || log_unresolved Could not create $NONZFS_TESTDIR
62 #
63 $ECHO "y" | $NEWFS -v /dev/rdisk/$NONZFSSIDE_DISK
64 (( $? != 0 )) &&
65     log_untested "Unable to setup a UFS file system"
66 #
67 log_must $MOUNT /dev/dsk/$NONZFSSIDE_DISK $NONZFS_TESTDIR
68 #
69 log_pass

```

new/usr/src/test/zfs-tests/tests/functional/mmap/Makefile

1

858 Fri Nov 22 15:21:02 2013

new/usr/src/test/zfs-tests/tests/functional/mmap/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/mmap
```

```
21 PROGS = cleanup \
22         mmap_read_001_pos \
23         mmap_write_001_pos \
24         setup
```

```
26 CMDS = $(PROGS:%=$(TESTDIR)/%)
27 $(CMDS) := FILEMODE = 0555
```

```
29 all lint clean clobber:
```

```
31 install: $(CMDS)
```

```
33 $(CMDS): $(TESTDIR)
```

```
35 $(TESTDIR):
36     $(INS.dir)
```

```
38 $(TESTDIR)/%: %.ksh
39     $(INS.rename)
```

```
41 $(TESTDIR)/%: %
42     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/mmap/cleanup.ksh

1

1031 Fri Nov 22 15:21:03 2013

new/usr/src/test/zfs-tests/tests/functional/mmap/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

1585 Fri Nov 22 15:21:03 2013
new/usr/src/test/zfs-tests/tests/functional/mmap/mmap_read_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # read()s from mmap()'ed file contain correct data.
37 #
38 # STRATEGY:
39 # 1. Create a pool & dataset
40 # 2. Call readmmap binary
41 # 3. unmount this file system
42 # 4. Verify the integrity of this pool & dataset
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "read()s from mmap()'ed file contain correct data."
48 #
49 log_must $CHMOD 777 $TESTDIR
50 log_must $READMMAP $TESTDIR/test-read-file
51 log_must $ZFS unmount $TESTPOOL/$TESTFS
52 #
53 typeset dir=$(get_device_dir $DISKS)
54 verify_filesys "$TESTPOOL" "$TESTPOOL/$TESTFS" "$dir"
```

56 log_pass "read(2) calls from a mmap(2)'ed file succeeded."

new/usr/src/test/zfs-tests/tests/functional/mmap/mmap_write_001_pos.ksh 1

```
*****
1846 Fri Nov 22 15:21:03 2013
new/usr/src/test/zfs-tests/tests/functional/mmap/mmap_write_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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26 #
27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Writing to a file and mmaping that file at the
37 # same time does not result in a deadlock.
38 #
39 # STRATEGY:
40 # 1. Make sure this test executes on multi-processes system.
41 # 2. Call mmapwrite binary.
42 # 3. wait 30s and make sure the test file existed.
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "write()s to a file and mmap() that file at the same time does not "\
48 "result in a deadlock."
49 #
50 # Detect and make sure this test must be executed on a multi-process system
51 is_mp || log_fail "This test requires a multi-processor system."
52 #
53 log_must $CHMOD 777 $TESTDIR
54 $MMAPWRITE $TESTDIR/test-write-file &
```

new/usr/src/test/zfs-tests/tests/functional/mmap/mmap_write_001_pos.ksh 2

```
55 PID_MMAPWRITE=$!
56 log_note "$MMAPWRITE $TESTDIR/test-write-file pid: $PID_MMAPWRITE"
57 log_must $SLEEP 30
58 #
59 log_must $KILL -9 $PID_MMAPWRITE
60 log_must $LS -l $TESTDIR/test-write-file
61 #
62 log_pass "write(2) a mmap(2)'ing file succeeded."
```

new/usr/src/test/zfs-tests/tests/functional/mmap/setup.ksh

1

1054 Fri Nov 22 15:21:04 2013

new/usr/src/test/zfs-tests/tests/functional/mmap/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/mount/Makefile

1

847 Fri Nov 22 15:21:04 2013

new/usr/src/test/zfs-tests/tests/functional/mount/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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```

```
12 #
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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/mount
```

```
21 PROGS = cleanup \
22         umount_001 \
23         umountall_001 \
24         setup
```

```
26 CMDS = $(PROGS:%=$(TESTDIR)/%)
27 $(CMDS) := FILEMODE = 0555
```

```
29 all lint clean clobber:
```

```
31 install: $(CMDS)
```

```
33 $(CMDS): $(TESTDIR)
```

```
35 $(TESTDIR):
36     $(INS.dir)
```

```
38 $(TESTDIR)/%: %.ksh
39     $(INS.rename)
```

```
41 $(TESTDIR)/%: %
42     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/mount/cleanup.ksh

1

1092 Fri Nov 22 15:21:04 2013

new/usr/src/test/zfs-tests/tests/functional/mount/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 log_must destroy_pool $TESTPOOL
35 #
36 for dir in $TESTDIRS; do
37     $RM -rf $dir
38 done
```


new/usr/src/test/zfs-tests/tests/functional/mount/setup.ksh

1

1254 Fri Nov 22 15:21:04 2013

new/usr/src/test/zfs-tests/tests/functional/mount/setup.ksh

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 create_pool $TESTPOOL "$DISK"
36 #
37 for i in 1 2 3; do
38     dir=$TESTDIR.$i
39     fs=$TESTPOOL/$TESTFS.$i
40 #
41     log_must $ZFS create $fs
42     log_must $MKDIR -p $dir
43     log_must $ZFS set mountpoint=$dir $fs
44 #
45     log_must mounted $fs
46 done
47 #
48 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/mount/umount_001.ksh

1

1532 Fri Nov 22 15:21:05 2013

new/usr/src/test/zfs-tests/tests/functional/mount/umount_001.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # zfs mount and unmount commands should mount and unmount existing
37 # file systems.
38 #
39 # STRATEGY:
40 # 1. Call zfs mount command
41 # 2. Make sure the file systems were mounted
42 # 3. Call zfs unmount command
43 # 4. Make sure the file systems were unmounted
44 #
45 #
46 for fs in 1 2 3; do
47     log_must mounted $TESTDIR.$fs
48     log_must $ZFS umount $TESTPOOL/$TESTFS.$fs
49     log_must unmounted $TESTDIR.$fs
50     log_must $ZFS mount $TESTPOOL/$TESTFS.$fs
51     log_must mounted $TESTDIR.$fs
52 done
53 #
54 log_pass "All file systems are unmounted"
```

new/usr/src/test/zfs-tests/tests/functional/mount/umount_001.ksh

2

new/usr/src/test/zfs-tests/tests/functional/mount/umountall_001.ksh 1

1985 Fri Nov 22 15:21:05 2013

new/usr/src/test/zfs-tests/tests/functional/mount/umountall_001.ksh

4206 history_003_pos relies on exact size of history log and entries

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18 . $STF_SUITE/include/libtest.shlib
20 #
21 # DESCRIPTION:
22 # There are myriad problems associated with trying to test umountall in a way
23 # that works reliable across different systems. Some filesystems won't unmount
24 # because they're busy. Some won't remount because they were legacy mounts in
25 # the first place. etc...
26 # Make a best approximation by calling umountall with the -n option, and verify
27 # that the list of things it would try to unmount makes sense.
28 #
29 # STRATEGY:
30 # 1. Make a list of file systems umountall is known to ignore.
31 # 2. Append all ZFS file systems on this system.
32 # 3. Run umountall -n and verify the file systems it reports are in the list.
33 #
35 log_must $ZFS mount -a
36 for fs in 1 2 3 ; do
37     log_must mounted $TESTPOOL/$TESTFS.$fs
38 done
40 # This is the list we check the output of umountall -n against. We seed it
41 # with these values because umountall will ignore them, and they're possible
42 # (though most are improbable) ZFS filesystem mountpoints.
43 zfs_list="/lib /sbin /tmp /usr /var /var/adm /var/run"
45 # Append our ZFS filesystems to the list, not worrying about duplicates.
46 for fs in $(($MOUNT -p | $AWK '{if ($4 == "zfs") print $3}'); do
47     zfs_list="$zfs_list $fs"
48 done
50 fs=''
51 for fs in $($UMOUNTALL -n -F zfs 2>&1 | $AWK '{print $2}'); do
52     for i in $zfs_list; do
53         [[ $fs = $i ]] && continue 2
54     done
```

new/usr/src/test/zfs-tests/tests/functional/mount/umountall_001.ksh 2

```
55     log_fail "umountall -n -F zfs tried to unmount $fs"
56 done
57 [[ -n $fs ]] || log_fail "umountall -n -F zfs produced no output"
59 log_pass "All ZFS file systems would have been unmounted"
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/Makefile

1

931 Fri Nov 22 15:21:05 2013

new/usr/src/test/zfs-tests/tests/functional/mv_files/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/mv_files
```

```
21 PROGS = cleanup \
22         mv_files_001_pos \
23         mv_files_002_pos \
24         setup
```

```
26 FILES = mv_files.cfg \
27         mv_files_common.kshlib
```

```
29 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
30 $(CMDS) := FILEMODE = 0555
```

```
32 all lint clean clobber:
```

```
34 install: $(CMDS)
```

```
36 $(CMDS): $(TESTDIR)
```

```
38 $(TESTDIR):
39     $(INS.dir)
```

```
41 $(TESTDIR)/%: %.ksh
42     $(INS.rename)
```

```
44 $(TESTDIR)/%: %
45     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/cleanup.ksh

1

1477 Fri Nov 22 15:21:06 2013

new/usr/src/test/zfs-tests/tests/functional/mv_files/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/mv_files/mv_files_common.kshlib
34 #
35 verify_runnable "global"
36 #
37 [[ -f /var/tmp/exitsZero.ksh ]] && \
38     log_must $RM -f /var/tmp/exitsZero.ksh
39 [[ -f /var/tmp/testbackgprocs.ksh ]] && \
40     log_must $RM -f /var/tmp/testbackgprocs.ksh
41 #
42 ismounted $TESTPOOL/$TESTFS_TGT
43 (( $? == 0 )) && log_must $ZFS umount $TESTPOOL/$TESTFS_TGT
44 log_must $ZFS destroy $TESTPOOL/$TESTFS_TGT
45 #
46 [[ -d $TESTDIR_TGT ]] && log_must $RM -rf $TESTDIR_TGT
47 #
48 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files.cfg

1

1399 Fri Nov 22 15:21:06 2013

new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files.cfg

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export DISK=${DISKS%% *}
32 #
33 export TESTFILE=testfile
34 #
35 export TESTDIR_TGT=${TEST_BASE_DIR%}/testdir_tgt
36 export TESTFS_TGT=testzfs_tgt
37 export OLDDIR=$TESTDIR/olddir
38 export NEWDIR_IN_FS=$TESTDIR/newdir
39 export NEWDIR_ACROSS_FS=$TESTDIR_TGT/newdir
40 #
41 export MVNUMFILES=2000 # <number of files to start>
42 export MVNUMINCR=1000 # <number of files to be increased to>
43 export GANGPIDS=50 # <number of limit for parallel background running proce
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_001_pos.ksh 1

```
*****
1939 Fri Nov 22 15:21:06 2013
new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/mv_files/mv_files_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Doing a 'mv' of a large amount of files between two directories
38 # within a zfs filesystem works without errors.
39 #
40 # STRATEGY:
41 #
42 # 1. create a pool and a zfs filesystem
43 # 2. create two directories within the filesystem
44 # 3. create a large number of files within a directory
45 # 4. Move files from one directory to another and back again
46 # 5. validate file number
47 # 6. increase the number of files to $MVNUMFILES + $MVNUMINCR
48 # 7. repeat steps 3,4,5,6 above
49 # 8. verify the data integrity
50 #
51 #
52 verify_runnable "global"
53 #
54 function cleanup
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_001_pos.ksh 2

```
55 {
56     PIDS=""
57     $RM -f $OLDDIR/* >/dev/null 2>&1
58     $RM -f $NEWDIR_IN_FS/* >/dev/null 2>&1
59 }
60 #
61 log_assert "Doing a 'mv' of a large amount of files within a zfs filesystem" \
62     "works without errors."
63 #
64 log_onexit cleanup
65 #
66 mv_test $OLDDIR $NEWDIR_IN_FS
67 (( $? != 0 )) && log_fail "'mv' test failed to complete."
68 #
69 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_002_pos.ksh 1

```
*****
2004 Fri Nov 22 15:21:07 2013
new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 # $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/mv_files/mv_files_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Doing a 'mv' of a large amount of files between two directories across
38 # two zfs filesystems works without errors.
39 #
40 # STRATEGY:
41 #
42 # 1. create a pool and two zfs filesystems
43 # 2. create a directory in each filesystem
44 # 3. create a large number of files in a directory of a filesystem
45 # 4. Move files from the directory to another directory in another
46 # filesystem and back again
47 # 5. validate file number
48 # 6. increase the number of files to $MVNUMFILES + $MVNUMINCR
49 # 7. repeat steps 3,4,5,6 above
50 # 8. verify the data integrity
51 #
52 #
53 verify_runnable "global"
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_002_pos.ksh 2

```
55 function cleanup
56 {
57     PIDS=""
58     $RM -f $OLDDIR/* >/dev/null 2>&1
59     $RM -f $NEWDIR_ACROSS_FS/* >/dev/null 2>&1
60 }
61 #
62 log_assert "Doing a 'mv' of a large amount of files across two zfs filesystems"
63     "works without errors."
64 #
65 log_onexit cleanup
66 #
67 mv_test $OLDDIR $NEWDIR_ACROSS_FS
68 (( $? != 0 )) && \
69     log_fail "'mv' test failed to complete."
70 #
71 log_pass
```


new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_common.kshlib 1

```
*****
4944 Fri Nov 22 15:21:07 2013
new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_common.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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29 #
30 #
31 . $STF_SUITE/tests/functional/mv_files/mv_files.cfg
32 #
33 #
34 # Determine whether this version of the ksh being
35 # executed has a bug where the limit of background
36 # processes of 25.
37 #
38 function check_bg_procs_limit_num
39 {
40 $ECHO "#!/usr/bin/ksh" > /var/tmp/exitsZero.ksh
41 $ECHO "exit 0" >> /var/tmp/exitsZero.ksh
42 $CHMOD 777 /var/tmp/exitsZero.ksh
43 #
44 $CAT <<EOF > /var/tmp/testbackprocs.ksh
45 #!/usr/bin/ksh
46 #
47 # exitsZero.ksh is a one line script
48 # that exit with status of "0"
49 #
50 #
51 PIDS=""
52 typeset -i i=1
53 while [ \${i} -le 50 ]
54 do
```

new/usr/src/test/zfs-tests/tests/functional/mv_files/mv_files_common.kshlib 2

```
55 /var/tmp/exitsZero.ksh &
56 PIDS="\${PIDS} \$!"
57 (( i = i + 1 ))
58 done
59 #
60 \${SLEEP} 1
61 #
62 for pid in \${PIDS}
63 do
64 \${WAIT} \${pid}
65 (( \${?} == 127 )) && exit 1
66 done
67 exit 0
68 EOF
69 #
70 $KSH /var/tmp/testbackprocs.ksh
71 if [[ \${?} -eq 1 ]]; then
72 #
73 # Current ksh being executed has a limit
74 # of 25 background processes.
75 #
76 return 1
77 else
78 return 0
79 fi
80 }
81 #
82 function init_setup
83 {
84 #
85 typeset disklist=$1
86 #
87 create_pool $TESTPOOL "$disklist"
88 #
89 if ! is_global_zone ; then
90 reexport_pool
91 fi
92 #
93 $RM -rf $TESTDIR || log_unresolved Could not remove $TESTDIR
94 $MKDIR -p $TESTDIR || log_unresolved Could not create $TESTDIR
95 #
96 $RM -rf $TESTDIR_TGT || log_unresolved Could not remove $TESTDIR_TGT
97 $MKDIR -p $TESTDIR_TGT || log_unresolved Could not create $TESTDIR_TGT
98 #
99 log_must $ZFS create $TESTPOOL/$TESTFS
100 log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
101 #
102 log_must $ZFS create $TESTPOOL/$TESTFS_TGT
103 log_must $ZFS set mountpoint=$TESTDIR_TGT $TESTPOOL/$TESTFS_TGT
104 #
105 $MKDIR -p $OLDDIR || log_unresolved Could not create $OLDDIR
106 $MKDIR -p $NEWDIR_IN_FS || log_unresolved Could not create $NEWDIR_IN_FS
107 $MKDIR -p $NEWDIR_ACROSS_FS || log_unresolved Could not create $NEWDIR_A
108 #
109 }
110 #
111 function wait_pid
112 {
113 for pid in $1
114 do
115 $PS -e | $GREP \${pid} >/dev/null 2>&1
116 (( \${?} == 0 )) && $WAIT \${pid}
117 done
118 }
```

```

121 #
122 # Generate given number files in a
123 # directory of zfs file system
124 # $1 - the directory holds the generated files
125 # $2 - number of to-be-generated files
126 #

128 function generate_files
129 {
130     typeset -i count
131     typeset -i proc_num=0

133     if (( $2 == $MNUMFILES )); then
134         count=1
135     else
136         count=$MNUMFILES+1
137     fi

139     while (( count <= $2 ))
140     do
141         $SCP /etc/passwd $1/file_ccount \
142             > /dev/null 2>&1 &

144         PIDS="$PIDS $!"

146         proc_num=`$ECHO $PIDS | $WC -w`
147         if (( proc_num >= GANGPIDS )); then
148             wait_pid "$PIDS"
149             proc_num=0
150             PIDS=""
151         fi

153         (( count = count + 1 ))
154     done

156 }

158 #
159 # Move given number files from one directory to
160 # another directory in parallel
161 # $1 - source directory
162 # $2 - target directory
163 #
164 function mv_files
165 {
167     $FIND $1 -type f -print | xargs -i \
168         $MV {} $2 > /dev/null 2>&1
169 }

171 #
172 # Count the files number after moving, and
173 # compare it with the original number
174 # $1 - directory that to be operated
175 # $2 - original files number
176 #
177 function count_files
178 {
179     typeset -i file_num
180     file_num=`$FIND $1 -type f -print | \
181         wc -l`
182     (( file_num != $2 )) && \
183         log_fail "The file number of target directory"\
184             "$2 is not equal to that of the source "\
185             "directory $1"

```

```

187 }

189 #
190 # Running the 'mv' test
191 # $1 - old directory
192 # $2 - new directory
193 #
194 function mv_test
195 {
196     typeset old=$1
197     typeset new=$2

199     typeset -i inc_num=$(( MNUMFILES + MNUMINCR ))
200     typeset -i num=0

202     for num in $MNUMFILES $inc_num
203     do
204         generate_files $old $num

206         mv_files $old $new
207         count_files $new $num

209         mv_files $new $old
210         count_files $old $num
211     done

213     typeset dir=$(get_device_dir $DISKS)
214     verify_filesys "$TESTPOOL" "$TESTPOOL/$TESTFS" "$dir"

216     return 0
217 }

```

new/usr/src/test/zfs-tests/tests/functional/mv_files/setup.ksh

1

1273 Fri Nov 22 15:21:07 2013

new/usr/src/test/zfs-tests/tests/functional/mv_files/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/mv_files/mv_files_common.kshlib
34 #
35 verify_runnable "global"
36 #
37 check_bg_procs_limit_num
38 if [[ $? -ne 0 ]]; then
39     log_note "ksh background process limit number is 25"
40     export GANGPIDS=25
41 fi
42 #
43 export PIDS=""
44 #
45 init_setup $DISK
46 #
47 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/nestedfs/Makefile

1

839 Fri Nov 22 15:21:07 2013

new/usr/src/test/zfs-tests/tests/functional/nestedfs/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/nestedfs
```

```
21 PROGS = cleanup \
22         nestedfs_001_pos \
23         setup
```

```
25 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
26 $(CMDS) := FILEMODE = 0555
```

```
28 all lint clean clobber:
```

```
30 install: $(CMDS)
```

```
32 $(CMDS): $(TESTDIR)
```

```
34 $(TESTDIR):
```

```
35     $(INS.dir)
```

```
37 $(TESTDIR)/%: %.ksh
```

```
38     $(INS.rename)
```

```
40 $(TESTDIR)/%: %
```

```
41     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/nestedfs/cleanup.ksh

1

1041 Fri Nov 22 15:21:08 2013

new/usr/src/test/zfs-tests/tests/functional/nestedfs/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_container_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/nestedfs/nestedfs_001_pos.ksh 1

```
*****
1824 Fri Nov 22 15:21:08 2013
new/usr/src/test/zfs-tests/tests/functional/nestedfs/nestedfs_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Given a pool create a nested file system and a ZFS file system
37 # in the nested file system. Populate the file system.
38 #
39 # As a sub-assertion, the test verifies that a nested file system with
40 # a mounted file system cannot be destroyed.
41 #
42 # STRATEGY:
43 # 1. Create a file in the new mountpoint
44 # 2. Unmount the new mountpoint
45 # 3. Show a nested file system with file systems cannot be destroyed
46 #
47 #
48 verify_runnable "both"
49 #
50 log_assert "Verify a nested file system can be created/destroyed."
51 #
52 log_must $FILE_WRITE -o create -f $TESTDIR1/file -b 8192 -c 600 -d 0
53 log_must $ZFS unmount $TESTDIR1
```

new/usr/src/test/zfs-tests/tests/functional/nestedfs/nestedfs_001_pos.ksh 2

```
55 log_note "Verify that a nested file system with a mounted file system "\
56 "cannot be destroyed."
57 log_mustnot $ZFS destroy $TESTPOOL/$TESTCTR
58 #
59 log_pass "A nested file system was successfully populated."
```

new/usr/src/test/zfs-tests/tests/functional/nestedfs/setup.ksh

1

1064 Fri Nov 22 15:21:09 2013

new/usr/src/test/zfs-tests/tests/functional/nestedfs/setup.ksh

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_container_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/no_space/Makefile

1

881 Fri Nov 22 15:21:09 2013

new/usr/src/test/zfs-tests/tests/functional/no_space/Makefile

4206 history_003_pos relies on exact size of history log and entries

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/no_space
```

```
21 PROGS = cleanup \
22         enospc_001_pos \
23         setup
```

```
25 FILES = enospc.cfg
```

```
27 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
28 $(CMDS) := FILEMODE = 0555
```

```
30 all lint clean clobber:
```

```
32 install: $(CMDS)
```

```
34 $(CMDS): $(TESTDIR)
```

```
36 $(TESTDIR):
37     $(INS.dir)
```

```
39 $(TESTDIR)/%: %.ksh
40     $(INS.rename)
```

```
42 $(TESTDIR)/%: %
43     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/no_space/cleanup.ksh

1

1309 Fri Nov 22 15:21:09 2013

new/usr/src/test/zfs-tests/tests/functional/no_space/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/no_space/enospc.cfg
33 #
34 verify_runnable "global"
35 #
36 DISK=${DISKS%% *}
37 #
38 ismounted "$TESTPOOL/$TESTFS"
39 (( $? == 0 )) && \
40     log_must $ZFS umount $TESTDIR
41 #
42 destroy_pool $TESTPOOL
43 #
44 # Remove 100mb partition.
45 #
46 create_pool dummy$$ "$DISK"
47 destroy_pool dummy$$
48 #
49 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/no_space/enospc.cfg

1

1115 Fri Nov 22 15:21:10 2013

new/usr/src/test/zfs-tests/tests/functional/no_space/enospc.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export TESTFILE0=testfile0.$$
32 export TESTFILE1=testfile1.$$
33 #
34 export SIZE=100mb
35 export ENOSPC=28
36 export BLOCKSZ=8192
37 export NUM_WRITES=65536
38 export DATA=0
```

new/usr/src/test/zfs-tests/tests/functional/no_space/enospc_001_pos.ksh 1

```
*****
2110 Fri Nov 22 15:21:10 2013
new/usr/src/test/zfs-tests/tests/functional/no_space/enospc_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/no_space/enospc.cfg
33 #
34 #
35 # DESCRIPTION:
36 # ENOSPC is returned on an attempt to write a second file
37 # to a file system after a first file was written that terminated
38 # with ENOSPC on a cleanly initialized file system.
39 #
40 # STRATEGY:
41 # 1. Write a file until the file system is full.
42 # 2. Ensure that ENOSPC is returned.
43 # 3. Write a second file while the file system remains full.
44 # 4. Verify the return code is ENOSPC.
45 #
46 #
47 verify_runnable "both"
48 #
49 log_assert "ENOSPC is returned when file system is full."
50 log_must $ZFS set compression=off $TESTPOOL/$TESTFS
51 #
52 log_note "Writing file: $TESTFILE0 until ENOSPC."
53 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE0 -b $BLOCKSZ \
54 -c $NUM_WRITES -d $DATA
```

new/usr/src/test/zfs-tests/tests/functional/no_space/enospc_001_pos.ksh 2

```
55 ret=$?
56 #
57 (( $ret != $ENOSPC )) && \
58   log_fail "$TESTFILE0 returned: $ret rather than ENOSPC."
59 #
60 log_note "Write another file: $TESTFILE1 but expect ENOSPC."
61 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 -b $BLOCKSZ \
62 -c $NUM_WRITES -d $DATA
63 ret=$?
64 #
65 (( $ret != $ENOSPC )) && \
66   log_fail "$TESTFILE1 returned: $ret rather than ENOSPC."
67 #
68 log_pass "ENOSPC returned as expected."
```

new/usr/src/test/zfs-tests/tests/functional/no_space/setup.ksh

1

1282 Fri Nov 22 15:21:10 2013

new/usr/src/test/zfs-tests/tests/functional/no_space/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/no_space/enospc.cfg
34 #
35 verify_runnable "global"
36 #
37 if ! $(is_physical_device $DISKS) ; then
38     log_unsupported "This directory cannot be run on raw files."
39 fi
40 #
41 DISK=${DISKS% *}
42 #
43 log_must set_partition 0 "" $SIZE $DISK
44 #
45 default_setup $DISK"s0"
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/Makefile

1

955 Fri Nov 22 15:21:11 2013

new/usr/src/test/zfs-tests/tests/functional/online_offline/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/online_offline
```

```
21 PROGS = cleanup \
22         online_offline_001_pos \
23         online_offline_002_neg \
24         online_offline_003_neg \
25         setup
```

```
27 FILES = online_offline.cfg
```

```
29 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
30 $(CMDS) := FILEMODE = 0555
```

```
32 all lint clean clobber:
```

```
34 install: $(CMDS)
```

```
36 $(CMDS): $(TESTDIR)
```

```
38 $(TESTDIR):
39     $(INS.dir)
```

```
41 $(TESTDIR)/%: %.ksh
42     $(INS.rename)
```

```
44 $(TESTDIR)/%: %
45     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/cleanup.ksh 1

1057 Fri Nov 22 15:21:11 2013

new/usr/src/test/zfs-tests/tests/functional/online_offline/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline.cfg 1

1294 Fri Nov 22 15:21:11 2013

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export TESTFILE=testfile.$$
32 export TESTFILE1=testfile1.$$
33 export HOLES_FILESIZE=${HOLES_FILESIZE-"67108864"} # 64 Mb
34 export HOLES_BLKSIZE=${HOLES_BLKSIZE-"512"}
35 export HOLES_SEED=${HOLES_SEED-""}
36 export HOLES_FILEOFFSET=${HOLES_FILEOFFSET-""}
37 export HOLES_COUNT=${HOLES_COUNT-"16384"} # FILESIZE/BLKSIZE/8
38 export STF_TIMEOUT=3600
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_001_po 1

```
*****
3503 Fri Nov 22 15:21:12 2013
new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_001_po
s.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/online_offline/online_offline.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Turning a disk offline and back online during I/O completes.
38 #
39 # STRATEGY:
40 #     1. Create a mirror and start some random I/O
41 #     2. For each disk in the mirror, set it offline and online
42 #     3. Verify the integrity of the file system and the resilvering.
43 #
44 #
45 verify_runnable "global"
46 #
47 DISKLIST=$(get_disklist $TESTPOOL)
48 #
49 function cleanup
50 {
51     #
52     # Ensure we don't leave disks in the offline state
53     #

```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_001_po 2

```
54     for disk in $DISKLIST; do
55         log_must $ZPOOL online $TESTPOOL $disk
56         check_state $TESTPOOL $disk "online"
57         if [[ $? != 0 ]]; then
58             log_fail "Unable to online $disk"
59         fi
60     done
61 #
62 #
63 [[ -e $TESTDIR ]] && log_must $RM -rf $TESTDIR/*
64 }
65 #
66 log_assert "Turning a disk offline and back online during I/O completes."
67 #
68 options=""
69 options_display="default options"
70 #
71 log_onexit cleanup
72 #
73 [[ -n "$HOLES_FILESIZE" ]] && options="$options -f $HOLES_FILESIZE "
74 #
75 [[ -n "$HOLES_BLKSIZE" ]] && options="$options -b $HOLES_BLKSIZE "
76 #
77 [[ -n "$HOLES_COUNT" ]] && options="$options -c $HOLES_COUNT "
78 #
79 [[ -n "$HOLES_SEED" ]] && options="$options -s $HOLES_SEED "
80 #
81 [[ -n "$HOLES_FILEOFFSET" ]] && options="$options -o $HOLES_FILEOFFSET "
82 #
83 options="$options -r "
84 #
85 [[ -n "$options" ]] && options_display=$options
86 #
87 typeset child_pid=""
88 #
89 typeset -i iters=2
90 typeset -i index=0
91 #
92 i=0
93 while [[ $i -lt $iters ]]; do
94     log_note "Invoking $FILE_TRUNC with: $options_display"
95     $FILE_TRUNC $options $TESTDIR/$TESTFILE.$i &
96     typeset pid=$!
97 #
98     $SLEEP 1
99     if ! $PS -p $pid > /dev/null 2>&1; then
100         log_fail "$FILE_TRUNC $options $TESTDIR/$TESTFILE.$i"
101     fi
102 #
103     child_pids="$child_pids $pid"
104     ((i = i + 1))
105 done
106 #
107 for disk in $DISKLIST; do
108     #
109     # Allow some common data to reach each side of the mirror.
110     #
111     $SLEEP 30
112 #
113     i=0
114     while [[ $i -lt $iters ]]; do
115         log_must $ZPOOL offline $TESTPOOL $disk
116         check_state $TESTPOOL $disk "offline"
117         if [[ $? != 0 ]]; then
118             log_fail "$disk of $TESTPOOL is not offline."
119         fi

```



```
121         (( i = i + 1 ))
122     done
123
124     #
125     # Sleep to allow the two sides to get out of sync
126     #
127     $SLEEP 60
128
129     log_must $ZPOOL online $TESTPOOL $disk
130     check_state $TESTPOOL $disk "online"
131     if [[ $? != 0 ]]; then
132         log_fail "$disk of $TESTPOOL did not match online state"
133     fi
134 done
135
136 for wait_pid in $child_pids
137 do
138     $KILL $wait_pid
139 done
140
141 typeset dir=$(get_device_dir $DISKS)
142 verify_filesys "$TESTPOOL" "$TESTPOOL/$TESTFMS" "$dir"
143
144 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_002_ne 1

```
*****
3262 Fri Nov 22 15:21:12 2013
new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_002_ne
g.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/online_offline/online_offline.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Turning both disks offline should fail.
38 #
39 # STRATEGY:
40 #     1. Create a mirror and start some random I/O
41 #     2. For each disk in the mirror, set them offline sequentially.
42 #     3. Only one disk can be offline at any one time.
43 #     4. Verify the integrity of the file system and the resilvering.
44 #
45 #
46 verify_runnable "global"
47 #
48 DISKLIST=$(get_disklist $TESTPOOL)
49 #
50 function cleanup
51 {
52     if [[ -n "$child_pids" ]]; then
53         for wait_pid in $child_pids
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_002_ne 2

```
54         do
55             $KILL $wait_pid
56         done
57     fi
58 #
59 # Ensure we don't leave disks in the offline state
60 #
61 #
62 for disk in $DISKLIST; do
63     log_must $ZPOOL online $TESTPOOL $disk
64     check_state $TESTPOOL $disk "online"
65     if [[ $? != 0 ]]; then
66         log_fail "Unable to online $disk"
67     fi
68 #
69 done
70 #
71 [[ -e $TESTDIR ]] && log_must $RM -rf $TESTDIR/*
72 }
73 #
74 log_assert "Turning both disks offline should fail."
75 #
76 options=""
77 options_display="default options"
78 #
79 log_onexit cleanup
80 #
81 [[ -n "$HOLES_FILESIZE" ]] && options="$options -f $HOLES_FILESIZE "
82 #
83 [[ -n "$HOLES_BLKSIZE" ]] && options="$options -b $HOLES_BLKSIZE "
84 #
85 [[ -n "$HOLES_COUNT" ]] && options="$options -c $HOLES_COUNT "
86 #
87 [[ -n "$HOLES_SEED" ]] && options="$options -s $HOLES_SEED "
88 #
89 [[ -n "$HOLES_FILEOFFSET" ]] && options="$options -o $HOLES_FILEOFFSET "
90 #
91 options="$options -r "
92 #
93 [[ -n "$options" ]] && options_display=$options
94 #
95 child_pid=""
96 #
97 typeset -i iters=2
98 typeset -i index=0
99 #
100 i=0
101 while [[ $i -lt $iters ]]; do
102     log_note "Invoking $FILE_TRUNC with: $options_display"
103     $FILE_TRUNC $options $TESTDIR/$TESTFILE.$i &
104     typeset pid=$!
105 #
106     $SLEEP 1
107     if ! $PS -p $pid > /dev/null 2>&1; then
108         log_fail "$FILE_TRUNC $options $TESTDIR/$TESTFILE.$i"
109     fi
110 #
111     child_pids="$child_pids $pid"
112     ((i = i + 1))
113 done
114 #
115 set -A disk "" $DISKLIST
116 #
117 log_must $ZPOOL offline $TESTPOOL ${disk[1]}
118 #
119 $SLEEP 60
```

```
121 for wait_pid in $child_pids
122 do
123     $KILL $wait_pid
124 done
125 child_pids=""

127 i=1
128 while [[ $i != ${#disk[*]} ]]; do
129     log_must $ZPOOL online $TESTPOOL ${disk[$i]}
130     check_state $TESTPOOL ${disk[$i]} "online"
131     if [[ $? != 0 ]]; then
132         log_fail "${disk[$i]} of $TESTPOOL did not match online state"
133     fi
135     ((i = i + 1))
136 done

138 typeset dir=$(get_device_dir $DISKS)
139 verify_filesys "$TESTPOOL" "$TESTPOOL/$TESTFS" "$dir"

141 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_003_ne 1

```
*****
3132 Fri Nov 22 15:21:12 2013
new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_003_ne
g.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/online_offline/online_offline.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Turning both disks offline should fail.
38 #
39 # STRATEGY:
40 #     1. Create a multidisk stripe and start some random I/O
41 #     2. For two disks in the stripe, set them offline sequentially.
42 #     3. Zpool offline should fail in both cases.
43 #     4. Verify the integrity of the file system and the resilvering.
44 #
45 #
46 verify_runnable "global"
47 #
48 DISKLIST=$(get_disklist $TESTPOOL)
49 #
50 function cleanup
51 {
52     if [[ -n "$child_pids" ]]; then
53         for wait_pid in $child_pids
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_003_ne 2

```
54         do
55             $KILL $wait_pid
56         done
57     fi
58 #
59     if poolexists $TESTPOOL1; then
60         destroy_pool $TESTPOOL1
61     fi
62 #
63     [[ -e $TESTDIR ]] && log_must $RM -rf $TESTDIR/*
64 }
65 #
66 log_assert "Turning a disk offline and back online during I/O completes."
67 #
68 options=""
69 options_display="default options"
70 #
71 log_onexit cleanup
72 #
73 [[ -n "$HOLES_FILESIZE" ]] && options="$options -f $HOLES_FILESIZE "
74 #
75 [[ -n "$HOLES_BLKSIZE" ]] && options="$options -b $HOLES_BLKSIZE "
76 #
77 [[ -n "$HOLES_COUNT" ]] && options="$options -c $HOLES_COUNT "
78 #
79 [[ -n "$HOLES_SEED" ]] && options="$options -s $HOLES_SEED "
80 #
81 [[ -n "$HOLES_FILEOFFSET" ]] && options="$options -o $HOLES_FILEOFFSET "
82 #
83 options="$options -r "
84 #
85 [[ -n "$options" ]] && options_display=$options
86 #
87 child_pid=""
88 #
89 typeset -i iters=2
90 typeset -i index=0
91 #
92 specials_list=""
93 i=0
94 while [[ $i != 3 ]]; do
95     $MKFILE 100m $TESTDIR/$TESTFILE1.$i
96     specials_list="$specials_list $TESTDIR/$TESTFILE1.$i"
97 #
98     ((i = i + 1))
99 done
100 #
101 create_pool $TESTPOOL1 $specials_list
102 log_must $ZFS create $TESTPOOL1/$TESTFS1
103 log_must $ZFS set mountpoint=$TESTDIR1 $TESTPOOL1/$TESTFS1
104 #
105 i=0
106 while [[ $i -lt $iters ]]; do
107     log_note "Invoking $FILE_TRUNC with: $options_display"
108     $FILE_TRUNC $options $TESTDIR/$TESTFILE.$i &
109     typeset pid=$!
110 #
111     $SLEEP 1
112     if ! $PS -p $pid > /dev/null 2>&1; then
113         log_fail "$FILE_TRUNC $options $TESTDIR/$TESTFILE.$i"
114     fi
115 #
116     child_pids="$child_pids $pid"
117     ((i = i + 1))
118 done
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/online_offline_003_ne 3

```
120 set -A disk "" $specials_list
122 log_mustnot $ZPOOL offline $TESTPOOL1 ${disk[1]}
123 log_mustnot $ZPOOL offline $TESTPOOL1 ${disk[2]}
125 $SLEEP 60
127 for wait_pid in $child_pids
128 do
129     $KILL $wait_pid
130 done
131 child_pids=""
133 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/online_offline/setup.ksh

1

1254 Fri Nov 22 15:21:13 2013

new/usr/src/test/zfs-tests/tests/functional/online_offline/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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26 #
27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 verify_disk_count "$DISKS" 2
36 #
37 index=`expr $RANDOM % 2`
38 case $index in
39 0) log_note "Pool Type: Mirror"
40     default_mirror_setup $DISKS
41     ;;
42 1) log_note "Pool Type: RAID-Z"
43     default_raidz_setup $DISKS
44     ;;
45 esac
46 #
47 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/pool_names/Makefile

1

845 Fri Nov 22 15:21:13 2013

new/usr/src/test/zfs-tests/tests/functional/pool_names/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/pool_names
```

```
21 PROGS = pool_names_001_pos \
22         pool_names_002_neg
```

```
24 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
25 $(CMDS) := FILEMODE = 0555
```

```
27 all lint clean clobber:
```

```
29 install: $(CMDS)
```

```
31 $(CMDS): $(TESTDIR)
```

```
33 $(TESTDIR):
```

```
34     $(INS.dir)
```

```
36 $(TESTDIR)/%: %.ksh
```

```
37     $(INS.rename)
```

```
39 $(TESTDIR)/%: %
```

```
40     $(INS.file)
```

2977 Fri Nov 22 15:21:14 2013
new/usr/src/test/zfs-tests/tests/functional/pool_names/pool_names_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # Test that a set of valid names can be used to create pools. Further
38 # verify that the created pools can be destroyed.
39 #
40 # STRATEGY:
41 # 1) For each valid character in the character set, try to create
42 # and destroy the pool.
43 # 2) Given a list of valid pool names, try to create and destroy
44 # pools with the given names.
45 #
46 #
47 verify_runnable "global"
48 #
49 log_assert "Ensure that pool names can use the ASCII subset of UTF-8"
50 #
51 function cleanup
52 {
53     if [[ -n $name ]] && poolexists $name ; then
54         log_must $ZPOOL destroy $name
```

```
55     fi
56 #
57     if [[ -d $TESTDIR ]]; then
58         log_must $RM -rf $TESTDIR
59     fi
60 #
61 }
62 #
63 log_onexit cleanup
64 #
65 DISK=${DISKS%% * }
66 if [[ ! -e $TESTDIR ]]; then
67     log_must $MKDIR $TESTDIR
68 fi
69 #
70 log_note "Ensure letters of the alphabet are allowable"
71 #
72 typeset name=""
73 #
74 for name in A B C D E F G H I J K L M \
75     N O P Q R S T U V W X Y Z \
76     a b c d e f g h i j k l m \
77     n o p q r s t u v w x y z
78 do
79     log_must $ZPOOL create -m $TESTDIR $name $DISK
80     if ! poolexists $name; then
81         log_fail "Could not create a pool called '$name'"
82     fi
83 #
84     log_must $ZPOOL destroy $name
85 done
86 #
87 log_note "Ensure a variety of unusual names passes"
88 #
89 name=""
90 #
91 for name in "a....." "a_" "a-" "a:" \
92     "a." "a123456" "bc0t0d0" "mlrr0r_p001" "raidz_p001" \
93     "araidz2" "C0t2d0" "cc0t0" "raid2:-_" "mirr:-." \
94     "mlrr0r-p001" "raidz-p001" "spar3_p001" \
95     "spar3-p001" "hiddenmirrorpool" "hiddenraidzpool" \
96     "hiddensparepool"
97 do
98     log_must $ZPOOL create -m $TESTDIR $name $DISK
99     if ! poolexists $name; then
100         log_fail "Could not create a pool called '$name'"
101     fi
102 #
103 #
104 # Since the naming convention applies to datasets too,
105 # create datasets with the same names as above.
106 #
107     log_must $ZFS create $name/$name
108     log_must $ZFS snapshot $name/$name@$name
109     log_must $ZFS clone $name/$name@$name $name/clone_$name
110     log_must $ZFS create -V 150m $name/$name/$name
111 #
112     log_must $ZPOOL destroy $name
113 done
114 #
115 log_pass "Valid pool names were accepted correctly."
```



```

*****
3725 Fri Nov 22 15:21:14 2013
new/usr/src/test/zfs-tests/tests/functional/pool_names/pool_names_002_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # Ensure that a set of invalid names cannot be used to create pools.
38 #
39 # STRATEGY:
40 # 1) For each invalid character in the character set, try to create
41 # and destroy the pool. Verify it fails.
42 # 2) Given a list of invalid pool names, ensure the pools are not
43 # created.
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "Ensure that a set of invalid names cannot be used to create pools."
49 #
50 # Global variable use to cleanup failures.
51 POOLNAME=""
52 #
53 function cleanup
54 {

```

```

55     if poolexists $POOLNAME; then
56         log_must $ZPOOL destroy $POOLNAME
57     fi
58 #
59     if [[ -d $TESTDIR ]]; then
60         log_must $RM -rf $TESTDIR
61     fi
62 }
63 #
64 log_onexit cleanup
65 #
66 typeset exclude='eval $ECHO \"${KEEP}\"\` \"\`
67 for pool in $($ZPOOL list -H -o name | \
68     $EGREP -v "$exclude" | \
69     $EGREP -v "$TESTPOOL" | \
70     $EGREP -v "$NO_POOLS"); do
71     log_must $ZPOOL destroy $pool
72 done
73 #
74 DISK=${DISKS%% *}
75 if [[ ! -e $TESTDIR ]]; then
76     log_must $MKDIR $TESTDIR
77 fi
78 #
79 log_note "Ensure invalid characters fail"
80 for POOLNAME in `! " `# $ % & ' ( ) * \
81 "\ " + , " - " . " / " \ " \ \
82 0 1 2 3 4 5 6 7 8 9 \
83 " : " ; " < " = " > " \? " @ " \
84 "[ " ] " ^ " _ " \ ` { " | " " } " ~ "
85 do
86     log_mustnot $ZPOOL create -m $TESTDIR $POOLNAME $DISK
87     if poolexists $POOLNAME; then
88         log_fail "Unexpectedly created pool: '$POOLNAME'"
89     fi
90 #
91     log_mustnot $ZPOOL destroy $POOLNAME
92 done
93 #
94 log_note "Check that invalid octal values fail"
95 for oct in "\000" "\001" "\002" "\003" "\004" "\005" "\006" "\007" \
96     "\010" "\011" "\012" "\013" "\014" "\015" "\017" \
97     "\020" "\021" "\022" "\023" "\024" "\025" "\026" "\027" \
98     "\030" "\031" "\032" "\033" "\034" "\035" "\036" "\037" \
99     "\040" "\177"
100 do
101     POOLNAME='eval "echo x | tr `x` `soct`"'
102     log_mustnot $ZPOOL create -m $TESTDIR $POOLNAME $DISK
103     if poolexists $POOLNAME; then
104         log_fail "Unexpectedly created pool: '$POOLNAME'"
105     fi
106 #
107     log_mustnot $ZPOOL destroy $POOLNAME
108 done
109 #
110 log_note "Verify invalid pool names fail"
111 set -A POOLNAME "c0t0d0s0" "c0t0d0" "c0t0d19" "c0t50000E0108D279d0" \
112     "mirror" "raidz" " , " , , , , , , , , , , , , , , , \
113     "22222222222222222222" "mirror_pool" "raidz_pool" \
114     "mirror-pool" "raidz-pool" "spare" "spare_pool" \
115     "spare-pool" "raidz1-" "raidz2:" " :aaa" "-bbb" "_ccc" ".ddd"
116 if verify_slog_support ; then
117     POOLNAME[${#POOLNAME[@]}]='log'
118 fi
119 typeset -i i=0
120 while ((i < ${#POOLNAME[@]})); do

```

new/usr/src/test/zfs-tests/tests/functional/pool_names/pool_names_002_neg.ksh 3

```
121     log_mustnot $ZPOOL create -m $TESTDIR ${POOLNAME[$i]} $DISK
122     if poolexists ${POOLNAME[$i]}; then
123         log_fail "Unexpectedly created pool: '${POOLNAME[$i]}'"
124     fi
126     log_mustnot $ZPOOL destroy ${POOLNAME[$i]}
128     ((i += 1))
129 done
131 log_pass "Invalid names and characters were caught correctly"
```

new/usr/src/test/zfs-tests/tests/functional/poolversion/Makefile

1

868 Fri Nov 22 15:21:14 2013

new/usr/src/test/zfs-tests/tests/functional/poolversion/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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```

```
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/poolversion
```

```
21 PROGS = cleanup \
22         poolversion_001_pos \
23         poolversion_002_pos \
24         setup
```

```
26 CMDS = $(PROGS:%=$(TESTDIR)/%)
27 $(CMDS) := FILEMODE = 0555
```

```
29 all lint clean clobber:
```

```
31 install: $(CMDS)
```

```
33 $(CMDS): $(TESTDIR)
```

```
35 $(TESTDIR):
36     $(INS.dir)
```

```
38 $(TESTDIR)/%: %.ksh
39     $(INS.rename)
```

```
41 $(TESTDIR)/%: %
42     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/poolversion/cleanup.ksh

1

1205 Fri Nov 22 15:21:15 2013

new/usr/src/test/zfs-tests/tests/functional/poolversion/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 log_must $ZPOOL destroy $TESTPOOL
37 log_must $ZPOOL destroy $TESTPOOL2
38 #
39 log_must $RM /tmp/zpool_version_1.dat
40 log_must $RM /tmp/zpool2_version_1.dat
41 #
42 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/poolversion/poolversion_001_pos.ksh 1

```
*****
1621 Fri Nov 22 15:21:15 2013
new/usr/src/test/zfs-tests/tests/functional/poolversion/poolversion_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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*****
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # zpool set version can upgrade a pool
38 #
39 # STRATEGY:
40 # 1. Taking a version 1 pool
41 # 2. For all known versions, set the version of the pool using zpool set
42 # 3. Verify that pools version
43 #
44 #
45 verify_runnable "global"
46 log_assert "zpool set version can upgrade a pool"
47 for version in 1 2 3 4 5 6 7 8
48 do
49     log_must $ZPOOL set version=$version $TESTPOOL
50     ACTUAL=$(($ZPOOL get version $TESTPOOL | $GREP version \
51 | $AWK '{print $3}')
52     if [ "$ACTUAL" != "$version" ]
53     then
54         log_fail "v. $ACTUAL set for $TESTPOOL, expected v. $version!"
```

new/usr/src/test/zfs-tests/tests/functional/poolversion/poolversion_001_pos.ksh 2

```
55         fi
56     done
57 #
58 log_pass "zpool set version can upgrade a pool"
```

new/usr/src/test/zfs-tests/tests/functional/poolversion/poolversion_002_pos.ksh 1

```
*****
2175 Fri Nov 22 15:21:15 2013
new/usr/src/test/zfs-tests/tests/functional/poolversion/poolversion_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # zpool set version can only increment pool version
38 #
39 # STRATEGY:
40 # 1. Set a version 1 pool to be a version 6 pool
41 # 2. Verify it's set to version 6
42 # 3. Attempt to set prior versions
43 # 4. Verify it's still set to version 6
44 #
45 #
46 verify_runnable "global"
47 log_assert "zpool set version can only increment pool version"
48 #
49 log_must $ZPOOL set version=6 $TESTPOOL2
50 # verify it's actually that version - by checking the version property
51 # and also by trying to set bootfs (which should fail if it is not version 6)
52 #
53 VERSION=$(ZPOOL get version $TESTPOOL2 | $GREP version | $AWK '{print $3}')
54 if [ "$VERSION" != "6" ]
```

new/usr/src/test/zfs-tests/tests/functional/poolversion/poolversion_002_pos.ksh 2

```
55 then
56     log_fail "Version $VERSION set for $TESTPOOL2 expected version 6!"
57 fi
58 log_must $ZPOOL set bootfs=$TESTPOOL2 $TESTPOOL2
59 #
60 # now verify we can't downgrade the version
61 log_mustnot $ZPOOL set version=5 $TESTPOOL2
62 log_mustnot $ZPOOL set version=-1 $TESTPOOL2
63 #
64 # verify the version is still 6
65 VERSION=$(ZPOOL get version $TESTPOOL2 | $GREP version | $AWK '{print $3}')
66 if [ "$VERSION" != "6" ]
67 then
68     log_fail "Version $VERSION set for $TESTPOOL2, expected version 6!"
69 fi
70 #
71 log_pass "zpool set version can only increment pool version"
```

new/usr/src/test/zfs-tests/tests/functional/poolversion/setup.ksh

1

1348 Fri Nov 22 15:21:16 2013

new/usr/src/test/zfs-tests/tests/functional/poolversion/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 # create a version 1 pool
37 log_must $MKFILE 64m /tmp/zpool_version_1.dat
38 log_must $ZPOOL create -o version=1 $TESTPOOL /tmp/zpool_version_1.dat
39 #
40 #
41 # create another version 1 pool
42 log_must $MKFILE 64m /tmp/zpool2_version_1.dat
43 log_must $ZPOOL create -o version=1 $TESTPOOL2 /tmp/zpool2_version_1.dat
44 #
45 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/privilege/Makefile

1

862 Fri Nov 22 15:21:16 2013

new/usr/src/test/zfs-tests/tests/functional/privilege/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/privilege
```

```
21 PROGS = cleanup \
22         privilege_001_pos \
23         privilege_002_pos \
24         setup
```

```
26 CMDS = $(PROGS:%=$(TESTDIR)/%)
27 $(CMDS) := FILEMODE = 0555
```

```
29 all lint clean clobber:
```

```
31 install: $(CMDS)
```

```
33 $(CMDS): $(TESTDIR)
```

```
35 $(TESTDIR):
36     $(INS.dir)
```

```
38 $(TESTDIR)/%: %.ksh
39     $(INS.rename)
```

```
41 $(TESTDIR)/%: %
42     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/privilege/cleanup.ksh

1

1391 Fri Nov 22 15:21:16 2013

new/usr/src/test/zfs-tests/tests/functional/privilege/cleanup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 ZFS_USER=$(CAT /tmp/zfs-privs-test-user.txt)
37 USES_NIS=$(CAT /tmp/zfs-privs-test-nis.txt)
38 #
39 if [ "${USES_NIS}" == "true" ]
40 then
41     $SVCADM enable svc:/network/nis/client:default
42 fi
43 #
44 $USERDEL $ZFS_USER
45 [[ -d /export/home/$ZFS_USER ] && $RM -rf /export/home/$ZFS_USER
46 $RM /tmp/zfs-privs-test-nis.txt
47 $RM /tmp/zfs-privs-test-user.txt
48 #
49 default_cleanup
```

```

*****
3016 Fri Nov 22 15:21:17 2013
new/usr/src/test/zfs-tests/tests/functional/privilege/privilege_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # The RBAC profile "ZFS Storage Management" works
38 #
39 # STRATEGY:
40 # (create)
41 # 1. As a normal user, try to create a pool - which should fail.
42 # 2. Assign "ZFS Storage Management" profile, try to create pool again,
43 # which should succeed.
44 #
45 # (works well with other ZFS profile tests)
46 # 3. Attempt to create a ZFS filesystem, which should fail.
47 # 4. Add the "ZFS File System Management" profile, attempt to create a FS
48 # which should succeed.
49 #
50 # (destroy)
51 # 5. Remove the FS profile, then attempt to destroy the pool, which
52 # should succeed.
53 # 6. Remove the Storage profile, then attempt to recreate the pool, which
54 # should fail.

```

```

55 #
56 #
57 # We can only run this in the global zone
58 verify_runnable "global"
59 #
60 log_assert "The RBAC profile \"ZFS Storage Management\" works"
61 #
62 ZFS_USER=$(SCAT /tmp/zfs-privs-test-user.txt)
63 #
64 # the user shouldn't be able to do anything initially
65 log_mustnot $SU $ZFS_USER -c "$ZPOOL create $TESTPOOL $DISKS"
66 log_mustnot $SU $ZFS_USER -c "$PFEXEC $ZPOOL create $TESTPOOL $DISKS"
67 #
68 # the first time we assign the profile, we insist it should work
69 log_must $USERMOD -P "ZFS Storage Management" $ZFS_USER
70 log_must $SU $ZFS_USER -c "$PFEXEC $ZPOOL create -f $TESTPOOL $DISKS"
71 #
72 # ensure the user can't create a filesystem with this profile
73 log_mustnot $SU $ZFS_USER -c "$ZFS create $TESTPOOL/fs"
74 #
75 # add ZFS File System Management profile, and try to create a fs
76 log_must $USERMOD -P "ZFS File System Management" $ZFS_USER
77 log_must $SU $ZFS_USER -c "$PFEXEC $ZFS create $TESTPOOL/fs"
78 #
79 # revoke File System Management profile
80 $USERMOD -P, $ZFS_USER
81 $USERMOD -P "ZFS Storage Management" $ZFS_USER
82 #
83 # ensure the user can destroy pools
84 log_mustnot $SU $ZFS_USER -c "$ZPOOL destroy $TESTPOOL"
85 log_must $SU $ZFS_USER -c "$PFEXEC $ZPOOL destroy $TESTPOOL"
86 #
87 # revoke Storage Management profile
88 $USERMOD -P, $ZFS_USER
89 log_mustnot $SU $ZFS_USER -c "$PFEXEC $ZPOOL create -f $TESTPOOL $DISKS"
90 #
91 log_pass "The RBAC profile \"ZFS Storage Management\" works"

```

```

*****
3160 Fri Nov 22 15:21:17 2013
new/usr/src/test/zfs-tests/tests/functional/privilege/privilege_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # The RBAC profile "ZFS File System Management" works
38 #
39 # STRATEGY:
40 #
41 # The following actions are taken, both using profile execution (pfexec)
42 # and without profile execution - we make sure that the latter should
43 # always fail.
44 #
45 # (create)
46 # 1. As a normal user, try to create a filesystem - which should fail.
47 # 2. Assign "ZFS File System Management" profile, try to create fs again,
48 # which should succeed.
49 #
50 # (pools)
51 # 3. Ensure a user with this profile can't perform pool administration
52 # by attempting to destroy a pool.
53 #
54 # (destroy)

```

```

55 # 5. Remove the FS profile, then attempt to destroy the fs, which
56 # should fail.
57 # 6. Assign the FS profile, then attempt to destroy the fs, which
58 # should succeed.
59 #
60 #
61 verify_runnable "both"
62 #
63 log_assert "The RBAC profile \"ZFS File System Management\" works"
64 #
65 ZFS_USER=$(($CAT /tmp/zfs-privs-test-user.txt)
66 #
67 # Set a $DATASET where we can create child files systems
68 if is_global_zone; then
69 log_must $ZPOOL create -f $TESTPOOL $DISKS
70 DATASET=$TESTPOOL
71 else
72 DATASET=zonepool/zonectr0
73 fi
74 #
75 # A user shouldn't be able to create filesystems
76 log_mustnot $SU $ZFS_USER -c "$ZFS create $DATASET/zfsprivfs"
77 #
78 # Insist this invocation of usermod works
79 log_must $USERMOD -P "ZFS File System Management" $ZFS_USER
80 #
81 # Now try to create file systems as the user
82 log_mustnot $SU $ZFS_USER -c "$ZFS create $DATASET/zfsprivfs"
83 log_must $SU $ZFS_USER -c "$PFEXEC $ZFS create $DATASET/zfsprivfs"
84 #
85 # Ensure the user can't do anything to pools in this state:
86 log_mustnot $SU $ZFS_USER -c "$ZPOOL destroy $DATASET"
87 log_mustnot $SU $ZFS_USER -c "$PFEXEC $ZPOOL destroy $DATASET"
88 #
89 # revoke File System Management profile
90 $USERMOD -P, $ZFS_USER
91 #
92 # Ensure the user can't create more filesystems
93 log_mustnot $SU $ZFS_USER -c "$ZFS create $DATASET/zfsprivfs2"
94 log_mustnot $SU $ZFS_USER -c "$PFEXEC $ZFS create $DATASET/zfsprivfs2"
95 #
96 # assign the profile again and destroy the fs.
97 $USERMOD -P "ZFS File System Management" $ZFS_USER
98 log_must $SU $ZFS_USER -c "$PFEXEC $ZFS destroy $DATASET/zfsprivfs"
99 $USERMOD -P, $ZFS_USER
100 #
101 log_pass "The RBAC profile \"ZFS File System Management\" works"

```

new/usr/src/test/zfs-tests/tests/functional/privilege/setup.ksh 1

```
*****
1846 Fri Nov 22 15:21:18 2013
new/usr/src/test/zfs-tests/tests/functional/privilege/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
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27 #
28 #
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 ZFS_USER=zfsrbac
35 USES_NIS=false
36 #
37 # if we're running NIS, turn it off until we clean up
38 # (it can cause useradd to take a long time, hitting our TIMEOUT)
39 $SVCS svc:/network/nis/client:default | $GREP online > /dev/null
40 if [ $? -eq 0 ]
41 then
42     $SVCADM disable svc:/network/nis/client:default
43     USES_NIS=true
44 fi
45 #
46 #
47 # create a unique user that we can use to run the tests,
48 # making sure not to clobber any existing users.
49 FOUND=""
50 while [ -z "${FOUND}" ]
51 do
52     USER_EXISTS=$( grep $ZFS_USER /etc/passwd )
53     if [ ! -z "${USER_EXISTS}" ]
54     then
```

new/usr/src/test/zfs-tests/tests/functional/privilege/setup.ksh 2

```
55     ZFS_USER="${ZFS_USER}x"
56 else
57     FOUND="true"
58 fi
59 done
60 #
61 log_must $MKDIR -p /export/home/$ZFS_USER
62 log_must $USERADD -c "ZFS Privileges Test User" -d /export/home/$ZFS_USER $ZFS_U
63 #
64 echo $ZFS_USER > /tmp/zfs-privs-test-user.txt
65 echo $USES_NIS > /tmp/zfs-privs-test-nis.txt
66 #
67 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/quota/Makefile

1

977 Fri Nov 22 15:21:18 2013

new/usr/src/test/zfs-tests/tests/functional/quota/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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10 #
```

```
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/quota
```

```
21 PROGS = cleanup \
22         quota_001_pos \
23         quota_002_pos \
24         quota_003_pos \
25         quota_004_pos \
26         quota_005_pos \
27         quota_006_neg \
28         setup
```

```
30 FILES = quota.cfg \
31         quota.kshlib
```

```
33 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
34 $(CMDS) := FILEMODE = 0555
```

```
36 all lint clean clobber:
```

```
38 install: $(CMDS)
```

```
40 $(CMDS): $(TESTDIR)
```

```
42 $(TESTDIR):
43     $(INS.dir)
```

```
45 $(TESTDIR)/%: %.ksh
46     $(INS.rename)
```

```
48 $(TESTDIR)/%: %
49     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/quota/cleanup.ksh

1

1041 Fri Nov 22 15:21:18 2013

new/usr/src/test/zfs-tests/tests/functional/quota/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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26 #
27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_container_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota.cfg

1

1082 Fri Nov 22 15:21:18 2013

new/usr/src/test/zfs-tests/tests/functional/quota/quota.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export BLOCK_SIZE=8192
32 export QUOTA_VALUE=10000000
33 export TESTFILE1=file1
34 export TESTFILE2=file2
35 export TOLERANCE=131071
```

```

*****
2522 Fri Nov 22 15:21:19 2013
new/usr/src/test/zfs-tests/tests/functional/quota/quota.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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25 #
26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 . $STF_SUITE/tests/functional/quota/quota.cfg
32 #
33 # BLOCK_SIZE, QUOTA_VALUE and TOLERANCE set in quota.cfg
34 readonly EDQUOT=49
35 #
36 #
37 # Function to fill the quota of a zfs filesystem
38 #
39 # $1 - The File system or container to fill.
40 # $2 - The mountpoint to use.
41 #
42 function fill_quota
43 {
44     typeset FILESYSTEM="$1"
45     typeset MNTPT="$2"
46 #
47     log_must $ZFS set quota=$QUOTA_VALUE $FILESYSTEM
48 #
49     typeset -i write_size=0
50     (( write_size = 2 * QUOTA_VALUE ))
51 #
52     typeset -i zret=0
53     $FILE_WRITE -o create -f $MNTPT/$TESTFILE1 -b $BLOCK_SIZE \
54     -c $write_size -d 0

```

```

55     zret=$?
56     [[ $zret -ne EDQUOT ]] && \
57     log_fail "Returned error code: $zret. Expected: $EDQUOT."
58 #
59     typeset -i file_size='$LS -ls $MNTPT/$TESTFILE1 | $SAWK '{ print $1 }''
60     typeset -i limit=0
61     (( file_size = file_size * 512 ))
62     (( limit = QUOTA_VALUE + TOLERANCE ))
63     (( file_size > limit )) && \
64     log_fail "File was created larger than the quota value, aborting!!!"
65     return 0
66 }
67 #
68 #
69 # Function attempts to write another file in a ZFS filesystem
70 # that has already filled its quota
71 #
72 function exceed_quota
73 {
74     typeset FILESYSTEM="$1"
75     typeset MNTPT="$2"
76 #
77     log_must fill_quota $FILESYSTEM $MNTPT
78     typeset -i write_size=0
79     (( write_size = 2 * QUOTA_VALUE ))
80     typeset -i zret=0
81 #
82     # Writing a file without API to access return code
83 #
84     log_note "Creating a file in a FS that has already exceeded its quota"
85     $FILE_WRITE -o create -f $MNTPT/$TESTFILE2 \
86     -b $BLOCK_SIZE -c $write_size -d 0
87     zret=$?
88     [[ $zret -ne EDQUOT ]] && \
89     log_fail "Returned error code: $zret. Expected: EDQUOT."
90     return 0
91 }

```


new/usr/src/test/zfs-tests/tests/functional/quota/quota_001_pos.ksh 1

```
*****
2084 Fri Nov 22 15:21:19 2013
new/usr/src/test/zfs-tests/tests/functional/quota/quota_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/quota/quota.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # A ZFS file system quota limits the amount of pool space
39 # available to a file system. Apply a quota and verify
40 # that no more file creates are permitted.
41 #
42 # STRATEGY:
43 # 1) Apply quota to ZFS file system
44 # 2) Create a file which is larger than the set quota
45 # 3) Verify that the resulting file size is less than the quota limit
46 #
47 #
48 verify_runnable "both"
49 #
50 log_assert "Verify that file size is limited by the file system quota"
51 #
52 #
53 # cleanup to be used internally as otherwise quota assertions cannot be
54 # run independently or out of order
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_001_pos.ksh 2

```
55 #
56 function cleanup
57 {
58     [[ -e $TESTDIR/$TESTFILE1 ]] && \
59         log_must $RM $TESTDIR/$TESTFILE1
60     #
61     # Need to allow time for space to be released back to
62     # pool, otherwise next test will fail trying to set a
63     # quota which is less than the space used.
64     #
65     sleep 5
66 }
67 #
68 log_onexit cleanup
69 #
70 #
71 # Sets the quota value and attempts to fill it with a file
72 # twice the size of the quota
73 #
74 log_must fill_quota $TESTPOOL/$TESTFS $TESTDIR
75 #
76 log_pass "File size limited by quota"
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_002_pos.ksh 1

```
*****
2021 Fri Nov 22 15:21:20 2013
new/usr/src/test/zfs-tests/tests/functional/quota/quota_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/quota/quota.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # A zfs file system quota limits the amount of pool space
38 # available to a given ZFS file system. Once exceeded, it is impossible
39 # to write any more files to the file system.
40 #
41 # STRATEGY:
42 # 1) Apply quota to the ZFS file system
43 # 2) Exceed the quota
44 # 3) Attempt to write another file
45 # 4) Verify the attempt fails with error code 49 (EDQUOTA)
46 #
47 #
48 #
49 verify_runnable "both"
50 #
51 log_assert "Verify that a file write cannot exceed the file system quota"
52 #
53 #
54 # cleanup to be used internally as otherwise quota assertions cannot be
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_002_pos.ksh 2

```
55 # run independently or out of order
56 #
57 function cleanup
58 {
59     [[ -e $TESTDIR/$TESTFILE1 ]] && \
60         log_must $RM $TESTDIR/$TESTFILE1
61
62     [[ -e $TESTDIR/$TESTFILE2 ]] && \
63         log_must $RM $TESTDIR/$TESTFILE2
64 }
65 #
66 log_onexit cleanup
67 #
68 #
69 # Fills the quota & attempts to write another file
70 #
71 log_must exceed_quota $TESTPOOL/$TESTFS $TESTDIR
72 #
73 log_pass "Could not write file. Quota limit enforced as expected"
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_003_pos.ksh

1

```
*****
2241 Fri Nov 22 15:21:20 2013
new/usr/src/test/zfs-tests/tests/functional/quota/quota_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/quota/quota.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # A ZFS file system quota limits the amount of pool space
38 # available to a file system dataset. Apply a quota and verify
39 # that no more file creates are permitted.
40 #
41 # NOTE: This test applies to a dataset rather than a file system.
42 #
43 # STRATEGY:
44 # 1) Apply quota to ZFS file system dataset
45 # 2) Create a file which is larger than the set quota
46 # 3) Verify that the resulting file size is less than the quota limit
47 #
48 #
49 verify_runnable "both"
50 #
51 log_assert "Verify that file size is limited by the file system quota" \
52 "(dataset version)"
53 #
54 #
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_003_pos.ksh

2

```
55 # cleanup to be used internally as otherwise quota assertions cannot be
56 # run independently or out of order
57 #
58 function cleanup
59 {
60     [[ -e $TESTDIR1/$TESTFILE1 ]] && \
61         log_must $RM $TESTDIR1/$TESTFILE1
62 #
63 #
64 # Need to allow time for space to be released back to
65 # pool, otherwise next test will fail trying to set a
66 # quota which is less than the space used.
67 #
68     sleep 5
69 }
70 #
71 log_onexit cleanup
72 #
73 #
74 # Sets the quota value and attempts to fill it with a file
75 # twice the size of the quota
76 #
77 log_must fill_quota $TESTPOOL/$TESTCTR/$TESTFS1 $TESTDIR1
78 #
79 log_pass "File size limited by quota"
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_004_pos.ksh 1

```
*****
2078 Fri Nov 22 15:21:20 2013
new/usr/src/test/zfs-tests/tests/functional/quota/quota_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/quota/quota.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # A zfs file system quota limits the amount of pool space
38 # available to a given ZFS file system dataset. Once exceeded, it
39 # is impossible to write any more files to the file system.
40 #
41 # STRATEGY:
42 # 1) Apply quota to the ZFS file system dataset
43 # 2) Exceed the quota
44 # 3) Attempt to write another file
45 # 4) Verify the attempt fails with error code 49 (EDQUOTA)
46 #
47 #
48 #
49 verify_runnable "both"
50 #
51 log_assert "Verify that a file write cannot exceed the file system quota" \
52 "(dataset version)"
53 #
54 #
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_004_pos.ksh 2

```
55 # cleanup to be used internally as otherwise quota assertions cannot be
56 # run independently or out of order
57 #
58 function cleanup
59 {
60     [[ -e $TESTDIR1/$TESTFILE1 ]] && \
61         log_must $RM $TESTDIR1/$TESTFILE1
62
63     [[ -e $TESTDIR1/$TESTFILE2 ]] && \
64         log_must $RM $TESTDIR1/$TESTFILE2
65 }
66 #
67 log_onexit cleanup
68 #
69 #
70 # Fills the quota & attempts to write another file
71 #
72 log_must exceed_quota $TESTPOOL/$TESTCTR/$TESTFS1 $TESTDIR1
73 #
74 log_pass "Could not write file. Quota limit enforced as expected"
```

```

*****
2106 Fri Nov 22 15:21:20 2013
new/usr/src/test/zfs-tests/tests/functional/quota/quota_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/quota/quota.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Verify that quota doesn't inherit its value from parent.
39 #
40 # STRATEGY:
41 # 1) Set quota for parents
42 # 2) Create a filesystem tree
43 # 3) Verify that the 'quota' for descendent doesnot inherit the value.
44 #
45 #####
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     datasetexists $fs_child && \
52         log_must $ZFS destroy $fs_child
53 #
54     log_must $ZFS set quota=$quota_val $fs

```

```

55 }
56 #
57 log_onexit cleanup
58 #
59 log_assert "Verify that quota doesnot inherit its value from parent."
60 log_onexit cleanup
61 #
62 fs=$TESTPOOL/$TESTFS
63 fs_child=$TESTPOOL/$TESTFS/$TESTFS
64 #
65 space_avail=$(get_prop available $fs)
66 quota_val=$(get_prop quota $fs)
67 typeset -i quotasize=$space_avail
68 ((quotasize = quotasize * 2 ))
69 log_must $ZFS set quota=$quotasize $fs
70 #
71 log_must $ZFS create $fs_child
72 quota_space=$(get_prop quota $fs_child)
73 [[ $quota_space == $quotasize ]] && \
74     log_fail "The quota of child dataset inherits its value from parent."
75 #
76 log_pass "quota doesnot inherit its value from parent as expected."

```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_006_neg.ksh 1

```
*****
2076 Fri Nov 22 15:21:21 2013
new/usr/src/test/zfs-tests/tests/functional/quota/quota_006_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/quota/quota.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Can't set a quota to less than currently being used by the dataset.
39 #
40 # STRATEGY:
41 # 1) Create a filesystem
42 # 2) Set a quota on the filesystem that is lower than the space
43 #    currently in use.
44 # 3) Verify that the attempt fails.
45 #
46 #
47 verify_runnable "both"
48 #
49 log_assert "Verify cannot set quota lower than the space currently in use"
50 #
51 function cleanup
52 {
53     log_must $ZFS set quota=none $TESTPOOL/$TESTFS
54 }
```

new/usr/src/test/zfs-tests/tests/functional/quota/quota_006_neg.ksh 2

```
56 log_onexit cleanup
57 #
58 typeset -i quota_integer_size=0
59 typeset invalid_size="123! @456 7#89 0\$ abc123% 123%s 12%3 %c123 123%d %x123 1
60 ^def456 789&ghi"
61 typeset -i space_used=`get_prop used $TESTPOOL/$TESTFS`
62 (( quota_integer_size = space_used - 1 ))
63 quota_fp_size=${quota_integer_size}.123
64 #
65 for size in 0 -1 $quota_integer_size -$quota_integer_size $quota_fp_size -$quota
66     $invalid_size ; do
67     log_mustnot $ZFS set quota=$size $TESTPOOL/$TESTFS
68 done
69 log_must $ZFS set quota=$space_used $TESTPOOL/$TESTFS
70 #
71 log_pass "As expected cannot set quota lower than space currently in use"
```

new/usr/src/test/zfs-tests/tests/functional/quota/setup.ksh

1

1064 Fri Nov 22 15:21:21 2013

new/usr/src/test/zfs-tests/tests/functional/quota/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_container_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/redundancy/Makefile

1

978 Fri Nov 22 15:21:21 2013

new/usr/src/test/zfs-tests/tests/functional/redundancy/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/redundancy
```

```
21 PROGS = cleanup \
22         redundancy_001_pos \
23         redundancy_002_pos \
24         redundancy_003_pos \
25         redundancy_004_neg \
26         setup
```

```
28 FILES = redundancy.cfg \
29         redundancy.kshlib
```

```
31 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
32 $(CMDS) := FILEMODE = 0555
```

```
34 all lint clean clobber:
```

```
36 install: $(CMDS)
```

```
38 $(CMDS): $(TESTDIR)
```

```
40 $(TESTDIR):
41     $(INS.dir)
```

```
43 $(TESTDIR)/%: %.ksh
44     $(INS.rename)
```

```
46 $(TESTDIR)/%: %
47     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/redundancy/cleanup.ksh

1

1083 Fri Nov 22 15:21:22 2013

new/usr/src/test/zfs-tests/tests/functional/redundancy/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/tests/functional/redundancy/redundancy.kshlib
33 #
34 verify_runnable "global"
35 #
36 cleanup
37 #
38 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy.cfg

1

1204 Fri Nov 22 15:21:22 2013

new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy.cfg

4206 history_003_pos relies on exact size of history log and entries

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export BASEDIR=/var/tmp/basedir.$$
32 export TESTFILE=testfile.$$
33 #
34 export PRE_RECORD_FILE=$BASEDIR/pre-record-file.$$
35 export PST_RECORD_FILE=$BASEDIR/pst-record-file.$$
36 #
37 export DEV_SIZE=64M
38 #
39 export BLOCKSZ=$(( 1024 * 1024 ))
40 export NUM_WRITES=40
```

```

*****
6854 Fri Nov 22 15:21:22 2013
new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy.kshlib
4206 history_003_pos relies on exact size of history log and entries
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30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/redundancy/redundancy.cfg
33 #
34 function cleanup
35 {
36     if poolexists $TESTPOOL; then
37         destroy_pool $TESTPOOL
38     fi
39     typeset dir
40     for dir in $TESTDIR $BASEDIR; do
41         if [[ -d $dir ]]; then
42             log_must $RM -rf $dir
43         fi
44     done
45 }
46 #
47 #
48 # Get random number between min and max number.
49 #
50 # $1 Minimal value
51 # $2 Maximal value
52 #
53 function random
54 {

```

```

55     typeset -i min=$1
56     typeset -i max=$2
57     typeset -i value
58 #
59     while true; do
60         ((value = RANDOM % (max + 1)))
61         if ((value >= min)); then
62             break
63         fi
64     done
65 #
66     $ECHO $value
67 }
68 #
69 #
70 # Record the directories construction and checksum all the files which reside
71 # within the specified pool
72 #
73 # $1 The specified pool
74 # $2 The file which save the record.
75 #
76 function record_data
77 {
78     typeset pool=$1
79     typeset recordfile=$2
80 #
81     [[ -z $pool ]] && log_fail "No specified pool."
82     [[ -f $recordfile ]] && log_must $RM -f $recordfile
83 #
84     typeset mntpnt
85     mntpnt=$(get_prop mountpoint $pool)
86     log_must eval "$DU -a $mntpnt > $recordfile 2>&1"
87     #
88     # When the data was damaged, checksum is failing and return 1
89     # So, will not use log_must
90     #
91     $FIND $mntpnt -type f -exec $CKSUM {} + >> $recordfile 2>&1
92 }
93 #
94 #
95 # Create test pool and fill with files and directories.
96 #
97 # $1 pool name
98 # $2 pool type
99 # $3 virtual devices number
100 #
101 function setup_test_env
102 {
103     typeset pool=$1
104     typeset keyword=$2
105     typeset -i vdev_cnt=$3
106     typeset vdevs
107 #
108     typeset -i i=0
109     while (( i < vdev_cnt )); do
110         vdevs="$vdevs $BASEDIR/vdev$i"
111         ((i += 1))
112     done
113 #
114     if [[ ! -d $BASEDIR ]]; then
115         log_must $MKDIR $BASEDIR
116     fi
117 #
118     if poolexists $pool ; then
119         destroy_pool $pool
120     fi

```

```

122     log_must $MKFILE $DEV_SIZE $vdevs
124     log_must $ZPOOL create -m $TESTDIR $pool $keyword $vdevs
126     log_note "Filling up the filesystem ..."
127     typeset -i ret=0
128     typeset -i i=0
129     typeset file=$TESTDIR/file
130     while $TRUE ; do
131         $FILE_WRITE -o create -f $file.$i \
132             -b $BLOCKSZ -c $NUM_WRITES
133         ret=$?
134         (( $ret != 0 )) && break
135         (( i = i + 1 ))
136     done
137     (( $ret != 28 )) && log_note "$FILE_WRITE return value($ret) is unexpecte
139     record_data $TESTPOOL $PRE_RECORD_FILE
140 }
142 #
143 # Check pool status is healthy
144 #
145 # $1 pool
146 #
147 function is_healthy
148 {
149     typeset pool=$1
151     typeset healthy_output="pool '$pool' is healthy"
152     typeset real_output=$( $ZPOOL status -x $pool )
154     if [[ "$real_output" == "$healthy_output" ]]; then
155         return 0
156     else
157         typeset -i ret
158         $ZPOOL status -x $pool | $GREP "state:" | \
159             $GREP "FAULTED" >/dev/null 2>&1
160         ret=$?
161         (( $ret == 0 )) && return 1
162         typeset l_scan
163         typeset errnum
164         l_scan=$( $ZPOOL status -x $pool | $GREP "scan:" )
165         l_scan=${l_scan##*"with"}
166         errnum=$( $ECHO $l_scan | $AWK '{print $1}' )
168         return $errnum
169     fi
170 }
172 #
173 # Check pool data is valid
174 #
175 # $1 pool
176 #
177 function is_data_valid
178 {
179     typeset pool=$1
181     record_data $pool $PST_RECORD_FILE
182     if ! $DIFF $PRE_RECORD_FILE $PST_RECORD_FILE > /dev/null 2>&1; then
183         return 1
184     fi
186     return 0

```

```

187 }
189 #
190 # Get the specified count devices name
191 #
192 # $1 pool name
193 # $2 devices count
194 #
195 function get_vdevs #pool cnt
196 {
197     typeset pool=$1
198     typeset -i cnt=$2
200     typeset all_devs=$( $ZPOOL iostat -v $pool | $AWK '{print $1}' | \
201         $EGREP -v "^pool$" ^capacity$ ^mirror$ ^raidz1$ ^raidz2$ |--- | \
202         $EGREP -v "/old$|^$pool$" )
203     typeset -i i=0
204     typeset vdevs
205     while (( i < cnt )); do
206         typeset dev=$( $ECHO $all_devs | $AWK '{print $1}' )
207         eval all_devs=${all_devs##*$dev}
209         vdevs="$dev $vdevs"
210         (( i += 1 ))
211     done
213     $ECHO "$vdevs"
214 }
216 #
217 # Synchronize all the data in pool
218 #
219 # $1 pool name
220 #
221 function sync_pool #pool
222 {
223     typeset pool=$1
225     log_must $SYNC
226     log_must $SLEEP 2
227     # Flush all the pool data.
228     typeset -i ret
229     $ZPOOL scrub $pool >/dev/null 2>&1
230     ret=$?
231     (( $ret != 0 )) && \
232         log_fail "$ZPOOL scrub $pool failed."
234     while ! is_pool_scrubbed $pool; do
235         if is_pool_resilvered $pool ; then
236             log_fail "$pool should not be resilver completed."
237         fi
238         log_must $SLEEP 2
239     done
240 }
242 #
243 # Create and replace the same name virtual device files
244 #
245 # $1 pool name
246 # $2-n virtual device files
247 #
248 function replace_missing_devs
249 {
250     typeset pool=$1
251     shift

```

```

253     typeset vdev
254     for vdev in $@; do
255         log_must $MKFILE $DEV_SIZE $vdev
256         log_must $ZPOOL replace -f $pool $vdev $vdev
257         while true; do
258             if ! is_pool_resilvered $pool ; then
259                 log_must $SLEEP 2
260             else
261                 break
262             fi
263         done
264     done
265 }

267 #
268 # Damage the pool's virtual device files.
269 #
270 # $1 pool name
271 # $2 Failing devices count
272 # $3 damage vdevs method, if not null, we keep
273 #   the label for the vdevs
274 #
275 function damage_devs
276 {
277     typeset pool=$1
278     typeset -i cnt=$2
279     typeset label="$3"
280     typeset vdevs
281     typeset -i bs_count

283     vdevs=$(get_vdevs $pool $cnt)
284     if [[ -n $label ]]; then
285         typeset dev
286         for dev in $vdevs; do
287             bs_count=$(($LS -l $dev | $AWK '{print $5}')
288             (( bs_count = bs_count/1024 - 512 ))
289             $DD if=/dev/zero of=$dev seek=512 bs=1024 \
290                 count=$bs_count conv=notrunc >/dev/null 2>&1
291         done
292     else
293         log_must $MKFILE $DEV_SIZE $vdevs
294     fi

296     sync_pool $pool
297 }

299 #
300 # Clear errors in the pool caused by data corruptions
301 #
302 # $1 pool name
303 #
304 function clear_errors
305 {
306     typeset pool=$1

308     log_must $ZPOOL clear $pool

310     if ! is_healthy $pool ; then
311         log_note "$pool should be healthy."
312         return 1
313     fi
314     if ! is_data_valid $pool ; then
315         log_note "Data should be valid in $pool."
316         return 1
317     fi

```

```

319         return 0
320     }

322 #
323 # Remove the specified pool's virtual device files
324 #
325 # $1 Pool name
326 # $2 Missing devices count
327 #
328 function remove_devs
329 {
330     typeset pool=$1
331     typeset -i cnt=$2
332     typeset vdevs

334     vdevs=$(get_vdevs $pool $cnt)
335     log_must $RM -f $vdevs

337     sync_pool $pool
338 }

340 #
341 # Recover the bad or missing device files in the pool
342 #
343 # $1 Pool name
344 # $2 Missing devices count
345 #
346 function recover_bad_missing_devs
347 {
348     typeset pool=$1
349     typeset -i cnt=$2
350     typeset vdevs

352     vdevs=$(get_vdevs $pool $cnt)
353     replace_missing_devs $pool $vdevs

355     if ! is_healthy $pool ; then
356         log_note "$pool should be healthy."
357         return 1
358     fi
359     if ! is_data_valid $pool ; then
360         log_note "Data should be valid in $pool."
361         return 1
362     fi

364     return 0
365 }

```

```

*****
2130 Fri Nov 22 15:21:23 2013
new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/tests/functional/redundancy/redundancy.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     A raidz pool can withstand at most 1 device failing or missing.
37 #
38 # STRATEGY:
39 #     1. Create N(>2,<5) virtual disk files.
40 #     2. Create raidz pool based on the virtual disk files.
41 #     3. Fill the filesystem with directories and files.
42 #     4. Record all the files and directories checksum information.
43 #     5. Damaged one of the virtual disk file.
44 #     6. Verify the data is correct to prove raidz can withstand 1 device is
45 #        failing.
46 #
47 #
48 verify_runnable "global"
49 #
50 log_assert "Verify raidz pool can withstand one device is failing."
51 log_onexit cleanup
52 #
53 typeset -i cnt=$((random 2 5))
54 setup_test_env $TESTPOOL raidz $cnt

```

```

56 #
57 # Inject data corruption error for raidz pool
58 #
59 damage_devs $TESTPOOL 1 "label"
60 log_must is_data_valid $TESTPOOL
61 log_must clear_errors $TESTPOOL
62 #
63 #
64 # Inject bad device error for raidz pool
65 #
66 damage_devs $TESTPOOL 1
67 log_must is_data_valid $TESTPOOL
68 log_must recover_bad_missing_devs $TESTPOOL 1
69 #
70 #
71 # Inject missing device error for raidz pool
72 #
73 remove_devs $TESTPOOL 1
74 log_must is_data_valid $TESTPOOL
75 #
76 log_pass "Raidz pool can withstand one devices is failing passed."

```

new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_002_pos.ksh 1

```
*****
2280 Fri Nov 22 15:21:23 2013
new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/redundancy/redundancy.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     A raidz2 pool can withstand 2 devices are failing or missing.
37 #
38 # STRATEGY:
39 #     1. Create N(>3,<5) virtual disk files.
40 #     2. Create raidz2 pool based on the virtual disk files.
41 #     3. Fill the filesystem with directories and files.
42 #     4. Record all the files and directories checksum information.
43 #     5. Damaged at most two of the virtual disk files.
44 #     6. Verify the data is correct to prove raidz2 can withstand 2 devices
45 #        are failing.
46 #
47 #
48 verify_runnable "global"
49 #
50 log_assert "Verify raidz2 pool can withstand two devices are failing."
51 log_onexit cleanup
52 #
53 typeset -i cnt=$(random 3 5)
54 setup_test_env $TESTPOOL raidz2 $cnt
```

new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_002_pos.ksh 2

```
56 #
57 # Inject data corruption errors for raidz2 pool
58 #
59 for i in 1 2; do
60     damage_devs $TESTPOOL $i "label"
61     log_must is_data_valid $TESTPOOL
62     log_must clear_errors $TESTPOOL
63 done
64 #
65 #
66 # Inject bad devices errors for raidz2 pool
67 #
68 for i in 1 2; do
69     damage_devs $TESTPOOL $i
70     log_must is_data_valid $TESTPOOL
71     log_must recover_bad_missing_devs $TESTPOOL $i
72 done
73 #
74 #
75 # Inject missing device errors for raidz2 pool
76 #
77 for i in 1 2; do
78     remove_devs $TESTPOOL $i
79     log_must is_data_valid $TESTPOOL
80     log_must recover_bad_missing_devs $TESTPOOL $i
81 done
82 #
83 log_pass "Raidz2 pool can withstand two devices are failing passed."
```

```

*****
2424 Fri Nov 22 15:21:23 2013
new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/tests/functional/redundancy/redundancy.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     A mirrored pool can withstand N-1 device are failing or missing.
37 #
38 # STRATEGY:
39 #     1. Create N(>2,<5) virtual disk files.
40 #     2. Create mirror pool based on the virtual disk files.
41 #     3. Fill the filesystem with directories and files.
42 #     4. Record all the files and directories checksum information.
43 #     5. Damaged at most N-1 of the virtual disk files.
44 #     6. Verify the data are correct to prove mirror can withstand N-1 devices
45 #        are failing.
46 #
47 #
48 verify_runnable "global"
49 #
50 log_assert "Verify mirrored pool can withstand N-1 devices are failing or missin
51 log_onexit cleanup
52 #
53 typeset -i cnt=$(random 2 5)
54 setup_test_env $TESTPOOL mirror $cnt

```

```

56 typeset -i i=1
57 #
58 #
59 # Inject data corruption errors for mirrored pool
60 #
61 while (( i < cnt )); do
62     damage_devs $TESTPOOL $i "label"
63     log_must is_data_valid $TESTPOOL
64     log_must clear_errors $TESTPOOL
65 #
66     (( i +=1 ))
67 done
68 #
69 #
70 # Inject bad devices errors for mirrored pool
71 #
72 i=1
73 while (( i < cnt )); do
74     damage_devs $TESTPOOL $i
75     log_must is_data_valid $TESTPOOL
76     log_must recover_bad_missing_devs $TESTPOOL $i
77 #
78     (( i +=1 ))
79 done
80 #
81 #
82 # Inject missing device errors for mirrored pool
83 #
84 i=1
85 while (( i < cnt )); do
86     remove_devs $TESTPOOL $i
87     log_must is_data_valid $TESTPOOL
88     log_must recover_bad_missing_devs $TESTPOOL $i
89 #
90     (( i +=1 ))
91 done
92 #
93 log_pass "Mirrored pool can withstand N-1 devices failing as expected."

```


new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_004_neg.ksh 1

```
*****
1900 Fri Nov 22 15:21:24 2013
new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_004_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/redundancy/redundancy.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Striped pool have no data redundancy. Any device errors will
37 #     cause data corruption.
38 #
39 # STRATEGY:
40 #     1. Create N virtual disk file.
41 #     2. Create stripe pool based on the virtual disk files.
42 #     3. Fill the filesystem with directories and files.
43 #     4. Record all the files and directories checksum information.
44 #     5. Damage one of the virtual disk file.
45 #     6. Verify the data is error.
46 #
47 #
48 verify_runnable "global"
49 #
50 log_assert "Verify striped pool have no data redundancy."
51 log_onexit cleanup
52 #
53 typeset -i cnt=$((random 2 5))
54 setup_test_env $TESTPOOL "" $cnt
```

new/usr/src/test/zfs-tests/tests/functional/redundancy/redundancy_004_neg.ksh 2

```
56 damage_devs $TESTPOOL 1 "keep_label"
57 log_must $ZPOOL clear $TESTPOOL
58 #
59 # Wait for the scrub intiated by the clear to wrap, or is_healthy will be wrong.
60 while ! is_pool_scrubbed $TESTPOOL; do
61     sync
62 done
63 #
64 log_mustnot is_healthy $TESTPOOL
65 #
66 log_pass "Striped pool has no data redundancy as expected."
```

new/usr/src/test/zfs-tests/tests/functional/redundancy/setup.ksh

1

1050 Fri Nov 22 15:21:24 2013

new/usr/src/test/zfs-tests/tests/functional/redundancy/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/refquota/Makefile

1

939 Fri Nov 22 15:21:25 2013

new/usr/src/test/zfs-tests/tests/functional/refquota/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/refquota
```

```
21 PROGS = cleanup \
22         refquota_001_pos \
23         refquota_002_pos \
24         refquota_003_pos \
25         refquota_004_pos \
26         refquota_005_pos \
27         refquota_006_neg \
28         setup
```

```
30 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
31 $(CMDS) := FILEMODE = 0555
```

```
33 all lint clean clobber:
```

```
35 install: $(CMDS)
```

```
37 $(CMDS): $(TESTDIR)
```

```
39 $(TESTDIR):
```

```
40     $(INS.dir)
```

```
42 $(TESTDIR)/%: %.ksh
```

```
43     $(INS.rename)
```

```
45 $(TESTDIR)/%: %
```

```
46     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/refquota/cleanup.ksh

1

1054 Fri Nov 22 15:21:25 2013

new/usr/src/test/zfs-tests/tests/functional/refquota/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "both"
35 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_001_pos.ksh 1

```
*****
2217 Fri Nov 22 15:21:25 2013
new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     refquota limits the amount of space a dataset can consume, but does
37 #     not include space used by descendents.
38 #
39 # STRATEGY:
40 #     1. Setting refquota in given filesystem
41 #     2. Create descendent filesystem
42 #     3. Verify refquota limits the amount of space a dataset can consume
43 #     4. Verify the limit does not impact descendents
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
51     log_must $ZFS create $TESTPOOL/$TESTFS
52     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
53 }
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_001_pos.ksh 2

```
55 log_assert "refquota limits the amount of space a dataset can consume, " \
56     "but does not include space used by descendents."
57 log_onexit cleanup
58 #
59 fs=$TESTPOOL/$TESTFS
60 sub=$fs/sub
61 log_must $ZFS create $sub
62 #
63 log_must $ZFS set refquota=10M $fs
64 mntpnt=$(get_prop mountpoint $fs)
65 #
66 log_mustnot $MKFILE 11M $mntpnt/file
67 log_must $MKFILE 9M $mntpnt/file
68 log_must $ZFS snapshot $fs@snap
69 log_mustnot $MKFILE 2M $mntpnt/file2
70 #
71 mntpnt=$(get_prop mountpoint $sub)
72 log_must $MKFILE 10M $mntpnt/file
73 log_must $ZFS snapshot $sub@snap
74 log_must $MKFILE 10 $mntpnt/file2
75 #
76 log_pass "refquota limits the amount of space a dataset can consume, " \
77     "but does not include space used by descendents."
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_002_pos.ksh 1

```
*****
2552 Fri Nov 22 15:21:26 2013
new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     Quotas are enforced using the minimum of the two properties:
37 #     quota & refquota
38 #
39 # STRATEGY:
40 #     1. Set value for quota and refquota. Quota less than refquota.
41 #     2. Creating file which should be limited by quota.
42 #     3. Switch the value of quota and refquota.
43 #     4. Verify file should be limited by refquota.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
51     log_must $ZFS create $TESTPOOL/$TESTFS
52     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
53 }
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_002_pos.ksh 2

```
55 log_assert "Quotas are enforced using the minimum of the two properties"
56 log_onexit cleanup
57 #
58 TESTFILE='testfile'
59 fs=$TESTPOOL/$TESTFS
60 log_must $ZFS set quota=15M $fs
61 log_must $ZFS set refquota=25M $fs
62 #
63 mntpnt=$(get_prop mountpoint $fs)
64 log_mustnot $MKFILE 20M $mntpnt/$TESTFILE
65 typeset -i used quota
66 used=$(get_prop used $fs)
67 quota=$(get_prop quota $fs)
68 ((used = used / (1024 * 1024)))
69 ((quota = quota / (1024 * 1024)))
70 if [[ $used -ne $quota ]]; then
71     log_fail "ERROR: $used -ne $quota Quotas are not limited by quota"
72 fi
73 #
74 #
75 # Switch the value of them and try again
76 #
77 log_must $RM $mntpnt/$TESTFILE
78 log_must $ZFS set quota=25M $fs
79 log_must $ZFS set refquota=15M $fs
80 #
81 log_mustnot $MKFILE 20M $mntpnt/$TESTFILE
82 used=$(get_prop used $fs)
83 refquota=$(get_prop refquota $fs)
84 ((used = used / (1024 * 1024)))
85 ((refquota = refquota / (1024 * 1024)))
86 if [[ $used -ne $refquota ]]; then
87     log_fail "ERROR: $used -ne $refquota Quotas are not limited by refquota"
88 fi
89 #
90 log_pass "Quotas are enforced using the minimum of the two properties"
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_003_pos.ksh 1

```
*****
2409 Fri Nov 22 15:21:26 2013
new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     Sub-filesystem quotas are not enforced by property 'refquota'
37 #
38 # STRATEGY:
39 #     1. Setting quota and refquota for parent. refquota < quota
40 #     2. Verify sub-filesystem will not be limited by refquota
41 #     3. Verify sub-filesystem will only be limited by quota
42 #
43 #
44 verify_runnable "both"
45 #
46 function cleanup
47 {
48     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
49     log_must $ZFS create $TESTPOOL/$TESTFS
50     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
51 }
52 #
53 log_assert "Sub-filesystem quotas are not enforced by property 'refquota'"
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_003_pos.ksh 2

```
56 TESTFILE='testfile'
57 fs=$TESTPOOL/$TESTFS
58 log_must $ZFS set quota=25M $fs
59 log_must $ZFS set refquota=10M $fs
60 log_must $ZFS create $fs/subfs
61 #
62 mntpnt=$(get_prop mountpoint $fs/subfs)
63 log_must $MKFILE 20M $mntpnt/$TESTFILE
64 #
65 typeset -i used quota refquota
66 used=$(get_prop used $fs)
67 refquota=$(get_prop refquota $fs)
68 ((used = used / (1024 * 1024)))
69 ((refquota = refquota / (1024 * 1024)))
70 if [[ $used -lt $refquota ]]; then
71     log_fail "ERROR: $used < $refquota subfs quotas are limited by refquota"
72 fi
73 #
74 log_mustnot $MKFILE 20M $mntpnt/$TESTFILE.2
75 used=$(get_prop used $fs)
76 quota=$(get_prop quota $fs)
77 ((used = used / (1024 * 1024)))
78 ((quota = quota / (1024 * 1024)))
79 if [[ $used -gt $quota ]]; then
80     log_fail "ERROR: $used > $quota subfs quotas aren't limited by quota"
81 fi
82 #
83 log_pass "Sub-filesystem quotas are not enforced by property 'refquota'"
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_004_pos.ksh 1

```
*****
1939 Fri Nov 22 15:21:26 2013
new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     refquotas are not limited by snapshots.
37 #
38 # STRATEGY:
39 #     1. Setting refquota < quota
40 #     2. Create file in filesystem, take snapshot and remove the file
41 #     3. Verify snapshot will not consume refquota
42 #
43 #
44 verify_runnable "both"
45 #
46 function cleanup
47 {
48     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
49     log_must $ZFS create $TESTPOOL/$TESTFS
50     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
51 }
52 #
53 log_assert "refquotas are not limited by snapshots."
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_004_pos.ksh 2

```
56 TESTFILE='testfile'
57 fs=$TESTPOOL/$TESTFS
58 log_must $ZFS set quota=25M $fs
59 log_must $ZFS set refquota=15M $fs
60 #
61 mntpnt=$(get_prop mountpoint $fs)
62 typeset -i i=0
63 while ((i < 3)); do
64     log_must $MKFILE 7M $mntpnt/$TESTFILE.$i
65     log_must $ZFS snapshot $fs@snap.$i
66     log_must $RM $mntpnt/$TESTFILE.$i
67 #
68     ((i += 1))
69 done
70 #
71 #
72 # Verify out of the limitation of 'quota'
73 #
74 log_mustnot $MKFILE 7M $mntpnt/$TESTFILE
75 #
76 log_pass "refquotas are not limited by snapshots."
```


new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_005_pos.ksh

1

```
*****
2056 Fri Nov 22 15:21:27 2013
new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     refquotas are not limited by sub-filesystem snapshots.
37 #
38 # STRATEGY:
39 #     1. Setting refquota < quota for parent
40 #     2. Create file in sub-filesystem, take snapshot and remove the file
41 #     3. Verify sub-filesystem snapshot will not consume refquota
42 #
43 #
44 verify_runnable "both"
45 #
46 function cleanup
47 {
48     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
49     log_must $ZFS create $TESTPOOL/$TESTFS
50     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
51 }
52 #
53 log_assert "refquotas are not limited by sub-filesystem snapshots."
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_005_pos.ksh

2

```
56 TESTFILE='testfile'
57 fs=$TESTPOOL/$TESTFS
58 log_must $ZFS set quota=25M $fs
59 log_must $ZFS set refquota=15M $fs
60 log_must $ZFS create $fs/subfs
61 #
62 mntpnt=$(get_prop mountpoint $fs/subfs)
63 typeset -i i=0
64 while ((i < 3)); do
65     log_must $MKFILE 7M $mntpnt/$TESTFILE.$i
66     log_must $ZFS snapshot $fs/subfs@snap.$i
67     log_must $RM $mntpnt/$TESTFILE.$i
68 #
69     ((i += 1))
70 done
71 #
72 #
73 # Verify out of the limitation of 'quota'
74 #
75 log_mustnot $MKFILE 7M $mntpnt/$TESTFILE
76 #
77 log_pass "refquotas are not limited by sub-filesystem snapshots"
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_006_neg.ksh 1

```
*****
1920 Fri Nov 22 15:21:27 2013
new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_006_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     'zfs set refquota/refreserv' can handle incorrect arguments correctly.
37 #
38 # STRATEGY:
39 #     1. Setup incorrect arguments arrays.
40 #     2. Set the bad argument to refquota.
41 #     3. Verify zfs can handle it correctly.
42 #
43 #
44 verify_runnable "both"
45 #
46 function cleanup
47 {
48     log_must $ZFS set refquota=none $TESTPOOL/$TESTFS
49     log_must $ZFS set refreserv=none $TESTPOOL/$TESTFS
50 }
51 #
52 log_assert "'zfs set refquota' can handle incorrect arguments correctly."
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/refquota/refquota_006_neg.ksh 2

```
55 set -A badopt \
56     "None"          "-1"          "1TT"          "%5"          \
57     "123!"         "@456"         "7#89"         "0\$"         \
58     "abc123%"      "123%s"       "12%s3"        "%c123"       \
59     "123%d"        "%x123"       "12%p3"        "^def456"     \
60     "\0"           "x0"
61 #
62 typeset -i i=0
63 while ((i < ${#badopt[@]})); do
64     log_mustnot $ZFS set refquota=${badopt[$i]} $TESTPOOL/$TESTFS
65     log_mustnot $ZFS set refreserv=${badopt[$i]} $TESTPOOL/$TESTFS
66
67     ((i += 1))
68 done
69 #
70 log_pass "'zfs set refquota' can handle incorrect arguments correctly."
```

new/usr/src/test/zfs-tests/tests/functional/refquota/setup.ksh

1

1076 Fri Nov 22 15:21:27 2013

new/usr/src/test/zfs-tests/tests/functional/refquota/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

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Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "both"
35 DISK=${DISKS% *}
36 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/Makefile

1

972 Fri Nov 22 15:21:28 2013

new/usr/src/test/zfs-tests/tests/functional/refreserv/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/refreserv
```

```
21 PROGS = cleanup \
22         refreserv_001_pos \
23         refreserv_002_pos \
24         refreserv_003_pos \
25         refreserv_004_pos \
26         refreserv_005_pos \
27         setup
```

```
29 FILES = refreserv.cfg
```

```
31 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
32 $(CMDS) := FILEMODE = 0555
```

```
34 all lint clean clobber:
```

```
36 install: $(CMDS)
```

```
38 $(CMDS): $(TESTDIR)
```

```
40 $(TESTDIR):
41     $(INS.dir)
```

```
43 $(TESTDIR)/%: %.ksh
44     $(INS.rename)
```

```
46 $(TESTDIR)/%: %
47     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/cleanup.ksh

1

1054 Fri Nov 22 15:21:28 2013
new/usr/src/test/zfs-tests/tests/functional/refreserv/cleanup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "both"
35 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv.cfg

1

986 Fri Nov 22 15:21:28 2013

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export TESTFILE=testfile
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_001_pos.ksh 1

```
*****
2169 Fri Nov 22 15:21:29 2013
new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/refreserv/refreserv.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Reservations are enforced using the maximum of 'reserv' and 'refreserv'
38 #
39 # STRATEGY:
40 #     1. Setting quota for parent filesystem.
41 #     2. Setting reservation and refreservation for sub-filesystem.
42 #     3. Verify the sub-fs reservation are enforced by the maximum of 'reserv'
43 #        and 'refreserv'.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
51     log_must $ZFS create $TESTPOOL/$TESTFS
52     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
53 }
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_001_pos.ksh 2

```
55 log_assert "Reservations are enforced using the maximum of " \
56     "'reserv' and 'refreserv'"
57 log_onexit cleanup
58 #
59 fs=$TESTPOOL/$TESTFS ; subfs=$fs/subfs
60 log_must $ZFS create $subfs
61 log_must $ZFS set quota=25M $fs
62 #
63 log_must $ZFS set reserv=10M $subfs
64 log_must $ZFS set refreserv=20M $subfs
65 mntpnt=$(get_prop mountpoint $fs)
66 log_mustnot $MKFILE 15M $mntpnt/$TESTFILE
67 #
68 log_must $RM -f $mntpnt/$TESTFILE
69 #
70 log_must $ZFS set reserv=20M $subfs
71 log_must $ZFS set refreserv=10M $subfs
72 log_mustnot $MKFILE 15M $mntpnt/$TESTFILE
73 #
74 log_pass "Reservations are enforced using the maximum of " \
75     "'reserv' and 'refreserv'"
```

```

*****
3005 Fri Nov 22 15:21:29 2013
new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/refreserv/refreserv.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Setting full size as refreservation, verify no snapshot can be created.
38 #
39 # STRATEGY:
40 #     1. Setting full size as refreservation on pool
41 #     2. Verify no snapshot can be created on this pool
42 #     3. Setting full size as refreservation on filesystem
43 #     4. Verify no snapshot can be created on it and its subfs
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     if is_global_zone ; then
51         log_must $ZFS set refreservation=none $TESTPOOL
52     fi
53     if datasetexists $TESTPOOL@snap ; then
54         log_must $ZFS destroy -f $TESTPOOL@snap
55     fi
56 }

```

```

55     fi
56     fi
57     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
58     log_must $ZFS create $TESTPOOL/$TESTFS
59     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
60 }
61 #
62 # This function iteratively increases refreservation to its highest possible
63 # value. Simply setting refreservation == quota can allow enough writes to
64 # complete that the test fails.
65 function max_refreserv
66 {
67     typeset ds=$1
68     typeset -i incsize=131072
69     typeset -i rr=$(get_prop available $ds)
70 #
71     log_must $ZFS set refreservation=$rr $ds
72     while ; do
73         $ZFS set refreservation=$((rr + incsize)) $ds >/dev/null 2>&1
74         if [[ $? == 0 ]]; then
75             ((rr += incsize))
76             continue
77         else
78             ((incsize /= 2))
79             ((incsize == 0)) && break
80         fi
81     done
82 }
83 #
84 #
85 log_assert "Setting full size as refreservation, verify no snapshot " \
86 "can be created."
87 log_onexit cleanup
88 #
89 log_must $ZFS create $TESTPOOL/$TESTFS/subfs
90 #
91 typeset datasets
92 if is_global_zone; then
93     datasets="$TESTPOOL $TESTPOOL/$TESTFS $TESTPOOL/$TESTFS/subfs"
94 else
95     datasets="$TESTPOOL/$TESTFS $TESTPOOL/$TESTFS/subfs"
96 fi
97 #
98 for ds in $datasets; do
99     #
100    # Verify refreservation on dataset
101    #
102    log_must $ZFS set quota=25M $ds
103    max_refreserv $ds
104    log_mustnot $ZFS snapshot $ds@snap
105    if datasetexists $ds@snap ; then
106        log_fail "ERROR: $ds@snap should not exists."
107    fi
108 #
109    log_must $ZFS set quota=none $ds
110    log_must $ZFS set refreservation=none $ds
111 done
112 #
113 log_pass "Setting full size as refreservation, verify no snapshot " \
114 "can be created."

```


new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_003_pos.ksh 1

```
*****
2264 Fri Nov 22 15:21:29 2013
new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/refreserv/refreserv.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Verify a snapshot will only be allowed if there is enough free pool
38 # space outside of this refreservation.
39 #
40 # STRATEGY:
41 # 1. Setting quota and refreservation
42 # 2. Verify snapshot can be created, when used =< quota - refreservation
43 # 3. Verify failed to create snapshot, when used > quota - refreservation
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
51     log_must $ZFS create $TESTPOOL/$TESTFS
52     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
53 }
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_003_pos.ksh 2

```
55 log_assert "Verify a snapshot will only be allowed if there is enough " \
56     "free space outside of this refreservation."
57 log_onexit cleanup
58 #
59 fs=$TESTPOOL/$TESTFS
60 log_must $ZFS set quota=25M $fs
61 log_must $ZFS set refreservation=10M $fs
62 #
63 mntpnt=$(get_prop mountpoint $fs)
64 log_must $MKFILE 7M $mntpnt/$TESTFILE
65 log_must $ZFS snapshot $fs@snap
66 #
67 log_must $MKFILE 7M $mntpnt/$TESTFILE.2
68 log_must $ZFS snapshot $fs@snap2
69 #
70 log_must $MKFILE 7M $mntpnt/$TESTFILE.3
71 log_mustnot $ZFS snapshot $fs@snap3
72 if datasetexists $fs@snap3 ; then
73     log_fail "ERROR: $fs@snap3 should not exists."
74 fi
75 #
76 log_pass "Verify a snapshot will only be allowed if there is enough " \
77     "free space outside of this refreservation."
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_004_pos.ksh 1

```
*****
2434 Fri Nov 22 15:21:30 2013
new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/refreserv/refreserv.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Verify reservation is limited by available space.
38 #
39 # STRATEGY:
40 #     1. Setting quota and reservation on parent filesystem.
41 #     2. Get available space on sub-filesystem.
42 #     3. Verify reservation is limited by available on it.
43 #
44 #
45 verify_runnable "both"
46 #
47 function cleanup
48 {
49     if is_global_zone ; then
50         log_must $ZFS set reservation=none $TESTPOOL
51     fi
52     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
53     log_must $ZFS create $TESTPOOL/$TESTFS
54     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS

```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_004_pos.ksh 2

```
55 }
56 #
57 log_assert "Verify reservation is limited by available space."
58 log_onexit cleanup
59 #
60 pool=$TESTPOOL ; fs=$pool/$TESTFS ; subfs=$fs/subfs
61 log_must $ZFS create $subfs
62 #
63 typeset datasets
64 if is_global_zone; then
65     datasets="$pool $fs"
66 else
67     datasets="$fs"
68 fi
69 #
70 for ds in $datasets; do
71     log_must $ZFS set quota=25M $ds
72     log_must $ZFS set reservation=15M $ds
73 #
74     typeset -i avail
75     avail=$(get_prop avail $subfs)
76     log_must $ZFS set reservation=$avail $subfs
77     typeset mntpnt
78     mntpnt=$(get_prop mountpoint $subfs)
79     log_must $MKFILE $avail $mntpnt/$TESTFILE
80 #
81     typeset -i exceed
82     ((exceed = avail + 1))
83     log_mustnot $ZFS set reservation=$exceed $subfs
84     log_mustnot $MKFILE $avail $mntpnt/$TESTFILE
85 #
86     log_must $ZFS set quota=none $ds
87     log_must $ZFS set reservation=15M $ds
88 done
89 #
90 log_pass "Verify reservation is limited by available space."

```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_005_pos.ksh 1

```
*****
2055 Fri Nov 22 15:21:30 2013
new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     Volume refreservation is limited by volsize
37 #
38 # STRATEGY:
39 #     1. Create volume on filesystem
40 #     2. Setting quota for parent filesystem
41 #     3. Verify volume refreservation is only limited by volsize
42 #     4. Verify volume refreservation can be changed when volsize changed
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     log_must $ZFS destroy -rf $TESTPOOL/$TESTFS
50     log_must $ZFS create $TESTPOOL/$TESTFS
51     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
52 }
53 #
54 log_assert "Volume refreservation is limited by volsize"
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/refreserv_005_pos.ksh 2

```
55 log_onexit cleanup
56 #
57 fs=$TESTPOOL/$TESTFS; vol=$fs/vol
58 log_must $ZFS create -V 10M $vol
59 #
60 # Verify the parent filesystem does not affect volume
61 log_must $ZFS set quota=25M $fs
62 log_must $ZFS set refreservation=10M $vol
63 avail=$(get_prop mountpoint $vol)
64 log_mustnot $ZFS set refreservation=$avail $vol
65 #
66 # Verify it is affected by volsize
67 log_must $ZFS set volsize=15M $vol
68 log_must $ZFS set refreservation=15M $vol
69 log_mustnot $ZFS set refreservation=16M $vol
70 #
71 log_pass "Volume refreservation is limited by volsize"
```

new/usr/src/test/zfs-tests/tests/functional/refreserv/setup.ksh

1

```
*****
1076 Fri Nov 22 15:21:30 2013
new/usr/src/test/zfs-tests/tests/functional/refreserv/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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*****
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32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "both"
35 DISK=${DISKS% *}
36 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/Makefile

1

845 Fri Nov 22 15:21:31 2013

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/rename_dirs
```

```
21 PROGS = cleanup \
22         rename_dirs_001_pos \
23         setup
```

```
25 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
26 $(CMDS) := FILEMODE = 0555
```

```
28 all lint clean clobber:
```

```
30 install: $(CMDS)
```

```
32 $(CMDS): $(TESTDIR)
```

```
34 $(TESTDIR):
```

```
35     $(INS.dir)
```

```
37 $(TESTDIR)/%: %.ksh
```

```
38     $(INS.rename)
```

```
40 $(TESTDIR)/%: %
```

```
41     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/cleanup.ksh

1

1031 Fri Nov 22 15:21:31 2013

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/rename_dirs_001_pos.ksh 1

```
*****
1866 Fri Nov 22 15:21:31 2013
new/usr/src/test/zfs-tests/tests/functional/rename_dirs/rename_dirs_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Create two directory trees in ZFS filesystem, and concurrently rename
37 # directory across the two trees. ZFS should be able to handle the race
38 # situation.
39 #
40 # STRATEGY:
41 # 1. Create a ZFS filesystem
42 # 2. Make two directory tree in the zfs file system
43 # 3. Continually rename directory from one tree to another tree in two process
44 # 4. After the specified time duration, the system should not be panic.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     log_must $RM -rf $TESTDIR/*
52 }
53 #
54 log_assert "ZFS can handle race directory rename operation."
```

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/rename_dirs_001_pos.ksh 2

```
56 log_onexit cleanup
57 #
58 $CD $TESTDIR
59 $MKDIR -p 1/2/3/4/5 a/b/c/d/e
60 #
61 $RENAME_DIRS &
62 #
63 $SLEEP 500
64 typeset -i retval=1
65 $PGREP $RENAME_DIRS >/dev/null 2>&1
66 retval=$?
67 if (( $retval == 0 )); then
68     $PKILL -9 $RENAME_DIRS >/dev/null 2>&1
69 fi
70 #
71 log_pass "ZFS handle race directory rename operation as expected."
```

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/setup.ksh

1

1053 Fri Nov 22 15:21:32 2013

new/usr/src/test/zfs-tests/tests/functional/rename_dirs/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 default_setup $DISK
```


new/usr/src/test/zfs-tests/tests/functional/replacement/Makefile

1

940 Fri Nov 22 15:21:32 2013

new/usr/src/test/zfs-tests/tests/functional/replacement/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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10 #
```

```
12 #
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/replacement
```

```
21 PROGS = cleanup \
22         replacement_001_pos \
23         replacement_002_pos \
24         replacement_003_pos \
25         setup
```

```
27 FILES = replacement.cfg
```

```
29 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
30 $(CMDS) := FILEMODE = 0555
```

```
32 all lint clean clobber:
```

```
34 install: $(CMDS)
```

```
36 $(CMDS): $(TESTDIR)
```

```
38 $(TESTDIR):
39     $(INS.dir)
```

```
41 $(TESTDIR)/%: %.ksh
42     $(INS.rename)
```

```
44 $(TESTDIR)/%: %
45     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/replacement/cleanup.ksh

1

1057 Fri Nov 22 15:21:33 2013

new/usr/src/test/zfs-tests/tests/functional/replacement/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/replacement/replacement.cfg

1

1295 Fri Nov 22 15:21:33 2013

new/usr/src/test/zfs-tests/tests/functional/replacement/replacement.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export TESTFILE=testfile
32 export TESTFILE1=testfile1
33 export HOLES_FILESIZE=${HOLES_FILESIZE-"67108864"} # 64 Mb
34 export HOLES_BLKSIZE=${HOLES_BLKSIZE-"512"}
35 export HOLES_SEED=${HOLES_SEED-""}
36 export HOLES_FILEOFFSET=${HOLES_FILEOFFSET-""}
37 export HOLES_COUNT=${HOLES_COUNT-"16384"} # FILESIZE/BLKSIZE/8
38 export REPLACEFILE="sparedisk"
```

new/usr/src/test/zfs-tests/tests/functional/replacement/replacement_001_pos.ksh 1

```
*****
3784 Fri Nov 22 15:21:33 2013
new/usr/src/test/zfs-tests/tests/functional/replacement/replacement_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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*****
```

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/replacement/replacement.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Replacing disks during I/O should pass for supported pools.
38 #
39 # STRATEGY:
40 #     1. Create multidisk pools (stripe/mirror/raidz) and
41 #        start some random I/O
42 #     2. Replace a disk in the pool with another disk.
43 #     3. Verify the integrity of the file system and the resilvering.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     if [[ -n "$child_pids" ]]; then
51         for wait_pid in $child_pids
52         do
53             $KILL $wait_pid
54         done
55     fi
56 }
```

new/usr/src/test/zfs-tests/tests/functional/replacement/replacement_001_pos.ksh 2

```
55     fi
56     if poolexists $TESTPOOL1; then
57         destroy_pool $TESTPOOL1
58     fi
59     fi
60     [[ -e $TESTDIR ]] && log_must $RM -rf $TESTDIR/*
61 }
62
63 log_assert "Replacing a disk during I/O completes."
64
65 options=""
66 options_display="default options"
67
68 log_onexit cleanup
69
70 [[ -n "$HOLES_FILESIZE" ]] && options="$options -f $HOLES_FILESIZE "
71 [[ -n "$HOLES_BLKSIZE" ]] && options="$options -b $HOLES_BLKSIZE "
72 [[ -n "$HOLES_COUNT" ]] && options="$options -c $HOLES_COUNT "
73 [[ -n "$HOLES_SEED" ]] && options="$options -s $HOLES_SEED "
74 [[ -n "$HOLES_FILEOFFSET" ]] && options="$options -o $HOLES_FILEOFFSET "
75
76 options="$options -r "
77 [[ -n "$options" ]] && options_display=$options
78
79 child_pids=""
80
81 function replace_test
82 {
83     typeset -i iters=2
84     typeset -i index=0
85     typeset opt=$1
86     typeset disk1=$2
87     typeset disk2=$3
88
89     typeset i=0
90     while [[ $i -lt $iters ]]; do
91         log_note "Invoking $FILE_TRUNC with: $options_display"
92         $FILE_TRUNC $options $TESTDIR/$TESTFILE.$i &
93         typeset pid=$!
94
95         $SLEEP 1
96         if ! $PS -p $pid > /dev/null 2>&1; then
97             log_fail "$FILE_TRUNC $options $TESTDIR/$TESTFILE.$i"
98         fi
99
100         child_pids="$child_pids $pid"
101         ((i = i + 1))
102     done
103
104     log_must $ZPOOL replace $opt $TESTPOOL1 $disk1 $disk2
105
106     $SLEEP 10
107
108     for wait_pid in $child_pids
109     do
110         $KILL $wait_pid
111     done
112     child_pids=""
113
114     log_must $ZPOOL export $TESTPOOL1
115 }
```

```
121     log_must $ZPOOL import -d $TESTDIR $TESTPOOL1
122     log_must $ZFS umount $TESTPOOL1/$TESTFS1
123     log_must $ZDB -cdui $TESTPOOL1/$TESTFS1
124     log_must $ZFS mount $TESTPOOL1/$TESTFS1

126 }

128 specials_list=""
129 i=0
130 while [[ $i != 2 ]]; do
131     $MKFILE 100m $TESTDIR/$TESTFILE1.$i
132     specials_list="$specials_list $TESTDIR/$TESTFILE1.$i"
134     ((i = i + 1))
135 done

137 #
138 # Create a replacement disk special file.
139 #
140 $MKFILE 100m $TESTDIR/$REPLACEFILE

142 for type in "" "raidz" "raidz1" "mirror"; do
143     for op in "" "-f"; do
144         create_pool $TESTPOOL1 $type $specials_list
145         log_must $ZFS create $TESTPOOL1/$TESTFS1
146         log_must $ZFS set mountpoint=$TESTDIR1 $TESTPOOL1/$TESTFS1

148         replace_test "$opt" $TESTDIR/$TESTFILE1.1 $TESTDIR/$REPLACEFILE

150         $ZPOOL iostat -v $TESTPOOL1 | grep "$TESTDIR/$REPLACEFILE"
151         if [[ $? -ne 0 ]]; then
152             log_fail "$REPLACEFILE is not present."
153         fi

155         destroy_pool $TESTPOOL1
156         log_must $RM -rf /$TESTPOOL1
157     done
158 done

160 log_pass
```

4193 Fri Nov 22 15:21:34 2013
new/usr/src/test/zfs-tests/tests/functional/replacement/replacement_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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32 # . $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/replacement/replacement.cfg
34 #
35 #
36 # DESCRIPTION:
37 #   Attaching disks during I/O should pass for supported pools.
38 #
39 # STRATEGY:
40 #   1. Create multidisk pools (stripe/mirror/raidz) and
41 #      start some random I/O
42 #   2. Attach a disk to the pool.
43 #   3. Verify the integrity of the file system and the resilvering.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     if [[ -n "$child_pids" ]]; then
51         for wait_pid in $child_pids
52         do
53             $KILL $wait_pid
54         done
55     fi
56 }
```

```
55     fi
56
57     if poolexists $TESTPOOL1; then
58         destroy_pool $TESTPOOL1
59     fi
60
61     [[ -e $TESTDIR ]] && log_must $RM -rf $TESTDIR/*
62 }
63
64 log_assert "Replacing a disk during I/O completes."
65
66 options=""
67 options_display="default options"
68
69 log_onexit cleanup
70
71 [[ -n "$HOLES_FILESIZE" ]] && options="$options -f $HOLES_FILESIZE "
72
73 [[ -n "$HOLES_BLKSIZE" ]] && options="$options -b $HOLES_BLKSIZE "
74
75 [[ -n "$HOLES_COUNT" ]] && options="$options -c $HOLES_COUNT "
76
77 [[ -n "$HOLES_SEED" ]] && options="$options -s $HOLES_SEED "
78
79 [[ -n "$HOLES_FILEOFFSET" ]] && options="$options -o $HOLES_FILEOFFSET "
80
81 options="$options -r "
82
83 [[ -n "$options" ]] && options_display=$options
84
85 child_pids=""
86
87 function attach_test
88 {
89     typeset -i iters=2
90     typeset -i index=0
91     typeset opt=$1
92     typeset disk1=$2
93     typeset disk2=$3
94
95     typeset i=0
96     while [[ $i -lt $iters ]]; do
97         log_note "Invoking $FILE_TRUNC with: $options_display"
98         $FILE_TRUNC $options $TESTDIR/$TESTFILE.$i &
99         typeset pid=$!
100
101         $SLEEP 1
102         if ! $PS -p $pid > /dev/null 2>&1; then
103             log_fail "$FILE_TRUNC $options $TESTDIR/$TESTFILE.$i"
104         fi
105
106         child_pids="$child_pids $pid"
107         ((i = i + 1))
108     done
109
110     log_must $ZPOOL attach $opt $TESTPOOL1 $disk1 $disk2
111
112     $SLEEP 10
113
114     for wait_pid in $child_pids
115     do
116         $KILL $wait_pid
117     done
118     child_pids=""
119
120     log_must $ZPOOL export $TESTPOOL1
```

```
121     log_must $ZPOOL import -d $TESTDIR $TESTPOOL1
122     log_must $ZFS umount $TESTPOOL1/$TESTFS1
123     log_must $ZDB -cdui $TESTPOOL1/$TESTFS1
124     log_must $ZFS mount $TESTPOOL1/$TESTFS1

126 }

128 specials_list=""
129 i=0
130 while [[ $i != 2 ]]; do
131     $MKFILE 100m $TESTDIR/$TESTFILE1.$i
132     specials_list="$specials_list $TESTDIR/$TESTFILE1.$i"
134     ((i = i + 1))
135 done

137 #
138 # Create a replacement disk special file.
139 #
140 $MKFILE 100m $TESTDIR/$REPLACEFILE

142 for op in "" "-f"; do
143     create_pool $TESTPOOL1 mirror $specials_list
144     log_must $ZFS create $TESTPOOL1/$TESTFS1
145     log_must $ZFS set mountpoint=$TESTDIR1 $TESTPOOL1/$TESTFS1

147     attach_test "$opt" $TESTDIR/$TESTFILE1.1 $TESTDIR/$REPLACEFILE

149     $ZPOOL iostat -v $TESTPOOL1 | grep "$TESTDIR/$REPLACEFILE"
150     if [[ $? -ne 0 ]]; then
151         log_fail "$REPLACEFILE is not present."
152     fi

154     destroy_pool $TESTPOOL1
155 done

157 log_note "Verify 'zpool attach' fails with non-mirrors."

159 for type in "" "raidz" "raidz1"; do
160     for op in "" "-f"; do
161         create_pool $TESTPOOL1 $type $specials_list
162         log_must $ZFS create $TESTPOOL1/$TESTFS1
163         log_must $ZFS set mountpoint=$TESTDIR1 $TESTPOOL1/$TESTFS1

165         log_mustnot $ZPOOL attach "$opt" $TESTDIR/$TESTFILE1.1 \
166             $TESTDIR/$REPLACEFILE

168         $ZPOOL iostat -v $TESTPOOL1 | grep "$TESTDIR/$REPLACEFILE"
169         if [[ $? -eq 0 ]]; then
170             log_fail "$REPLACEFILE should not be present."
171         fi

173         destroy_pool $TESTPOOL1
174     done
175 done

177 log_pass
```

```

*****
3932 Fri Nov 22 15:21:34 2013
new/usr/src/test/zfs-tests/tests/functional/replacement/replacement_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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*****

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/replacement/replacement.cfg
34 #
35 #
36 # DESCRIPTION:
37 #   Detaching disks during I/O should pass for supported pools.
38 #
39 # STRATEGY:
40 #   1. Create multidisk pools (stripe/mirror/raidz) and
41 #      start some random I/O
42 #   2. Detach a disk from the pool.
43 #   3. Verify the integrity of the file system and the resilvering.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     if [[ -n "$child_pids" ]]; then
51         for wait_pid in $child_pids
52         do
53             $KILL $wait_pid
54         done

```

```

55     fi
56 #
57     if poolexists $TESTPOOL1; then
58         destroy_pool $TESTPOOL1
59     fi
60 #
61     [[ -e $TESTDIR ]] && log_must $RM -rf $TESTDIR/*
62 }
63 #
64 log_assert "Replacing a disk during I/O completes."
65 #
66 options=""
67 options_display="default options"
68 #
69 log_onexit cleanup
70 #
71 [[ -n "$HOLES_FILESIZE" ]] && options="$options -f $HOLES_FILESIZE "
72 #
73 [[ -n "$HOLES_BLKSIZE" ]] && options="$options -b $HOLES_BLKSIZE "
74 #
75 [[ -n "$HOLES_COUNT" ]] && options="$options -c $HOLES_COUNT "
76 #
77 [[ -n "$HOLES_SEED" ]] && options="$options -s $HOLES_SEED "
78 #
79 [[ -n "$HOLES_FILEOFFSET" ]] && options="$options -o $HOLES_FILEOFFSET "
80 #
81 pions="$options -r "
82 #
83 [[ -n "$options" ]] && options_display=$options
84 #
85 child_pids=""
86 #
87 function detach_test
88 {
89     typeset -i iters=2
90     typeset -i index=0
91     typeset disk1=$1
92 #
93     typeset i=0
94     while [[ $i -lt $iters ]]; do
95         log_note "Invoking $FILE_TRUNC with: $options_display"
96         $FILE_TRUNC $options $TESTDIR/$TESTFILE.$i &
97         typeset pid=$!
98 #
99         $SLEEP 1
100        if ! $PS -p $pid > /dev/null 2>&1; then
101            log_fail "$FILE_TRUNC $options $TESTDIR/$TESTFILE.$i"
102        fi
103 #
104        child_pids="$child_pids $pid"
105        ((i = i + 1))
106    done
107 #
108    log_must $ZPOOL detach $TESTPOOL1 $disk1
109 #
110    $SLEEP 10
111 #
112    for wait_pid in $child_pids
113    do
114        $KILL $wait_pid
115    done
116    child_pids=""
117 #
118    log_must $ZPOOL export $TESTPOOL1
119    log_must $ZPOOL import -d $TESTDIR $TESTPOOL1
120    log_must $ZFS umount $TESTPOOL1/$TESTFS1

```



```
121     log_must $ZDB -cdui $TESTPOOL1/$TESTFS1
122     log_must $ZFS mount $TESTPOOL1/$TESTFS1
123 }

125 specials_list=""
126 i=0
127 while [[ $i != 2 ]]; do
128     $MKFILE 100m $TESTDIR/$TESTFILE1.$i
129     specials_list="$specials_list $TESTDIR/$TESTFILE1.$i"
131     ((i = i + 1))
132 done

134 create_pool $TESTPOOL1 mirror $specials_list
135 log_must $ZFS create $TESTPOOL1/$TESTFS1
136 log_must $ZFS set mountpoint=$TESTDIR1 $TESTPOOL1/$TESTFS1

138 detach_test $TESTDIR/$TESTFILE1.1

140 $ZPOOL iostat -v $TESTPOOL1 | grep "$TESTDIR/$TESTFILE1.1"
141 if [[ $? -eq 0 ]]; then
142     log_fail "$TESTFILE1.1 should no longer be present."
143 fi

145 destroy_pool $TESTPOOL1

147 log_note "Verify 'zpool detach' fails with non-mirrors."

149 for type in "" "raidz" "raidz1" ; do
150     create_pool $TESTPOOL1 $type $specials_list
151     log_must $ZFS create $TESTPOOL1/$TESTFS1
152     log_must $ZFS set mountpoint=$TESTDIR1 $TESTPOOL1/$TESTFS1

154     log_mustnot $ZPOOL detach $TESTDIR/$TESTFILE1.1

156     $ZPOOL iostat -v $TESTPOOL1 | grep "$TESTDIR/$TESTFILE1.1"
157     if [[ $? -ne 0 ]]; then
158         log_fail "$TESTFILE1.1 is not present."
159     fi

161     destroy_pool $TESTPOOL1
162 done

164 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/replacement/setup.ksh

1

1254 Fri Nov 22 15:21:34 2013

new/usr/src/test/zfs-tests/tests/functional/replacement/setup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 verify_disk_count "$DISKS" 2
36 #
37 index=`expr $RANDOM % 2`
38 case $index in
39 0) log_note "Pool Type: Mirror"
40     default_mirror_setup $DISKS
41     ;;
42 1) log_note "Pool Type: RAID-Z"
43     default_raidz_setup $DISKS
44     ;;
45 esac
46 #
47 log_pass
```

```
*****
```

```
1341 Fri Nov 22 15:21:35 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/reservation/Makefile
```

```
4206 history_003_pos relies on exact size of history log and entries
```

```
4207 history_008_pos depends on obsolete internal history log message
```

```
4208 Typo in zfs_main.c: "posxiuser"
```

```
4209 Populate zfstest with the remainder of the STF tests
```

```
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
```

```
Reviewed by: Will Guyette <will.guyette@delphix.com>
```

```
Reviewed by: Eric Diven <eric.diven@delphix.com>
```

```
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
```

```
*****
```

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```
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/reservation
```

```
21 PROGS = cleanup \
22     reservation_001_pos \
23     reservation_002_pos \
24     reservation_003_pos \
25     reservation_004_pos \
26     reservation_005_pos \
27     reservation_006_pos \
28     reservation_007_pos \
29     reservation_008_pos \
30     reservation_009_pos \
31     reservation_010_pos \
32     reservation_011_pos \
33     reservation_012_pos \
34     reservation_013_pos \
35     reservation_014_pos \
36     reservation_015_pos \
37     reservation_016_pos \
38     reservation_017_pos \
39     reservation_018_pos \
40     setup
```

```
42 FILES = reservation.cfg \
43     reservation.shlib
```

```
45 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
46 $(CMDS) := FILEMODE = 0555
```

```
48 all lint clean clobber:
```

```
50 install: $(CMDS)
```

```
52 $(CMDS): $(TESTDIR)
```

```
54 $(TESTDIR):
```

```
55     $(INS.dir)
```

```
57 $(TESTDIR)/%: %.sh
```

```
58     $(INS.rename)
```

```
60 $(TESTDIR)/%: %.ksh
```

```
61     $(INS.rename)
```

```
63 $(TESTDIR)/%: %
```

```
64     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/reservation/cleanup.ksh

1

1031 Fri Nov 22 15:21:35 2013

new/usr/src/test/zfs-tests/tests/functional/reservation/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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4209 Populate zfstest with the remainder of the STF tests

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27 #
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation.cfg

1

1458 Fri Nov 22 15:21:35 2013

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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29 #
30 #
31 export RESV_DELTA=5242880
32 export RESV_TOLERANCE=5242880 # Acceptable limit (5MB) for diff in space stats
33 export RESV_SIZE=52428800 # Default reservation size (50MB)
34 export RESV_FREE_SPACE=52428800 # Amount of space (50MB) to leave free in a pool
35 export RESV_NUM_FS=10 # Number of filesystems to create
36 export RESV_ITER=10 # Number of iterations
37 #
38 export BLOCK_SIZE=1048576
39 export ENOSPC=28
40 #
41 export TESTVOL=testvol$$
42 export TESTVOL2=testvol2-$$
43 export TESTFILE1=file1.$$
44 export TESTFILE2=file2.##
```

```

*****
5628 Fri Nov 22 15:21:36 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation.shlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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29 #
30 #
31 . $STF_SUITE/tests/functional/reservation/reservation.cfg
32 #
33 #
34 # Function to set the reservation property of a dataset to
35 # 'none' and verify that it is correctly set using both the
36 # "normal" 'zfs get reservation' and the '-p' option which
37 # gives a numerical value.
38 #
39 function zero_reservation
40 {
41     typeset resv_val
42     dataset=$1
43
44     log_must $ZFS set reservation=none $dataset
45
46     resv_val=`$ZFS get -H reservation $dataset | awk '{print $3}'`
47     if [[ $? -ne 0 ]]; then
48         log_fail "Unable to get reservation prop on $dataset"
49     elif [[ $resv_val != "none" ]]; then
50         log_fail "Reservation not 'none' ($resv_val) as expected"
51     fi
52
53
54     resv_val=`$ZFS get -pH reservation $dataset | awk '{print $3}'`

```

```

55     if [[ $? -ne 0 ]]; then
56         log_fail "Unable to get reservation prop on $dataset"
57     elif [[ $resv_val -ne 0 ]]; then
58         log_fail "Reservation not 0 ($resv_val) as expected"
59     fi
60
61     return 0
62 }
63 #
64 #
65 # Utility function to see if two values are within a certain specified
66 # limit of each other. Used primarily to check that a dataset's parent
67 # is correctly accounting for space used/available. Need this function as
68 # currently there is some slop in the way space is accounted (i.e. can't
69 # do a direct comparison).
70 #
71 function within_limits
72 {
73     typeset -l valA=$1
74     typeset -l valB=$2
75     typeset -l delta=$3
76
77     if ((valA <= valB)); then
78         if (((valB - valA) <= delta)); then
79             return 0
80         fi
81     elif ((valB <= valA)); then
82         if (((valA - valB) <= delta)); then
83             return 0
84         fi
85     fi
86
87     return 1
88 }
89 #
90 #
91 # Function to create and mount multiple filesystems. The filesystem
92 # will be named according to the name specified with a suffix value
93 # taken from the loop counter.
94 #
95 function create_multiple_fs # num_fs base_fs_name base_mnt_name
96 {
97     typeset -i iter=0
98     typeset -i count=$1
99     typeset FS_NAME=$2
100    typeset MNT_NAME=$3
101
102    while (($iter < $count)); do
103        log_must $ZFS create ${FS_NAME}$iter
104        log_must $ZFS set mountpoint=${MNT_NAME}$iter ${FS_NAME}$iter
105        ((iter = iter + 1))
106    done
107 }
108 #
109 #
110 # This function compute the largest volume size which is multiple of volume
111 # block size (default 8K) and not greater than the largest expected volsize.
112 #
113 # $1 The largest expected volume size.
114 # $2 The volume block size
115 #
116 function floor_volsize #<largest_volsize> [volblksize]
117 {
118     typeset -l largest_volsize=$1
119     typeset -l volblksize=${2:-8192}

```

```

121     if ((largest_volsize < volblksize)); then
122         log_fail "The largest_volsize must be greater than volblksize."
123     fi
124     typeset -l real_volsize
125     typeset -l n
126
127     ((n = largest_volsize / volblksize))
128     ((largest_volsize = volblksize * n))
129
130     print $largest_volsize
131 }
132
133 #
134 # This function is a copy of a function by the same name in libzfs_dataset.c
135 # Its purpose is to reserve additional space for volume metadata so volumes
136 # don't unexpectedly run out of room.
137 #
138 # Note: This function can be used to do an estimate for a volume that has not
139 # yet been created. In this case, $vol is not a volume, but rather a pool in
140 # which a volume is going to be created. In this case, use default properties.
141 #
142 function volsize_to_reservation
143 {
144     typeset vol=$1
145     typeset -i volsize=$2
146
147     typeset -i DN_MAX_INDBLKSHIFT=14
148     typeset -i SPA_BLKPTRSHIFT=7
149     typeset -i SPA_DVAS_PER_BP=3
150
151     typeset -i DNODES_PER_LEVEL_SHIFT=$((DN_MAX_INDBLKSHIFT - \
152     SPA_BLKPTRSHIFT))
153     typeset -i DNODES_PER_LEVEL=$((1 << $DNODES_PER_LEVEL_SHIFT))
154
155     if ds_is_volume $vol; then
156         typeset -i ncopies=$(get_prop copies $vol)
157         typeset -i volblocksize=$(get_prop volblocksize $vol)
158     else
159         typeset -i ncopies=1
160         typeset -i volblocksize=8192
161     fi
162     typeset -i nblocks=$((volsize / volblocksize))
163
164     typeset -i numdb=7
165     while ((nblocks > 1)); do
166         ((nblocks += DNODES_PER_LEVEL - 1))
167         ((nblocks /= DNODES_PER_LEVEL))
168         ((numdb += nblocks))
169     done
170
171     ((numdb *= SPA_DVAS_PER_BP < ncopies + 1 ? SPA_DVAS_PER_BP : \
172     ncopies + 1))
173     ((volsize *= ncopies))
174     ((numdb *= 1 << DN_MAX_INDBLKSHIFT))
175     ((volsize += numdb))
176     echo $volsize
177 }
178
179 #
180 # This function takes a pool name as an argument, and returns the largest (give
181 # or take some slop) -V value that can be used to create a volume in that pool.
182 # This is necessary because during volume creation, a reservation is created
183 # that will be larger than the value specified with -V, and potentially larger
184 # than the available space in the pool. See volsize_to_reservation().
185 #
186 function largest_volsize_from_pool

```

```

187 {
188     typeset pool=$1
189     typeset -i poolsize=$(get_prop available $pool)
190     typeset -i volsize=$poolsize
191     typeset -i nvolsize
192
193     while ;; do
194         # knock 50M off the volsize each time through
195         ((volsize -= 50 * 1024 * 1024))
196         nvolsize=$(volsize_to_reservation $pool $volsize)
197         nvolsize=$(floor_volsize $nvolsize)
198         ((nvolsize < poolsize)) && break
199     done
200     echo $volsize
201 }

```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_001_pos.sh 1

```
*****
3676 Fri Nov 22 15:21:36 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_001_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 # $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # ZFS allows reservations to be set on filesystems and volumes, provided
39 # the reservation is less than the space available in the pool.
40 #
41 # STRATEGY:
42 # 1) Create a regular and sparse volume
43 # (filesystem already created by default_setup)
44 # 2) Get the space available in the pool
45 # 3) Set a reservation on the filesystem less than the space available.
46 # 4) Verify that the 'reservation' property for the filesystem has
47 # the correct value.
48 # 5) Reset the reservation to 'none'
49 # 6) Repeat steps 2-5 for both volume types
50 #
51 #
52 verify_runnable "both"
53 #
54 function cleanup
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_001_pos.sh 2

```
55 {
56     for obj in $OBJ_LIST; do
57         datasetexists $obj && log_must $ZFS destroy -f $obj
58     done
59 }
60 #
61 log_onexit cleanup
62 #
63 log_assert "Verify that to set a reservation on a filesystem or volume must " \
64     "use value smaller than space available property of pool"
65 #
66 space_avail='get_prop available $TESTPOOL'
67 #
68 if ! is_global_zone ; then
69     OBJ_LIST=""
70 else
71     OBJ_LIST="$TESTPOOL/$TESTVOL $TESTPOOL/$TESTVOL2"
72 #
73     ((vol_set_size = space_avail / 4))
74     vol_set_size=$((floor_volsize $vol_set_size))
75     ((sparse_vol_set_size = space_avail * 4))
76     sparse_vol_set_size=$((floor_volsize $sparse_vol_set_size))
77 #
78     #
79     # Note that when creating a regular volume we are implicitly
80     # setting a reservation upon it (i.e. the size of the volume)
81     # which we reset back to zero initially.
82     #
83     log_must $ZFS create -V $vol_set_size $TESTPOOL/$TESTVOL
84     log_must $ZFS set reservation=none $TESTPOOL/$TESTVOL
85     log_must $ZFS set refreservation=none $TESTPOOL/$TESTVOL
86     log_must $ZFS create -s -V $sparse_vol_set_size $TESTPOOL/$TESTVOL2
87 fi
88 #
89 #
90 for obj in $TESTPOOL/$TESTVFS $OBJ_LIST; do
91 #
92     space_avail='get_prop available $TESTPOOL'
93     resv_size_set='expr $space_avail - $RESV_DELTA'
94 #
95     #
96     # For a regular (non-sparse) volume the upper limit
97     # for reservations is not determined by the space
98     # available in the pool but rather by the size of
99     # the volume itself.
100    #
101    [[ $obj == $TESTPOOL/$TESTVOL ]] && \
102        ((resv_size_set = vol_set_size - RESV_DELTA))
103 #
104    log_must $ZFS set reservation=$resv_size_set $obj
105 #
106    resv_size_get='get_prop reservation $obj'
107    if [[ $resv_size_set != $resv_size_get ]]; then
108        log_fail "Reservation not the expected value " \
109            "($resv_size_set != $resv_size_get)"
110    fi
111 #
112    log_must zero_reservation $obj
113 #
114    new_space_avail='get_prop available $obj'
115 #
116    #
117    # Due to the way space is consumed and released by metadata we
118    # can't do an exact check here, but we do do a basic sanity
119    # check.
120    #
```


new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_001_pos.sh 3

```
121         log_must within_limits $space_avail $new_space_avail $RESV_TOLERANCE
122 done
```

```
124 log_pass "Successfully set reservation on filesystem and volume"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_002_pos.sh 1

```
*****
3098 Fri Nov 22 15:21:37 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_002_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Reservation values cannot exceed the amount of space available
39 # in the pool. Verify that attempting to set a reservation greater
40 # than this value fails.
41 #
42 # STRATEGY:
43 # 1) Create a filesystem, regular and sparse volume
44 # 2) Get the space available in the pool
45 # 3) Attempt to set a reservation greater than the available space
46 # on the filesystem and verify it fails.
47 # 4) Verify that the reservation is still set to 'none' (or 0) on
48 # the filesystem.
49 # 5) Repeat 3-4 for regular and sparse volume
50 #
51 #
52 verify_runnable "both"
53 #
54 function cleanup
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_002_pos.sh 2

```
55 {
56     for obj in $OBJ_LIST; do
57         datasetexists $obj && log_must $ZFS destroy -f $obj
58     done
59
60     log_must zero_reservation $TESTPOOL/$TESTFS
61 }
62
63 log_onexit cleanup
64
65 log_assert "Reservation values cannot exceed the amount of space" \
66     " available in the pool"
67
68 space_avail=`get_prop available $TESTPOOL`
69
70 if ! is_global_zone ; then
71     OBJ_LIST=""
72 else
73     OBJ_LIST="$TESTPOOL/$TESTVOL $TESTPOOL/$TESTVOL2"
74
75     ((vol_set_size = space_avail / 4))
76     vol_set_size=$((floor_volsize $vol_set_size))
77     ((sparse_vol_set_size = space_avail * 4))
78     sparse_vol_set_size=$((floor_volsize $sparse_vol_set_size))
79
80     log_must $ZFS create -V $vol_set_size $TESTPOOL/$TESTVOL
81     log_must $ZFS set reservation=none $TESTPOOL/$TESTVOL
82     log_must $ZFS create -s -V $sparse_vol_set_size $TESTPOOL/$TESTVOL2
83 fi
84
85 for obj in $TESTPOOL/$TESTFS $OBJ_LIST ; do
86
87     space_avail=`get_prop available $TESTPOOL`
88     resv_size_set=`expr $space_avail + $RESV_DELTA`
89
90     #
91     # For regular (non-sparse) volumes the upper limit is determined
92     # not by the space available in the pool but rather by the size
93     # of the volume itself.
94     #
95     [[ $obj == $TESTPOOL/$TESTVOL ]] && \
96         ((resv_size_set = vol_set_size + RESV_DELTA))
97
98     log_must zero_reservation $obj
99     log_mustnot $ZFS set reservation=$resv_size_set $obj
100
101     resv_size_get=`get_prop reservation $obj`
102
103     if (($resv_size_get != 0)); then
104         log_fail "Reservation value non-zero ($resv_size_get)"
105     fi
106 done
107
108 log_pass "Attempting to set too large reservation failed as expected"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_003_pos.sh 1

```
*****
3586 Fri Nov 22 15:21:37 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_003_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Verify that it's possible to set a reservation on a filesystem,
39 # or volume multiple times, without resetting the reservation
40 # to none.
41 #
42 # STRATEGY:
43 # 1) Create a regular volume and a sparse volume
44 # 2) Get the space available in the pool
45 # 3) Set a reservation on the filesystem less than the space available.
46 # 4) Verify that the 'reservation' property for the filesystem has
47 # the correct value.
48 # 5) Repeat 2-4 for different reservation values
49 # 6) Repeat 3-5 for regular and sparse volume
50 #
51 #
52 verify_runnable "both"
53 #
54 log_assert "Verify it is possible to set reservations multiple times " \
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_003_pos.sh 2

```
55 "on a filesystem regular and sparse volume"
57 function cleanup
58 {
59     log_must zero_reservation $TESTPOOL/$TESTFS
60
61     for obj in $OBJ_LIST; do
62         datasetexists $obj && log_must $ZFS destroy -f $obj
63     done
64 }
66 log_onexit cleanup
67 #
69 #
70 # Set a reservation $RESV_ITER times on a dataset and verify that
71 # the reservation is correctly set each time.
72 #
73 function multiple_resv { #dataset
74     typeset -i i=0
75
76     dataset=$1
77
78     log_must zero_reservation $dataset
79     space_avail=`get_prop available $TESTPOOL`
80
81     ((resv_size = (space_avail - RESV_DELTA) / RESV_ITER))
82
83     #
84     # For regular (non-sparse) volumes the upper limit is determined
85     # not by the space available in the pool but rather by the size
86     # of the volume itself.
87     #
88     [[ $obj == $TESTPOOL/$TESTVOL ]] && \
89         ((resv_size = (vol_set_size - RESV_DELTA) / RESV_ITER))
90
91     resv_size_set=$resv_size
92
93     while ((i < $RESV_ITER)); do
94
95         ((i = i + 1))
96
97         ((resv_size_set = resv_size * i))
98
99         log_must $ZFS set reservation=$resv_size_set $dataset
100
101         resv_size_get=`get_prop reservation $dataset`
102         if [[ $resv_size_set != $resv_size_get ]]; then
103             log_fail "Reservation not the expected value " \
104                 "$resv_size_set != $resv_size_get"
105         fi
106     done
107
108     log_must zero_reservation $dataset
109 }
111 space_avail=`get_prop available $TESTPOOL`
112 #
113 if ! is_global_zone ; then
114     OBJ_LIST=""
115 else
116     OBJ_LIST="$TESTPOOL/$TESTVOL $TESTPOOL/$TESTVOL2"
117
118     ((vol_set_size = space_avail / 4))
119     vol_set_size=$(floor_volsize $vol_set_size)
120     ((sparse_vol_set_size = space_avail * 4))
```

```
121     sparse_vol_set_size=$(floor_volsize $sparse_vol_set_size)

124     log_must $ZFS create -V $vol_set_size $TESTPOOL/$TESTVOL
125     log_must $ZFS set reservation=none $TESTPOOL/$TESTVOL
126     log_must $ZFS create -s -V $sparse_vol_set_size $TESTPOOL/$TESTVOL2
127 fi

129 for obj in $TESTPOOL/$TESTFMS $OBJ_LIST ; do
130     multiple_resv $obj
131 done

133 log_pass "Multiple reservations successfully set on filesystem" \
134     " and both volume types"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_004_pos.sh 1

```
*****
3771 Fri Nov 22 15:21:37 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_004_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # When a dataset which has a reservation set on it is destroyed,
39 # the space consumed or reserved by that dataset should be released
40 # back into the pool.
41 #
42 # STRATEGY:
43 # 1) Create a filesystem, regular and sparse volume
44 # 2) Get the space used and available in the pool
45 # 3) Set a reservation on the filesystem less than the space available.
46 # 4) Verify that the 'reservation' property for the filesystem has
47 # the correct value.
48 # 5) Destroy the filesystem without resetting the reservation value.
49 # 6) Verify that the space used and available totals for the pool have
50 # changed by the expected amounts (within tolerances).
51 # 7) Repeat steps 3-6 for a regular volume and sparse volume
52 #
53 #
54 verify_runnable "both"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_004_pos.sh 2

```
56 function cleanup {
57     for obj in $OBJ_LIST; do
58         datasetexists $obj && log_must $ZFS destroy -f $obj
59     done
60 }
61 }
62
63 log_assert "Verify space released when a dataset with reservation is destroyed"
64
65 log_onexit cleanup
66
67 log_must $ZFS create $TESTPOOL/$TESTFS2
68
69 space_avail='get_prop available $TESTPOOL'
70
71 if ! is_global_zone ; then
72     OBJ_LIST="$TESTPOOL/$TESTFS2"
73 else
74     OBJ_LIST="$TESTPOOL/$TESTFS2 \
75             $TESTPOOL/$TESTVOL $TESTPOOL/$TESTVOL2"
76
77     ((vol_set_size = space_avail / 4))
78     vol_set_size=$((floor_volsize $vol_set_size))
79     ((sparse_vol_set_size = space_avail * 4))
80     sparse_vol_set_size=$((floor_volsize $sparse_vol_set_size))
81
82     log_must $ZFS create -V $vol_set_size $TESTPOOL/$TESTVOL
83     log_must $ZFS set refreservation=none $TESTPOOL/$TESTVOL
84     log_must $ZFS set reservation=none $TESTPOOL/$TESTVOL
85     log_must $ZFS create -s -V $sparse_vol_set_size $TESTPOOL/$TESTVOL2
86 fi
87
88 # re-calculate space available.
89 space_avail='get_prop available $TESTPOOL'
90
91 # Calculate a large but valid reservation value.
92 resv_size_set='expr $space_avail - $RESV_DELTA'
93
94 for obj in $OBJ_LIST ; do
95
96     space_avail='get_prop available $TESTPOOL'
97     space_used='get_prop used $TESTPOOL'
98
99     #
100    # For regular (non-sparse) volumes the upper limit is determined
101    # not by the space available in the pool but rather by the size
102    # of the volume itself.
103    #
104    [[ $obj == $TESTPOOL/$TESTVOL ]] && \
105        ((resv_size_set = vol_set_size - RESV_DELTA))
106
107    log_must $ZFS set reservation=$resv_size_set $obj
108
109    resv_size_get='get_prop reservation $obj'
110    if [[ $resv_size_set != $resv_size_get ]]; then
111        log_fail "Reservation not the expected value " \
112            "($resv_size_set != $resv_size_get)"
113    fi
114
115    log_must $ZFS destroy -f $obj
116
117    new_space_avail='get_prop available $TESTPOOL'
118    new_space_used='get_prop used $TESTPOOL'
119
120    log_must within_limits $space_used $new_space_used $RESV_TOLERANCE
```

```
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_004_pos.sh 3
```

```
121         log_must within_limits $space_avail $new_space_avail $RESV_TOLERANCE  
122 done
```

```
124 log_pass "Space correctly released when dataset is destroyed"
```

```

*****
3627 Fri Nov 22 15:21:38 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_005_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # When a reservation property of a filesystem, regular volume
39 # or sparse volume is set to 'none' the space previously consumed by the
40 # reservation should be released back to the pool
41 #
42 # STRATEGY:
43 # 1) Create a filesystem, regular volume and sparse volume
44 # 2) Get the space used and available in the pool
45 # 3) Set a reservation on the filesystem less than the space available.
46 # 4) Verify that the 'reservation' property for the filesystem has
47 # the correct value.
48 # 5) Reset the reservation value back to zero (or 'none')
49 # 6) Verify that the space used and available totals for the pool have
50 # changed by the expected amounts (within tolerances).
51 # 7) Repeat steps 3-6 for a regular volume, sparse volume
52 #
53 #
54 verify_runnable "both"

```

```

56 log_assert "Verify space released when reservation on a dataset is set "\
57 "to 'none'"
58 #
59 function cleanup
60 {
61     for obj in $OBJ_LIST; do
62         datasetexists $obj && log_must $ZFS destroy -f $obj
63     done
64 }
65 #
66 log_onexit cleanup
67 #
68 space_avail='get_prop available $TESTPOOL'
69 #
70 if ! is_global_zone ; then
71     OBJ_LIST=""
72 else
73     OBJ_LIST="$TESTPOOL/$TESTVOL $TESTPOOL/$TESTVOL2"
74     ((vol_set_size = space_avail / 4))
75     vol_set_size=$((floor_volsize $vol_set_size))
76     ((sparse_vol_set_size = space_avail * 4))
77     sparse_vol_set_size=$((floor_volsize $sparse_vol_set_size))
78 #
79 #
80     log_must $ZFS create -V $vol_set_size $TESTPOOL/$TESTVOL
81     log_must $ZFS set reservation=none $TESTPOOL/$TESTVOL
82     log_must $ZFS create -s -V $sparse_vol_set_size $TESTPOOL/$TESTVOL2
83 fi
84 #
85 space_avail='get_prop available $TESTPOOL'
86 space_used='get_prop used $TESTPOOL'
87 #
88 # Calculate a large but valid reservation value.
89 resv_size_set='expr $space_avail - $RESV_DELTA'
90 #
91 for obj in $TESTPOOL/$TESTVFS $OBJ_LIST ; do
92     #
93     # For regular (non-sparse) volumes the upper limit is determined
94     # not by the space available in the pool but rather by the size
95     # of the volume itself.
96     #
97     #
98     [[ $obj == $TESTPOOL/$TESTVOL ]] && \
99         ((resv_size_set = vol_set_size - RESV_DELTA))
100 #
101     log_must $ZFS set reservation=$resv_size_set $obj
102 #
103     resv_size_get='get_prop reservation $obj'
104     if [[ $resv_size_set != $resv_size_get ]]; then
105         log_fail "Reservation not the expected value "\
106             "($resv_size_set != $resv_size_get)"
107     fi
108 #
109     log_must $ZFS set reservation=none $obj
110 #
111     new_space_avail='get_prop available $TESTPOOL'
112     new_space_used='get_prop used $TESTPOOL'
113 #
114     log_must within_limits $space_used $new_space_used $RESV_TOLERANCE
115     log_must within_limits $space_avail $new_space_avail $RESV_TOLERANCE
116 done
117 #
118 log_pass "Space correctly released when dataset reservation set to 'none'"

```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_006_pos.sh 1

```
*****
2491 Fri Nov 22 15:21:38 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_006_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Reservations (if successfully set) guarantee a minimum amount of space
39 # for a dataset. Unlike quotas however there should be no restrictions
40 # on accessing space outside of the limits of the reservation (if the
41 # space is available in the pool). Verify that in a filesystem with a
42 # reservation set that its possible to create files both within the
43 # reserved space and also outside.
44 #
45 # STRATEGY:
46 # 1) Create a filesystem
47 # 2) Get the space used and available in the pool
48 # 3) Set a reservation on the filesystem
49 # 4) Verify can write a file that is bigger than the reserved space
50 #
51 # i.e. we start writing within the reserved region and then continue
52 # for 20MB outside it.
53 #
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_006_pos.sh 2

```
55 verify_runnable "both"
56 #
57 function cleanup
58 {
59     [[ -e $TESTDIR/$TESTFILE1 ]] && log_must $RM -rf $TESTDIR/$TESTFILE1
60     log_must $ZFS set reservation=none $TESTPOOL/$TESTFS
61 }
62 #
63 log_onexit cleanup
64 #
65 log_assert "Verify can create files both inside and outside reserved areas"
66 #
67 space_used=`get_prop used $TESTPOOL`
68 #
69 log_must $ZFS set reservation=$RESV_SIZE $TESTPOOL/$TESTFS
70 #
71 #
72 # Calculate how many writes of BLOCK_SIZE it would take to fill
73 # up RESV_SIZE + 20971520 (20 MB).
74 #
75 fill_size=`expr $RESV_SIZE + 20971520`
76 write_count=`expr $fill_size / $BLOCK_SIZE`
77 #
78 log_must $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 -b $BLOCK_SIZE \
79     -c $write_count -d 0
80 #
81 log_pass "Able to create files inside and outside reserved area"
```


new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_007_pos.sh 1

```
*****
3776 Fri Nov 22 15:21:38 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_007_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Setting a reservation on dataset should have no effect on any other
39 # dataset at the same level in the hierarchy beyond using up available
40 # space in the pool.
41 #
42 # STRATEGY:
43 # 1) Create a filesystem
44 # 2) Set a reservation on the filesystem
45 # 3) Create another filesystem at the same level
46 # 4) Set a reservation on the second filesystem
47 # 5) Destroy both the filesystems
48 # 6) Verify space accounted for correctly
49 #
50 #
51 verify_runnable "both"
52 #
53 log_assert "Verify reservations on data sets doesn't affect other data sets " \
54 "at same level except for consuming space from common pool"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_007_pos.sh 2

```
56 function cleanup
57 {
58     datasetexists $TESTPOOL/$TESTFS2 && \
59     log_must $ZFS destroy -f $TESTPOOL/$TESTFS2
60 #
61     datasetexists $TESTPOOL/$TESTFS1 && \
62     log_must $ZFS destroy -f $TESTPOOL/$TESTFS1
63 }
64 #
65 log_onexit cleanup
66 #
67 space_avail='get_prop available $TESTPOOL'
68 space_used='get_prop used $TESTPOOL'
69 #
70 resv_size_set='expr $space_avail / 3'
71 #
72 #
73 # Function which creates two datasets, sets reservations on them,
74 # then destroys them and ensures that space is correctly accounted
75 # for.
76 #
77 # Any special arguments for create are passed in via the args
78 # paramater.
79 #
80 function create_resv_destroy { # args1 dataset1 args2 dataset2
81 #
82     args1=$1
83     dataset1=$2
84     args2=$3
85     dataset2=$4
86 #
87     log_must $ZFS create $args1 $dataset1
88 #
89     log_must $ZFS set reservation=$RESV_SIZE $dataset1
90 #
91     avail_aft_dset1='get_prop available $TESTPOOL'
92     used_aft_dset1='get_prop used $TESTPOOL'
93 #
94     log_must $ZFS create $args2 $dataset2
95 #
96     log_must $ZFS set reservation=$RESV_SIZE $dataset2
97 #
98     #
99     # After destroying the second dataset the space used and
100     # available totals should revert back to the values they
101     # had after creating the first dataset.
102     #
103     log_must $ZFS destroy -f $dataset2
104 #
105     avail_dest_dset2='get_prop available $TESTPOOL'
106     used_dest_dset2='get_prop used $TESTPOOL'
107 #
108     log_must within_limits $avail_aft_dset1 $avail_dest_dset2 $RESV_TOLERANCE
109     log_must within_limits $used_aft_dset1 $used_dest_dset2 $RESV_TOLERANCE
110 #
111     # After destroying the first dataset the space used and
112     # space available totals should revert back to the values
113     # they had when the pool was first created.
114     #
115     log_must $ZFS destroy -f $dataset1
116 #
117     avail_dest_dset1='get_prop available $TESTPOOL'
118     used_dest_dset1='get_prop used $TESTPOOL'
119 #
120     log_must within_limits $avail_dest_dset1 $space_avail $RESV_TOLERANCE
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_007_pos.sh 3

```
121     log_must within_limits $used_dest_dset1 $space_used $RESV_TOLERANCE
122 }
```

```
124 create_resv_destroy "" $TESTPOOL/$TESTFS1 "" $TESTPOOL/$TESTFS2
125 create_resv_destroy "" $TESTPOOL/$TESTFS2 "" $TESTPOOL/$TESTFS1
```

```
127 log_pass "Verify reservations on data sets doesn't affect other data sets at" \
128     " same level except for consuming space from common pool"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_008_pos.sh 1

```
*****
3906 Fri Nov 22 15:21:39 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_008_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Setting a reservation reserves a defined minimum amount of space for
39 # a dataset, and prevents other datasets using that space. Verify that
40 # reducing the reservation on a filesystem allows other datasets in
41 # the pool to use that space.
42 #
43 # STRATEGY:
44 # 1) Create multiple filesystems
45 # 2) Set reservations on all bar one of the filesystems
46 # 3) Fill up the one non-reserved filesystem
47 # 4) Reduce one of the reservations and verify can write more
48 # data into the non-reserved filesystem
49 #
50 #
51 verify_runnable "both"
52 #
53 log_assert "Verify reducing reservation allows other datasets to use space"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_008_pos.sh 2

```
55 function cleanup
56 {
57     typeset -i loop=0
58     while (($loop < $RESV_NUM_FS)); do
59         datasetexists $TESTPOOL/${TESTFS}$loop && \
60             log_must $ZFS destroy -f $TESTPOOL/${TESTFS}$loop
61     done
62     [[ -d ${TESTDIR}$loop ]] && log_must $RM -r ${TESTDIR}$loop
63
64     ((loop = loop + 1))
65 done
66 }
67 #
68 log_onexit cleanup
69 #
70 log_must create_multiple_fs $RESV_NUM_FS $TESTPOOL/$TESTFS $TESTDIR
71 #
72 space_avail='get_prop available $TESTPOOL'
73 space_used='get_prop used $TESTPOOL'
74 #
75 #
76 # To make sure this test doesn't take too long to execute on
77 # large pools, we calculate a reservation setting which when
78 # applied to all bar one of the filesystems (RESV_NUM_FS-1) will
79 # ensure we have RESV_FREE_SPACE left free in the pool, which we will
80 # be able to quickly fill.
81 #
82 resv_space_avail='expr $space_avail - $RESV_FREE_SPACE'
83 num_resv_fs='expr $RESV_NUM_FS - 1' # Number of FS to which resv will be applied
84 resv_size_set='expr $resv_space_avail / $num_resv_fs'
85 #
86 #
87 # We set the reservations now, rather than when we created the filesystems
88 # to allow us to take into account space used by the filesystem metadata
89 #
90 # Note we don't set a reservation on the first filesystem we created,
91 # hence num=1 rather than zero below.
92 #
93 typeset -i num=1
94 while (($num < $RESV_NUM_FS)); do
95     log_must $ZFS set reservation=$resv_size_set $TESTPOOL/$TESTFS$num
96     ((num = num + 1))
97 done
98 #
99 space_avail_still='get_prop available $TESTPOOL'
100 #
101 fill_size='expr $space_avail_still + $RESV_TOLERANCE'
102 write_count='expr $fill_size / $BLOCK_SIZE'
103 #
104 # Now fill up the first filesystem (which doesn't have a reservation set
105 # and thus will use up whatever free space is left in the pool).
106 num=0
107 log_note "Writing to $TESTDIR$num/$TESTFILE1"
108 #
109 $FILE_WRITE -o create -f $TESTDIR$num/$TESTFILE1 -b $BLOCK_SIZE \
110     -c $write_count -d 0
111 ret=?
112 if (($ret != $ENOSPC)); then
113     log_fail "Did not get ENOSPC as expected (got $ret)."
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_008_pos.sh 3

```
121 log_must $FILE_WRITE -o create -f ${TESTDIR}$num/$TESTFILE2 -b $PAGESIZE \  
122     -c 1000 -d 0
```

```
124 log_pass "reducing reservation allows other datasets to use space"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_009_pos.sh 1

```
*****
3078 Fri Nov 22 15:21:39 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_009_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # In pool with a full filesystem and another filesystem with a reservation
39 # setting the reservation on the second filesystem to 'none' should allow more
40 # data to be written to the first filesystem.
41 #
42 #
43 # STRATEGY:
44 # 1) Create a filesystem as a dataset
45 # 2) Create a filesystem at the same level
46 # 3) Set a reservation on the dataset filesystem
47 # 4) Fill up the filesystem
48 # 5) Set the reservation on the dataset filesystem to 'none'
49 # 6) Verify we can write more data to the first filesystem
50 #
51 #
52 verify_runnable "both"
53 #
54 log_assert "Setting top level dataset reservation to 'none' allows more data "
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_009_pos.sh 2

```
55 "to be written to top level filesystem"
56 #
57 function cleanup
58 {
59     log_must $RM -rf $TESTDIR/$TESTFILE1
60     log_must $RM -rf $TESTDIR/$TESTFILE2
61     log_must $ZFS destroy -f $TESTPOOL/$TESTFSS1
62 }
63 #
64 log_onexit cleanup
65 #
66 log_must $ZFS create $TESTPOOL/$TESTFSS1
67 #
68 space_avail='get_prop available $TESTPOOL'
69 #
70 #
71 # To make sure this test doesn't take too long to execute on
72 # large pools, we calculate a reservation setting which when
73 # applied to the dataset will ensure we have RESV_FREE_SPACE
74 # left free in the pool which we can quickly fill.
75 #
76 ((resv_size_set = space_avail - RESV_FREE_SPACE))
77 #
78 log_must $ZFS set reservation=$resv_size_set $TESTPOOL/$TESTFSS1
79 #
80 space_avail_still='get_prop available $TESTPOOL'
81 #
82 fill_size='expr $space_avail_still + $RESV_TOLERANCE'
83 write_count='expr $fill_size / $BLOCK_SIZE'
84 #
85 # Now fill up the filesystem (which doesn't have a reservation set
86 # and thus will use up whatever free space is left in the pool).
87 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 -b $BLOCK_SIZE \
88     -c $write_count -d 0
89 ret=$?
90 if (($ret != $ENOSPC)); then
91     log_fail "Did not get ENOSPC as expected (got $ret)."
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_010_pos.sh 1

```
*****
3104 Fri Nov 22 15:21:39 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_010_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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Reviewed by: Will Guyette <will.guyette@delphix.com>
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```

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # In pool with a full filesystem and a filesystem with a reservation
39 # destroying another filesystem should allow more data to be written to
40 # the full filesystem
41 #
42 #
43 # STRATEGY:
44 # 1) Create a filesystem as dataset
45 # 2) Create a filesystem at the same level
46 # 3) Set a reservation on the dataset filesystem
47 # 4) Fill up the second filesystem
48 # 5) Destroy the dataset filesystem
49 # 6) Verify can write more data to the full filesystem
50 #
51 #
52 verify_runnable "both"
53 #
54 log_assert "Destroying top level filesystem with reservation allows more " \
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_010_pos.sh 2

```
55 "data to be written to another top level filesystem"
56 #
57 function cleanup
58 {
59     datasetexists $TESTPOOL/$TESTFS1 && \
60         log_must $ZFS destroy $TESTPOOL/$TESTFS1
61 #
62     [[ -e $TESTDIR/$TESTFILE1 ]] && log_must $RM -rf $TESTDIR/$TESTFILE1
63     [[ -e $TESTDIR/$TESTFILE2 ]] && log_must $RM -rf $TESTDIR/$TESTFILE2
64 }
65 #
66 log_onexit cleanup
67 #
68 log_must $ZFS create $TESTPOOL/$TESTFS1
69 #
70 space_avail='get_prop available $TESTPOOL'
71 #
72 #
73 # To make sure this test doesn't take too long to execute on
74 # large pools, we calculate a reservation setting which when
75 # applied to the dataset filesystem will ensure we have
76 # RESV_FREE_SPACE left free in the pool.
77 #
78 ((resv_size_set = space_avail - RESV_FREE_SPACE))
79 #
80 log_must $ZFS set reservation=$resv_size_set $TESTPOOL/$TESTFS1
81 #
82 space_avail_still='get_prop available $TESTPOOL'
83 #
84 fill_size='expr $space_avail_still + $RESV_TOLERANCE'
85 write_count='expr $fill_size / $BLOCK_SIZE'
86 #
87 # Now fill up the filesystem (which doesn't have a reservation set
88 # and thus will use up whatever free space is left in the pool).
89 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 -b $BLOCK_SIZE -c $write_count -d 0
90 ret=$?
91 if (($ret != $ENOSPC)); then
92     log_fail "Did not get ENOSPC as expected (got $ret)."
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_011_pos.sh 1

```
*****
2075 Fri Nov 22 15:21:40 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_011_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # ZFS has two mechanisms dealing with space for datasets, namely
39 # reservations and quotas. Setting one should not affect the other,
40 # provided the values are legal (i.e. enough space in pool etc).
41 #
42 # STRATEGY:
43 # 1) Create one filesystem
44 # 2) Get the current quota setting
45 # 3) Set a reservation
46 # 4) Verify that the quota value remains unchanged
47 #
48 #
49 verify_runnable "both"
50 #
51 log_assert "Verify reservation settings do not affect quota settings"
52 #
53 function cleanup
54 {
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_011_pos.sh 2

```
55     log_must zero_reservation $TESTPOOL/$TESTFS
56 }
57 #
58 log_onexit cleanup
59 #
60 space_avail='get_prop available $TESTPOOL'
61 #
62 ((resv_size_set = (space_avail - RESV_DELTA) / 2))
63 #
64 fs_quota='$ZFS get quota $TESTPOOL/$TESTFS'
65 #
66 log_must $ZFS set reservation=$resv_size_set $TESTPOOL/$TESTFS
67 #
68 new_fs_quota='$ZFS get quota $TESTPOOL/$TESTFS'
69 #
70 if [[ $fs_quota != $new_fs_quota ]]; then
71     log_fail "Quota value on $TESTFS has changed " \
72         "($fs_quota != $new_fs_quota)"
73 fi
74 #
75 log_pass "Quota settings unaffected by reservation settings"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_012_pos.sh 1

```
*****
2646 Fri Nov 22 15:21:40 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_012_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # A reservation guarantees a certain amount of space for a dataset.
39 # Nothing else which happens in the same pool should affect that
40 # space, i.e. even if the rest of the pool fills up the reserved
41 # space should still be accessible.
42 #
43 # STRATEGY:
44 # 1) Create 2 filesystems
45 # 2) Set a reservation on one filesystem
46 # 3) Fill up the other filesystem (which does not have a reservation
47 # set) until all space is consumed
48 # 4) Verify can still write to the filesystem which has a reservation
49 #
50 #
51 verify_runnable "both"
52 #
53 log_assert "Verify reservations protect space"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_012_pos.sh 2

```
55 function cleanup
56 {
57     log_must $ZFS destroy -f $TESTPOOL/$TESTFS2
58     log_must zero_reservation $TESTPOOL/$TESTFS
59
60     [[ -e $TESTDIR/$TESTFILE2 ]] && log_must $RM -rf $TESTDIR/$TESTFILE2
61     [[ -d $TESTDIR2 ]] && log_must $RM -rf $TESTDIR2
62 }
63 #
64 log_onexit cleanup
65 #
66 log_must $ZFS create $TESTPOOL/$TESTFS2
67 log_must $ZFS set mountpoint=$TESTDIR2 $TESTPOOL/$TESTFS2
68 #
69 space_avail='get_prop available $TESTPOOL'
70 #
71 ((resv_size_set = space_avail - RESV_FREE_SPACE))
72 #
73 log_must $ZFS set reservation=$resv_size_set $TESTPOOL/$TESTFS
74 #
75 ((write_count = (RESV_FREE_SPACE + RESV_TOLERANCE) / BLOCK_SIZE))
76 #
77 $FILE_WRITE -o create -f $TESTDIR2/$TESTFILE1 -b $BLOCK_SIZE -c $write_count \
78     -d 0
79 ret=$?
80 if [[ $ret != $ENOSPC ]]; then
81     log_fail "Did not get ENOSPC (got $ret) for non-reserved filesystem"
82 fi
83 #
84 ((write_count = (RESV_FREE_SPACE - RESV_TOLERANCE) / BLOCK_SIZE))
85 log_must $FILE_WRITE -o create -f $TESTDIR/$TESTFILE2 -b $BLOCK_SIZE -c \
86     $write_count -d 0
87 #
88 log_pass "Reserved space preserved correctly"
```


new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_013_pos.sh 1

```
*****
3480 Fri Nov 22 15:21:40 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_013_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Reservation properties on data objects should be preserved when the
39 # pool within which they are contained is exported and then re-imported.
40 #
41 #
42 # STRATEGY:
43 # 1) Create a filesystem as dataset
44 # 2) Create another filesystem at the same level
45 # 3) Create a regular volume at the same level
46 # 4) Create a sparse volume at the same level
47 # 5) Create a filesystem within the dataset filesystem
48 # 6) Set reservations on all filesystems
49 # 7) Export the pool
50 # 8) Re-import the pool
51 # 9) Verify that the reservation settings are correct
52 #
53 #
54 verify_runnable "global"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_013_pos.sh 2

```
56 log_assert "Reservation properties preserved across exports and imports"
57 #
58 function cleanup
59 {
60     for obj in $OBJ_LIST; do
61         datasetexists $obj && log_must $ZFS destroy -f $obj
62     done
63 #
64     log_must zero_reservation $TESTPOOL/$TESTFS
65 }
66 log_onexit cleanup
67 #
68 OBJ_LIST="$TESTPOOL/$TESTFS1/$TESTFS2 $TESTPOOL/$TESTFS1 $TESTPOOL/$TESTVOL \
69     $TESTPOOL/$TESTVOL2"
70 #
71 log_must $ZFS create $TESTPOOL/$TESTFS1
72 log_must $ZFS create $TESTPOOL/$TESTFS1/$TESTFS2
73 #
74 space_avail=$(get_prop available $TESTPOOL)
75 [[ $? -ne 0 ]] && \
76     log_fail "Unable to get space available property for $TESTPOOL"
77 #
78 ((resv_set = space_avail / 5))
79 resv_set=$(floor_volsize $resv_set)
80 ((sparse_vol_set_size = space_avail * 5))
81 sparse_vol_set_size=$(floor_volsize $sparse_vol_set_size)
82 #
83 # When initially created, a regular volume's reservation property is set
84 # equal to its size (unlike a sparse volume), so we don't need to set it
85 # explicitly later on
86 log_must $ZFS create -V $resv_set $TESTPOOL/$TESTVOL
87 log_must $ZFS create -s -V $sparse_vol_set_size $TESTPOOL/$TESTVOL2
88 #
89 log_must $ZFS set reservation=$resv_set $TESTPOOL/$TESTFS
90 log_must $ZFS set reservation=$resv_set $TESTPOOL/$TESTFS1
91 log_must $ZFS set reservation=$resv_set $TESTPOOL/$TESTFS1/$TESTFS2
92 log_must $ZFS set reservation=$resv_set $TESTPOOL/$TESTVOL2
93 #
94 log_must $ZPOOL export $TESTPOOL
95 log_must $ZPOOL import $TESTPOOL
96 #
97 for obj in $TESTPOOL/$TESTFS $OBJ_LIST; do
98 #
99     if [[ $obj == $TESTPOOL/$TESTVOL ]]; then
100         expected=$(volsize_to_reservation $obj $resv_set)
101         found=$(get_prop refreservation $obj)
102     else
103         expected=$resv_set
104         found=$(get_prop reservation $obj)
105     fi
106 #
107     [[ $found != $expected ]] && \
108         log_fail "Reservation property for $obj incorrect. Expected " \
109             "$expected but got $found."
110 done
111 #
112 log_pass "Reservation properties preserved across exports and imports"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_014_pos.sh 1

```
*****
3361 Fri Nov 22 15:21:41 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_014_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # A reservation cannot exceed the quota on a dataset
39 #
40 # STRATEGY:
41 # 1) Create a filesystem and volume
42 # 2) Set a quota on the filesystem
43 # 3) Attempt to set a reservation larger than the quota. Verify
44 # that the attempt fails.
45 # 4) Repeat 2-3 for volume
46 #
47 #
48 verify_runnable "both"
49 #
50 log_assert "Verify cannot set reservation larger than quota"
51 #
52 function cleanup
53 {
54 #
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_014_pos.sh 2

```
55 # Note we don't destroy $TESTFS as it's used by other tests
56 for obj in $OBJ_LIST ; do
57     datasetexists $obj && log_must $ZFS destroy -f $obj
58 done
59 #
60     log_must zero_reservation $TESTPOOL/$TESTFS
61 }
62 log_onexit cleanup
63 #
64 space_avail='get_prop available $TESTPOOL'
65 #
66 if ! is_global_zone ; then
67     OBJ_LIST=""
68 else
69     OBJ_LIST="$TESTPOOL/$TESTVOL $TESTPOOL/$TESTVOL2"
70 #
71     ((vol_set_size = space_avail / 4))
72     vol_set_size=$((floor_volsize $vol_set_size))
73     ((sparse_vol_set_size = space_avail * 4))
74     sparse_vol_set_size=$((floor_volsize $sparse_vol_set_size))
75 #
76     log_must $ZFS create -V $vol_set_size $TESTPOOL/$TESTVOL
77     log_must $ZFS create -s -V $sparse_vol_set_size $TESTPOOL/$TESTVOL2
78 fi
79 #
80 for obj in $TESTPOOL/$TESTFS $OBJ_LIST ; do
81 #
82     space_avail='get_prop available $TESTPOOL'
83     ((quota_set_size = space_avail / 3))
84 #
85     #
86     # A regular (non-sparse) volume's size is effectively
87     # its quota so only need to explicitly set quotas for
88     # filesystems and datasets.
89     #
90     # A volumes size is effectively its quota. The maximum
91     # reservation value that can be set on a volume is
92     # determined by the size of the volume or the amount of
93     # space in the pool, whichever is smaller.
94     #
95     if [[ $obj == $TESTPOOL/$TESTFS ]]; then
96         log_must $ZFS set quota=$quota_set_size $obj
97         ((resv_set_size = quota_set_size + RESV_SIZE))
98     #
99     elif [[ $obj == $TESTPOOL/$TESTVOL2 ]]; then
100 #
101         ((resv_set_size = sparse_vol_set_size + RESV_SIZE))
102 #
103     elif [[ $obj == $TESTPOOL/$TESTVOL ]]; then
104 #
105         ((resv_set_size = vol_set_size + RESV_SIZE))
106     fi
107 #
108     orig_quota='get_prop quota $obj'
109 #
110     log_mustnot $ZFS set reservation=$resv_set_size $obj
111     new_quota='get_prop quota $obj'
112 #
113     if [[ $orig_quota != $new_quota ]]; then
114         log_fail "Quota value changed from $orig_quota " \
115             "to $new_quota"
116     fi
117 #
118     if [[ $obj == $TESTPOOL/$TESTFS ]]; then
119         log_must $ZFS set quota=none $obj
120     fi
```

```
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_014_pos.sh 3
```

```
121 done
```

```
123 log_pass "As expected cannot set reservation larger than quota"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_015_pos.sh 1

```
*****
3168 Fri Nov 22 15:21:41 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_015_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 # . $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # In pool with a full filesystem and a regular volume with an implicit
39 # reservation, setting the reservation on the volume to 'none' should allow
40 # more data to be written to the filesystem.
41 #
42 #
43 # STRATEGY:
44 # 1) Create a regular non-sparse volume (which implicitly sets the reservation
45 # property to a value equal to the volume size)
46 # 2) Create a filesystem at the same level
47 # 3) Fill up the filesystem
48 # 4) Set the reservation on the volume to 'none'
49 # 5) Verify can write more data to the filesystem
50 #
51 #
52 verify_runnable "global"
53 #
54 log_assert "Setting volume reservation to 'none' allows more data to be " \
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_015_pos.sh 2

```
55 "written to top level filesystem"
56 #
57 function cleanup
58 {
59     datasetexists $TESTPOOL/$TESTVOL && \
60     log_must $ZFS destroy $TESTPOOL/$TESTVOL
61 #
62     [[ -e $TESTDIR/$TESTFILE1 ]] && log_must $RM -rf $TESTDIR/$TESTFILE1
63     [[ -e $TESTDIR/$TESTFILE2 ]] && log_must $RM -rf $TESTDIR/$TESTFILE2
64 }
65 log_onexit cleanup
66 #
67 space_avail=$(largest_volsize_from_pool $TESTPOOL)
68 #
69 #
70 # To make sure this test doesn't take too long to execute on
71 # large pools, we calculate a volume size which when applied
72 # to the volume will ensure we have RESV_FREE_SPACE
73 # left free in the pool which we can quickly fill.
74 #
75 ((resv_size_set = space_avail - RESV_FREE_SPACE))
76 resv_size_set=$((floor_volsize $resv_size_set))
77 #
78 log_must $ZFS create -V $resv_size_set $TESTPOOL/$TESTVOL
79 #
80 space_avail_still='get_prop available $TESTPOOL'
81 #
82 fill_size=$((space_avail_still + $RESV_TOLERANCE))
83 write_count=$((fill_size / BLOCK_SIZE))
84 #
85 # Now fill up the filesystem (which doesn't have a reservation set
86 # and thus will use up whatever free space is left in the pool).
87 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 -b $BLOCK_SIZE -c $write_count -d 0
88 ret=$?
89 if (($ret != $ENOSPC)); then
90     log_fail "Did not get ENOSPC as expected (got $ret)."
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_016_pos.sh 1

```
*****
3040 Fri Nov 22 15:21:41 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_016_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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Reviewed by: Will Guyette <will.guyette@delphix.com>
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32 # . $STF_SUITE/include/libtest.shlib
33 # . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # In pool with a full filesystem and a regular volume (with implicit
39 # reservation) destroying the volume should allow more data to be written
40 # to the filesystem
41 #
42 #
43 # STRATEGY:
44 # 1) Create a regular (non-sparse) volume
45 # 2) Create a filesystem at the same level
46 # 3) Fill up the filesystem
47 # 4) Destroy the volume
48 # 5) Verify can write more data to the filesystem
49 #
50 #
51 verify_runnable "global"
52 #
53 log_assert "Destroying a regular volume with reservation allows more data to" \
54 " be written to top level filesystem"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_016_pos.sh 2

```
56 function cleanup
57 {
58     datasetexists $TESTPOOL/$TESTVOL && \
59     log_must $ZFS destroy $TESTPOOL/$TESTVOL
60 #
61     [[ -e $TESTDIR/$TESTFILE1 ]] && log_must $RM -rf $TESTDIR/$TESTFILE1
62     [[ -e $TESTDIR/$TESTFILE2 ]] && log_must $RM -rf $TESTDIR/$TESTFILE2
63 }
64 log_onexit cleanup
65 #
66 space_avail=$(largest_volsize_from_pool $TESTPOOL)
67 #
68 #
69 # To make sure this test doesn't take too long to execute on
70 # large pools, we calculate a volume size which will ensure we
71 # have RESV_FREE_SPACE left free in the pool.
72 #
73 ((vol_set_size = space_avail - RESV_FREE_SPACE))
74 vol_set_size=$((floor_volsize $vol_set_size))
75 #
76 # Creating a regular volume implicitly sets its reservation
77 # property to the same value.
78 log_must $ZFS create -V $vol_set_size $TESTPOOL/$TESTVOL
79 #
80 space_avail_still=$(get_prop available $TESTPOOL)
81 fill_size=$((space_avail_still + $RESV_TOLERANCE))
82 write_count=$((fill_size / BLOCK_SIZE))
83 #
84 # Now fill up the filesystem (which doesn't have a reservation set
85 # and thus will use up whatever free space is left in the pool).
86 $FILE_WRITE -o create -f $TESTDIR/$TESTFILE1 -b $BLOCK_SIZE -c $write_count -d 0
87 ret=?
88 if (($ret != $ENOSPC)); then
89     log_fail "Did not get ENOSPC as expected (got $ret)."
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_017_pos.sh 1

```
*****
3106 Fri Nov 22 15:21:42 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_017_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # For a sparse volume changes to the volsize are not reflected in the
39 # reservation.
40 #
41 # STRATEGY:
42 # 1) Create a regular and sparse volume
43 # 2) Get the space available in the pool
44 # 3) Set reservation with various sizes on the regular and sparse volumes
45 # 4) Verify that the 'reservation' property for the regular volume has
46 # the correct value.
47 # 5) Verify that the 'reservation' property for the sparse volume is set to
48 # 'none'
49 #
50 #
51 verify_runnable "global"
52 #
53 function cleanup
54 {
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_017_pos.sh 2

```
55 typeset vol
56 #
57 for vol in $regvol $sparsevol; do
58     datasetexists $vol && log_must $ZFS destroy $vol
59 done
60 }
61 log_onexit cleanup
62 #
63 log_assert "Verify that the volsize changes of sparse volumes are not " \
64 "reflected in the reservation."
65 log_onexit cleanup
66 #
67 # Create a regular and sparse volume for testing.
68 regvol=$TESTPOOL/$TESTVOL
69 sparsevol=$TESTPOOL/$TESTVOL2
70 log_must $ZFS create -V 64M $regvol
71 log_must $ZFS create -s -V 64M $sparsevol
72 #
73 typeset -i vsize=$(get_prop available $TESTPOOL)
74 typeset -i iterate=10
75 typeset -i regreserv
76 typeset -i sparsereserv
77 typeset -i volblocksize=$(get_prop volblocksize $regvol)
78 typeset -i blknum=0
79 typeset -i randombknum
80 ((blknum = vsize / volblocksize))
81 #
82 while ((iterate > 1)); do
83     ((randombknum = 1 + RANDOM % blknum))
84     # Make sure volsize is a multiple of volume block size
85     ((vsize = randombknum * volblocksize))
86     log_must $ZFS set volsize=$vsize $regvol
87     log_must $ZFS set volsize=$vsize $sparsevol
88     vsize=$(volsize_to_reservation $regvol $vsize)
89     regreserv=$(get_prop reservation $regvol)
90     sparsereserv=$(get_prop reservation $sparsevol)
91     ((sparsereserv == vsize)) && \
92         log_fail "volsize changes of sparse volume is reflected in " \
93         "reservation (expected $vsize, got $sparsereserv)."
94     ((regreserv != vsize)) && \
95         log_fail "volsize changes of regular volume is not reflected " \
96         "in reservation (expected $vsize, got $regreserv)."
97     ((iterate = iterate - 1))
98 done
99 #
100 log_pass "The volsize changes of sparse volumes are not reflected in the " \
101 "reservation"
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_018_pos.sh 1

```
*****
2082 Fri Nov 22 15:21:42 2013
new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_018_pos.sh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/reservation/reservation.shlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 # Verify that reservation doesn't inherit its value from parent.
39 #
40 # STRATEGY:
41 # 1) Create a filesystem tree
42 # 2) Set reservation for parents
43 # 3) Verify that the 'reservation' for descendent doesnot inherit the value.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     datasetexists $fs_child && log_must $ZFS destroy $fs_child
51     log_must $ZFS set reservation=$reserv_val $fs
52 }
53 #
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/reservation/reservation_018_pos.sh 2

```
55 log_assert "Verify that reservation doesnot inherit its value from parent."
56 #
57 #
58 fs=$TESTPOOL/$TESTFS
59 fs_child=$TESTPOOL/$TESTFS/$TESTFS
60 #
61 space_avail=$(get_prop available $fs)
62 reserv_val=$(get_prop reservation $fs)
63 typeset -l reservsize=$space_avail
64 ((reservsize = reservsize / 2))
65 log_must $ZFS set reservation=$reservsize $fs
66 #
67 log_must $ZFS create $fs_child
68 rsv_space=$(get_prop reservation $fs_child)
69 [[ $rsv_space == $reservsize ]] && \
70     log_fail "The reservation of child dataset inherits its value from parent."
71 #
72 log_pass "reservation doesnot inherit its value from parent as expected."
```

new/usr/src/test/zfs-tests/tests/functional/reservation/setup.ksh

1

1058 Fri Nov 22 15:21:43 2013

new/usr/src/test/zfs-tests/tests/functional/reservation/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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27 #
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_setup_noexit ${DISKS%% *}
35 log_pass
```


new/usr/src/test/zfs-tests/tests/functional/rootpool/Makefile

1

879 Fri Nov 22 15:21:43 2013

new/usr/src/test/zfs-tests/tests/functional/rootpool/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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```

```
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/rootpool
```

```
21 PROGS = cleanup \
22         rootpool_002_neg \
23         rootpool_003_neg \
24         rootpool_007_neg \
25         setup
```

```
27 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
28 $(CMDS) := FILEMODE = 0555
```

```
30 all lint clean clobber:
```

```
32 install: $(CMDS)
```

```
34 $(CMDS): $(TESTDIR)
```

```
36 $(TESTDIR):
37     $(INS.dir)
```

```
39 $(TESTDIR)/%: %.ksh
40     $(INS.rename)
```

```
42 $(TESTDIR)/%: %
43     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/cleanup.ksh

1

1057 Fri Nov 22 15:21:43 2013

new/usr/src/test/zfs-tests/tests/functional/rootpool/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_002_neg.ksh 1

```
*****
2050 Fri Nov 22 15:21:44 2013
new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_002_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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4209 Populate zfstest with the remainder of the STF tests
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # the zfs rootpool can not be destroyed
38 #
39 # STRATEGY:
40 # 1) check if the current system is installed as zfs root
41 # 2) get the rootpool
42 # 3) try to destroy the rootpool, which should fail.
43 # 4) try to destroy the rootpool filesystem, which should fail.
44 #
45 #
46 verify_runnable "global"
47 log_assert "zpool/zfs destroy <rootpool> should return error"
48 #
49 typeset rootpool=$(get_rootpool)
50 typeset tmpfile="/tmp/mounted-datasets.$$"
51 #
52 # Collect the currently mounted ZFS filesystems, so that we can repair any
53 # damage done by the attempted pool destroy. The destroy itself should fail, but
54 # some filesystems can become unmounted in the process, and aren't automatically
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_002_neg.ksh 2

```
55 # remounted.
56 $MOUNT -p | $AWK '{if ($4 == "zfs") print $1" "$3}' > $tmpfile
57 #
58 log_mustnot $ZPOOL destroy $rootpool
59 #
60 # Remount any filesystems that the destroy attempt unmounted.
61 while read ds mntpt; do
62     mounted $ds || log_must $MOUNT -Fzfs $ds $mntpt
63 done < $tmpfile
64 $RM -f $tmpfile
65 #
66 log_mustnot $ZFS destroy $rootpool
67 #
68 log_pass "rootpool can not be destroyed"
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_003_neg.ksh 1

```
*****
1825 Fri Nov 22 15:21:44 2013
new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_003_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # system related filesystems can not be renamed or destroyed
38 #
39 # STRATEGY:
40 #
41 # 1) check if the current system is installed as zfs rootfs
42 # 2) get the rootfs
43 # 3) try to rename the rootfs to some newfs, which should fail.
44 # 4) try to destroy the rootfs, which should fail.
45 # 5) try to destroy the rootfs with -f which should fail
46 # 6) try to destroy the rootfs with -fR which should fail
47 #
48 #
49 verify_runnable "global"
50 log_assert "system related filesystems can not be renamed or destroyed"
51 #
52 typeset rootpool=$(get_rootpool)
53 typeset rootfs=$(get_rootfs)
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_003_neg.ksh 2

```
55 log_mustnot $ZFS rename $rootfs $rootpool/newfs
56 log_mustnot $ZFS rename -f $rootfs $rootpool/newfs
57 #
58 log_mustnot $ZFS destroy $rootfs
59 log_mustnot $ZFS destroy -f $rootfs
60 #
61 log_pass "system related filesystems can not be renamed or destroyed"
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_007_neg.ksh 1

```
*****
1903 Fri Nov 22 15:21:44 2013
new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_007_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # the zfs rootfilesystem's compression property can not set to gzip[1-9]
38 #
39 # STRATEGY:
40 # 1) check if the current system is installed as zfs root
41 # 2) get the rootfs
42 # 3) set the rootfs's compression to gzip 1-9 which should fail.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup {
48     log_must $ZFS set compression=$orig_compress $rootfs
49 }
50 #
51 log_onexit cleanup
52 log_assert $assert_msg
53 #
54 typeset rootpool=$(get_rootpool)
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/rootpool_007_neg.ksh 2

```
55 typeset rootfs=$(get_pool_prop bootfs $rootpool)
56 typeset orig_compress=$(get_prop compression $rootfs)
57 #
58 typeset assert_msg="the zfs rootfs's compression property can not set to \
59     gzip and gzip[1-9]"
60 #
61 set -A gtype "gzip" "gzip-1" "gzip-2" "gzip-3" "gzip-4" "gzip-5" \
62     "gzip-6" "gzip-7" "gzip-8" "gzip-9"
63 #
64 typeset -i i=0
65 while (( i < ${#gtype[@]} )); do
66     log_mustnot $ZFS set compression=${gtype[i]} $rootfs
67     (( i += 1 ))
68 done
69 #
70 log_pass $assert_msg
```

new/usr/src/test/zfs-tests/tests/functional/rootpool/setup.ksh

1

1040 Fri Nov 22 15:21:45 2013

new/usr/src/test/zfs-tests/tests/functional/rootpool/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
```

new/usr/src/test/zfs-tests/tests/functional/rsend/Makefile

1

```
1096 Fri Nov 22 15:21:45 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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Reviewed by: Eric Diven <eric.diven@delphix.com>
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11 #
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14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/rsend
20 #
21 PROGS = cleanup \
22         rsend_001_pos \
23         rsend_002_pos \
24         rsend_003_pos \
25         rsend_004_pos \
26         rsend_005_pos \
27         rsend_006_pos \
28         rsend_007_pos \
29         rsend_008_pos \
30         rsend_009_pos \
31         rsend_010_pos \
32         rsend_011_pos \
33         rsend_012_pos \
34         rsend_013_pos \
35         setup
36 #
37 FILES = rsend.cfg \
38         rsend.kshlib
39 #
40 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
41 $(CMDS) := FILEMODE = 0555
42 #
43 all lint clean clobber:
44 #
45 install: $(CMDS)
46 #
47 $(CMDS): $(TESTDIR)
48 #
49 $(TESTDIR):
50     $(INS.dir)
51 #
52 $(TESTDIR)/%: %.ksh
53     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/rsend/Makefile

2

```
55 $(TESTDIR)/%: %
56     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/rsend/cleanup.ksh

1

1365 Fri Nov 22 15:21:45 2013

new/usr/src/test/zfs-tests/tests/functional/rsend/cleanup.ksh
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4207 history_008_pos depends on obsolete internal history log message
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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 verify_runnable "both"
35 #
36 #
37 # Check if the system support 'send -R'
38 #
39 $ZFS send 2>&1 | $GREP "\[-[a-zA-Z]*R[a-zA-Z]*\]" >/dev/null 2>&1
40 if (($? != 0)); then
41     log_unsupported
42 fi
43 #
44 if is_global_zone ; then
45     destroy_pool $POOL
46     destroy_pool $POOL2
47 else
48     cleanup_pool $POOL
49     cleanup_pool $POOL2
50 fi
51 log_must $RM -rf $BACKDIR $TESTDIR
52 #
53 log_pass
```


new/usr/src/test/zfs-tests/tests/functional/rsend/rsend.cfg

1

1139 Fri Nov 22 15:21:46 2013

new/usr/src/test/zfs-tests/tests/functional/rsend/rsend.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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25 #
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28 #
29 #
30 export BACKDIR=${TEST_BASE_DIR%*/}/backdir-rsend
31 #
32 export DISK1=$(ECHO $DISKS | $AWK '{print $1}')
33 export DISK2=$(ECHO $DISKS | $AWK '{print $2}')
34 #
35 export POOL=$TESTPOOL
36 export POOL2=$TESTPOOL1
37 export FS=$TESTFS
```

```

*****
      8131 Fri Nov 22 15:21:46 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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*****

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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/rsend/rsend.cfg
33 #
34 # Set up test model which includes various datasets
35 #
36 #
37 #
38 #
39 #
40 #
41 #
42 #
43 #
44 #
45 #
46 #
47 #
48 #
49 #
50 # $pool ----- $FS ----- fs1 ----- fs2
51 #
52 #
53 #
54 #

```

```

55 #
56 #
57 #
58 #
59 #
60 #
61 #
62 #
63 # $1 pool name
64 #
65 function setup_test_model
66 {
67     typeset pool=$1
68 #
69     log_must $ZFS create -p $pool/$FS/fs1/fs2
70 #
71     log_must $ZFS snapshot $pool@psnap
72     log_must $ZFS clone $pool@psnap $pool/pclone
73 #
74     if is_global_zone ; then
75         log_must $ZFS create -V 16M $pool/vol
76         log_must $ZFS create -V 16M $pool/$FS/vol
77 #
78         log_must $ZFS snapshot $pool/$FS/vol@vsnap
79         log_must $ZFS clone $pool/$FS/vol@vsnap $pool/$FS/vclone
80     fi
81 #
82     log_must snapshot_tree $pool/$FS/fs1/fs2@fsnap
83     log_must $ZFS clone $pool/$FS/fs1/fs2@fsnap $pool/$FS/fs1/fclone
84     log_must $ZFS snapshot -r $pool@init
85 #
86     log_must snapshot_tree $pool@snapA
87     log_must snapshot_tree $pool@snapB
88     log_must snapshot_tree $pool/pclone@snapB
89     log_must snapshot_tree $pool/$FS@snapB
90     log_must snapshot_tree $pool/$FS@snapC
91     log_must snapshot_tree $pool/$FS/fs1@snapA
92     log_must snapshot_tree $pool/$FS/fs1@snapB
93     log_must snapshot_tree $pool/$FS/fs1@snapC
94     log_must snapshot_tree $pool/$FS/fs1/fclone@snapA
95 #
96     if is_global_zone ; then
97         log_must $ZFS snapshot $pool/vol@snapA
98         log_must $ZFS snapshot $pool/$FS/vol@snapB
99         log_must $ZFS snapshot $pool/$FS/vol@snapC
100        log_must $ZFS snapshot $pool/$FS/vclone@snapC
101    fi
102 #
103     log_must $ZFS snapshot -r $pool@final
104 #
105     return 0
106 }
107 #
108 #
109 # Cleanup the BACKDIR and given pool content and all the sub datasets
110 #
111 # $1 pool name
112 #
113 function cleanup_pool
114 {
115     typeset pool=$1
116     log_must $RM -rf $BACKDIR/*
117 #
118     if is_global_zone ; then
119         log_must $ZFS destroy -Rf $pool
120     else

```

```

121         typeset list=$(ZFS list -H -r -t filesystem,snapshot,volume -o
122         for ds in $list ; do
123             if [[ $ds != $pool ]] ; then
124                 if datasetexists $ds ; then
125                     log_must ZFS destroy -Rf $ds
126                 fi
127             fi
128         done
129     fi

131     typeset mntpnt=$(get_prop mountpoint $pool)
132     if ! ismounted $pool ; then
133         # Make sure mountpoint directory is empty
134         if [[ -d $mntpnt ]] ; then
135             log_must $RM -rf $mntpnt/*
136         fi

138         log_must ZFS mount $pool
139     fi
140     if [[ -d $mntpnt ]] ; then
141         log_must $RM -rf $mntpnt/*
142     fi

144     return 0
145 }

147 #
148 # Detect if the given two filesystems have same sub-datasets
149 #
150 # $1 source filesystem
151 # $2 destination filesystem
152 #
153 function cmp_ds_subs
154 {
155     typeset src_fs=$1
156     typeset dst_fs=$2

158     ZFS list -r -H -t filesystem,snapshot,volume -o name $src_fs > $BACKDIR
159     ZFS list -r -H -t filesystem,snapshot,volume -o name $dst_fs > $BACKDIR

161     eval $SED -e 's:^$src_fs:PREFIX:g' < $BACKDIR/src1 > $BACKDIR/src
162     eval $SED -e 's:^$dst_fs:PREFIX:g' < $BACKDIR/dst1 > $BACKDIR/dst

164     $DIFF $BACKDIR/src $BACKDIR/dst
165     typeset -i ret=$?

167     $RM -f $BACKDIR/src $BACKDIR/dst $BACKDIR/src1 $BACKDIR/dst1

169     return $ret
170 }

172 #
173 # Compare all the directories and files in two filesystems
174 #
175 # $1 source filesystem
176 # $2 destination filesystem
177 #
178 function cmp_ds_cont
179 {
180     typeset src_fs=$1
181     typeset dst_fs=$2

183     typeset srcdir dstdir
184     srcdir=$(get_prop mountpoint $src_fs)
185     dstdir=$(get_prop mountpoint $dst_fs)

```

```

187     $DIFF -r $srcdir $dstdir > /dev/null 2>&1
188     echo $?
189 }

191 #
192 # Compare the given two dataset properties
193 #
194 # $1 dataset 1
195 # $2 dataset 2
196 #
197 function cmp_ds_prop
198 {
199     typeset dtst1=$1
200     typeset dtst2=$2

202     for item in "type" "origin" "volblocksize" "aclinherit" "aclmode" \
203         "atime" "canmount" "checksum" "compression" "copies" "devices" \
204         "exec" "quota" "readonly" "recordsize" "reservation" "setuid" \
205         "sharenfs" "snapdir" "version" "volsize" "xattr" "zoned" \
206         "mountpoint";
207     do
208         ZFS get -H -o property,value,source $item $dtst1 >> \
209             $BACKDIR/dtst1
210         ZFS get -H -o property,value,source $item $dtst2 >> \
211             $BACKDIR/dtst2
212     done

214     eval $SED -e 's:$dtst1:PREFIX:g' < $BACKDIR/dtst1 > $BACKDIR/dtst1
215     eval $SED -e 's:$dtst2:PREFIX:g' < $BACKDIR/dtst2 > $BACKDIR/dtst2

217     $DIFF $BACKDIR/dtst1 $BACKDIR/dtst2
218     typeset -i ret=$?

220     $RM -f $BACKDIR/dtst1 $BACKDIR/dtst2

222     return $ret

224 }

226 #
227 # Random create directories and files
228 #
229 # $1 directory
230 #
231 function random_tree
232 {
233     typeset dir=$1

235     if [[ -d $dir ]] ; then
236         $RM -rf $dir
237     fi
238     $MKDIR -p $dir
239     typeset -i ret=$?

241     typeset -i nl nd nf
242     ((nl = RANDOM % 6 + 1))
243     ((nd = RANDOM % 3))
244     ((nf = RANDOM % 5))
245     $MKTREE -b $dir -l $nl -d $nd -f $nf
246     ((ret |= $?))

248     return $ret
249 }

251 #
252 # Put data in filesystem and take snapshot

```

```

253 #
254 # $1 snapshot name
255 #
256 function snapshot_tree
257 {
258     typeset snap=$1
259     typeset ds=${snap%%@*}
260     typeset type=$(get_prop "type" $ds)
261
262     typeset -i ret=0
263     if [[ $type == "filesystem" ]]; then
264         typeset mntpnt=$(get_prop mountpoint $ds)
265         ((ret |= $?))
266
267         if ((ret == 0)) ; then
268             eval random_tree $mntpnt/${snap##$ds}
269             ((ret |= $?))
270         fi
271     fi
272
273     if ((ret == 0)) ; then
274         $ZFS snapshot $snap
275         ((ret |= $?))
276     fi
277
278     return $ret
279 }
280
281 #
282 # Destroy the given snapshot and stuff
283 #
284 # $1 snapshot
285 #
286 function destroy_tree
287 {
288     typeset -i ret=0
289     typeset snap
290     for snap in "$@" ; do
291         $ZFS destroy $snap
292         ret=$?
293
294         typeset ds=${snap%%@*}
295         typeset type=$(get_prop "type" $ds)
296         if [[ $type == "filesystem" ]]; then
297             typeset mntpnt=$(get_prop mountpoint $ds)
298             ((ret |= $?))
299
300             if ((ret != 0)); then
301                 $RM -r $mntpnt/$snap
302                 ((ret |= $?))
303             fi
304         fi
305
306         if ((ret != 0)); then
307             return $ret
308         fi
309     done
310
311     return 0
312 }
313
314 #
315 # Get all the sub-datasets of give dataset with specific suffix
316 #
317 # $1 Given dataset
318 # $2 Suffix

```

```

319 #
320 function getds_with_suffix
321 {
322     typeset ds=$1
323     typeset suffix=$2
324
325     typeset list=$(($ZFS list -r -H -t filesystem,snapshot,volume -o name $ds
326         | $GREP "$suffix$")
327
328     $ECHO $list
329 }
330
331 #
332 # Output inherited properties which is edited for file system
333 #
334 function fs_inherit_prop
335 {
336     typeset fs_prop
337     if is_global_zone ; then
338         fs_prop=$(($ZFS inherit 2>&1 | \
339             $AWK ' $2=="YES" && $3=="YES" {print $1}' )
340         if ! is_te_enabled ; then
341             fs_prop=$(echo $fs_prop | $GREP -v "mlslabel")
342         fi
343     else
344         fs_prop=$(($ZFS inherit 2>&1 | \
345             $AWK ' $2=="YES" && $3=="YES" {print $1}' |
346             $EGREP -v "devices|mlslabel|sharedfs|sharesmb|zoned")
347     fi
348
349     $ECHO $fs_prop
350 }
351
352 #
353 # Output inherited properties for volume
354 #
355 function vol_inherit_prop
356 {
357     $ECHO "checksum readonly"
358 }
359
360 #
361 # Get the destination dataset to compare
362 #
363 function get_dst_ds
364 {
365     typeset srcfs=$1
366     typeset dstfs=$2
367
368     #
369     # If the srcfs is not pool
370     #
371     if ! $ZPOOL list $srcfs > /dev/null 2>&1 ; then
372         eval dstfs="$dstfs/${srcfs##*/}"
373     fi
374
375     $ECHO $dstfs
376 }

```

new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_001_pos.ksh 1

```
*****
2180 Fri Nov 22 15:21:46 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs send -R send replication stream up to the named snap.
37 #
38 # STRATEGY:
39 #     1. Back up all the data from POOL/FS
40 #     2. Verify all the datasets and data can be recovered in POOL2
41 #     3. Back up all the data from root filesystem POOL2
42 #     4. Verify all the data can be recovered, too
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "zfs send -R send replication stream up to the named snap."
48 log_onexit cleanup_pool $POOL2
49 #
50 #
51 # Verify the entire pool and sub-ds can be backup and restored.
52 #
53 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-final-R"
54 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-final-R"
```

new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_001_pos.ksh 2

```
56 dstds=$(get_dst_ds $POOL $POOL2)
57 log_must cmp_ds_subs $POOL $dstds
58 log_must cmp_ds_cont $POOL $dstds
59 #
60 # Cleanup POOL2
61 log_must cleanup_pool $POOL2
62 #
63 #
64 # Verify all the filesystem and sub-fs can be backup and restored.
65 #
66 log_must eval "$ZFS send -R $POOL/$FS@final > $BACKDIR/fs-final-R"
67 log_must eval "$ZFS receive -d $POOL2 < $BACKDIR/fs-final-R"
68 #
69 dstds=$(get_dst_ds $POOL/$FS $POOL2)
70 log_must cmp_ds_subs $POOL/$FS $dstds
71 log_must cmp_ds_cont $POOL/$FS $dstds
72 #
73 log_pass "zfs send -R send replication stream up to the named snap."
```

```

*****
2853 Fri Nov 22 15:21:47 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs send -I sends all incrementals from fs@init to fs@final.
37 #
38 # STRATEGY:
39 #     1. Create several snapshots in pool2
40 #     2. Send -I @snapA @final
41 #     3. Destroy all the snapshot except @snapA
42 #     4. Make sure all the snapshots and content are recovered
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "zfs send -I sends all incrementals from fs@init to fs@final."
48 log_onexit cleanup_pool $POOL2
49 #
50 #
51 # Duplicate POOL2
52 #
53 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-R"
54 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-R"

```

```

56 if is_global_zone ; then
57 #
58 # Verify send -I will backup all the incrementals in pool
59 #
60 log_must eval "$ZFS send -I $POOL2@init $POOL2@final > " \
61     "$BACKDIR/pool-init-final-I"
62 log_must destroy_tree $POOL2@final $POOL2@snapC $POOL2@snapA
63 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-init-final-I"
64 log_must cmp_ds_subs $POOL $POOL2
65 log_must cmp_ds_cont $POOL $POOL2
66 fi
67 #
68 dstds=$(get_dst_ds $POOL $POOL2)
69 #
70 #
71 # Verify send -I will backup all the incrementals in filesystem
72 #
73 log_must eval "$ZFS send -I @init $dstds/$FS@final > $BACKDIR/fs-init-final-I"
74 log_must destroy_tree $dstds/$FS@final $dstds/$FS@snapC $dstds/$FS@snapB
75 log_must eval "$ZFS receive -d -F $dstds < $BACKDIR/fs-init-final-I"
76 log_must cmp_ds_subs $POOL $dstds
77 log_must cmp_ds_cont $POOL $dstds
78 #
79 if is_global_zone ; then
80 #
81 # Verify send -I will backup all the incrementals in volume
82 #
83 dataset=$POOL2/$FS/vol
84 log_must eval "$ZFS send -I @vsnap $dataset@final > " \
85     "$BACKDIR/vol-vsnap-final-I"
86 log_must destroy_tree $dataset@final $dataset@snapC \
87     $dataset@snapB $dataset@init
88 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/vol-vsnap-final-I"
89 log_must cmp_ds_subs $POOL $POOL2
90 log_must cmp_ds_cont $POOL $POOL2
91 fi
92 #
93 log_pass "zfs send -I sends all incrementals from fs@init to fs@final."

```

```

*****
2756 Fri Nov 22 15:21:47 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs send -I dataset@init to clone@snap can create a clone
37 #
38 # STRATEGY:
39 #     1. Setup test model
40 #     2. send -I pool@init to clone@snap
41 #     3. Verify the clone and snapshot can be recovered via receive
42 #     4. Verify the similar operating in filesystem and volume
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "zfs send -I send all incrementals from dataset@init to clone@snap"
48 log_onexit cleanup_pool $POOL2
49 #
50 #
51 # Duplicate POOL2
52 #
53 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-R"
54 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-R"

```

```

56 if is_global_zone ; then
57 #
58 # Verify send -I backup all incrementals from pool
59 #
60 log_must eval "$ZFS send -I $POOL2@psnap $POOL2/pclone@final > " \
61     "$BACKDIR/pool-clone-I"
62 log_must $ZFS destroy -rf $POOL2/pclone
63 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-clone-I"
64 log_must cmp_ds_subs $POOL $POOL2
65 log_must cmp_ds_cont $POOL $POOL2
66 fi
67 #
68 dstds=$(get_dst_ds $POOL $POOL2)
69 #
70 #
71 # Verify send -I backup all incrementals from filesystem
72 #
73 ds=$dstds/$FS/fs1
74 log_must eval "$ZFS send -I $ds/fs2@fsnap $ds/fclone@final > " \
75     "$BACKDIR/fs-clone-I"
76 log_must $ZFS destroy -rf $ds/fclone
77 log_must eval "$ZFS receive -F $ds/fclone < $BACKDIR/fs-clone-I"
78 #
79 log_must cmp_ds_subs $POOL $dstds
80 log_must cmp_ds_cont $POOL $dstds
81 #
82 if is_global_zone ; then
83 #
84 # Verify send -I backup all incrementals from volume
85 #
86 ds=$POOL2/$FS
87 log_must eval "$ZFS send -I $ds/vol@vsnop $ds/vclone@final > " \
88     "$BACKDIR/vol-clone-I"
89 log_must $ZFS destroy -rf $ds/vclone
90 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/vol-clone-I"
91 log_must cmp_ds_subs $POOL $POOL2
92 log_must cmp_ds_cont $POOL $POOL2
93 fi
94 #
95 log_pass "zfs send -I send all incrementals from dataset@init to clone@snap"

```

```

*****
3701 Fri Nov 22 15:21:47 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs send -R -i send incremental from fs@init to fs@final.
37 #
38 # STRATEGY:
39 #     1. Create a set of snapshots and fill with data.
40 #     2. Create sub filesystems.
41 #     3. Create final snapshot
42 #     4. Verify zfs send -R -i will backup all the datasets which has
43 #        snapshot suffix @final
44 #
45 #
46 verify_runnable "both"
47 #
48 log_assert "zfs send -R -i send incremental from fs@init to fs@final."
49 log_onexit cleanup_pool $POOL2
50 #
51 #
52 # Duplicate POOL2 for testing
53 #
54 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-final-R"

```

```

55 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-final-R"
56 #
57 if is_global_zone ; then
58 #
59 # Testing send -R -i backup from pool
60 #
61 srclist=$(getds_with_suffix $POOL2 @final)
62 interlist="$srclist $(getds_with_suffix $POOL2 @snapC)"
63 interlist="$interlist $(getds_with_suffix $POOL2 @snapB)"
64 interlist="$interlist $(getds_with_suffix $POOL2 @snapA)"
65 #
66 log_must eval "$ZFS send -R -i @init $POOL2@final > " \
67 "$BACKDIR/pool-init-final-iR"
68 log_must destroy_tree $interlist
69 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-init-final-iR"
70 #
71 # Get current datasets with suffix @final
72 dstlist=$(getds_with_suffix $POOL2 @final)
73 if [[ $srclist != $dstlist ]]; then
74     log_fail "Unexpected: srclist($srclist) != dstlist($dstlist)"
75 fi
76 log_must cmp_ds_cont $POOL $POOL2
77 fi
78 #
79 dstds=$(get_dst_ds $POOL $POOL2)
80 #
81 # Testing send -R -i backup from filesystem
82 #
83 log_must eval "$ZFS send -R -i @init $dstds/$FS@final > " \
84 "$BACKDIR/fs-init-final-iR"
85 #
86 srclist=$(getds_with_suffix $dstds/$FS @final)
87 interlist="$srclist $(getds_with_suffix $dstds/$FS @snapC)"
88 interlist="$interlist $(getds_with_suffix $dstds/$FS @snapB)"
89 interlist="$interlist $(getds_with_suffix $dstds/$FS @snapA)"
90 log_must destroy_tree $interlist
91 if is_global_zone ; then
92     log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/fs-init-final-iR"
93 else
94     $ZFS receive -F -d $dstds/$FS < $BACKDIR/fs-init-final-iR
95 fi
96 #
97 dstlist=$(getds_with_suffix $dstds/$FS @final)
98 if [[ $srclist != $dstlist ]]; then
99     log_fail "Unexpected: srclist($srclist) != dstlist($dstlist)"
100 fi
101 log_must cmp_ds_cont $POOL $POOL2
102 #
103 if is_global_zone ; then
104 #
105 # Testing send -R -i backup from volume
106 #
107 srclist=$(getds_with_suffix $POOL2/$FS/vol @final)
108 log_must eval "$ZFS send -R -i @init $POOL2/$FS/vol@final > " \
109 "$BACKDIR/vol-init-final-iR"
110 log_must destroy_tree $srclist
111 log_must eval "$ZFS receive -d $POOL2 < $BACKDIR/vol-init-final-iR"
112 #
113 dstlist=$(getds_with_suffix $POOL2/$FS/vol @final)
114 if [[ $srclist != $dstlist ]]; then
115     log_fail "Unexpected: srclist($srclist) != dstlist($dstlist)"
116 fi
117 log_must cmp_ds_cont $POOL $POOL2
118 fi
119 #
120 log_pass "zfs send -R -i send incremental from fs@init to fs@final."

```


`new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_004_pos.ksh`

3

```

*****
3203 Fri Nov 22 15:21:48 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs send -R -I send all the incremental between fs@init with fs@final
37 #
38 # STRATEGY:
39 #     1. Setup test model
40 #     2. Send -R -I @init @final on pool
41 #     3. Destroy all the snapshots which is later than @init
42 #     4. Verify receive can restore all the snapshots and data
43 #     5. Do the same test on filesystem and volume
44 #
45 #
46 verify_runnable "both"
47 #
48 log_assert "zfs send -R -I send all the incremental between @init with @final"
49 log_onexit cleanup_pool $POOL2
50 #
51 #
52 # Duplicate POOL2 for testing
53 #
54 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-final-R"

```

```

55 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-final-R"
56 #
57 if is_global_zone ; then
58 #
59 # Testing send -R -I from pool
60 #
61 log_must eval "$ZFS send -R -I @init $POOL2@final > " \
62 "$BACKDIR/pool-init-final-IR"
63 list=$(getds_with_suffix $POOL2 @snapA)
64 list="$list $(getds_with_suffix $POOL2 @snapB)"
65 list="$list $(getds_with_suffix $POOL2 @snapC)"
66 list="$list $(getds_with_suffix $POOL2 @final)"
67 log_must destroy_tree $list
68 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-init-final-IR"
69 log_must cmp_ds_cont $POOL $POOL2
70 fi
71 #
72 dstds=$(get_dst_ds $POOL $POOL2)
73 #
74 # Testing send -R -I from filesystem
75 #
76 log_must eval "$ZFS send -R -I @init $dstds/$FS@final > " \
77 "$BACKDIR/fs-init-final-IR"
78 list=$(getds_with_suffix $dstds/$FS @snapA)
79 list="$list $(getds_with_suffix $dstds/$FS @snapB)"
80 list="$list $(getds_with_suffix $dstds/$FS @snapC)"
81 list="$list $(getds_with_suffix $dstds/$FS @final)"
82 log_must destroy_tree $list
83 if is_global_zone ; then
84 log_must eval "$ZFS receive -d -F $dstds < $BACKDIR/fs-init-final-IR"
85 else
86 $ZFS receive -d -F $dstds < $BACKDIR/fs-init-final-IR
87 fi
88 log_must cmp_ds_subs $POOL $dstds
89 log_must cmp_ds_cont $POOL $dstds
90 #
91 if is_global_zone ; then
92 #
93 # Testing send -I -R for volume
94 #
95 vol=$POOL2/$FS/vol
96 log_must eval "$ZFS send -R -I @init $vol@final > " \
97 "$BACKDIR/vol-init-final-IR"
98 log_must destroy_tree $vol@snapB $vol@snapC $vol@final
99 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/vol-init-final-IR"
100 log_must cmp_ds_subs $POOL $POOL2
101 log_must cmp_ds_cont $POOL $POOL2
102 fi
103 #
104 log_pass "zfs send -R -I send all the incremental between @init with @final"

```

```

*****
2118 Fri Nov 22 15:21:48 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****

```

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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Rename snapshot name will not change the dependent order.
37 #
38 # STRATEGY:
39 #     1. Set up a set of datasets.
40 #     2. Rename part of snapshots.
41 #     3. Send -R all the POOL
42 #     4. Verify snapshot name will not change the dependent order.
43 #
44 #
45 verify_runnable "both"
46 #
47 #
48 #
49 set -A snaps      Source          Target
50 "$POOL@snapA"    "$POOL@snap0"  \
51 "$POOL@snapA"    "$POOL@snap1"  \
52 "$POOL@snapC"    "$POOL@snap2"  \
53 "$POOL@final"    "$POOL@init"
54 function cleanup

```

```

55 {
56     log_must cleanup_pool $POOL
57     log_must cleanup_pool $POOL2
58 #
59     log_must setup_test_model $POOL
60 }
61 #
62 log_assert "Rename snapshot name will not change the dependent order."
63 log_onexit cleanup
64 #
65 typeset -i i=0
66 while ((i < ${#snaps[@]})); do
67     log_must $ZFS rename -r ${snaps[$i]} ${snaps[((i+1))]}
68 #
69     ((i += 2))
70 done
71 #
72 #
73 # Duplicate POOL2 for testing
74 #
75 log_must eval "$ZFS send -R $POOL@init > $BACKDIR/pool-final-R"
76 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-final-R"
77 #
78 dstds=$(get_dst_ds $POOL $POOL2)
79 log_must cmp_ds_subs $POOL $dstds
80 log_must cmp_ds_cont $POOL $dstds
81 #
82 log_pass "Rename snapshot name will not change the dependent order."

```

```

*****
2779 Fri Nov 22 15:21:48 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Rename parent filesystem name will not change the dependent order.
37 #
38 # STRATEGY:
39 #     1. Separately rename pool clone, filesystem and volume name.
40 #     2. Send -R all the POOL
41 #     3. Verify renamed dataset will not change the snapshot dependent order.
42 #
43 #
44 verify_runnable "both"
45 #
46 set -A dtst \
47     "$POOL/pclone"          "$POOL/$FS/pclone"      \
48     "$POOL/$FS/fs1/fs2"    "$POOL/fs2"
49 if is_global_zone ; then
50     typeset -i n=${#dtst[@]}
51     dtst[(n)]="$POOL/vol";      dtst[(n+1)]="$POOL/$FS/fs1/vol"
52 fi
53 #
54 function cleanup

```

```

55 {
56     log_must cleanup_pool $POOL
57     log_must cleanup_pool $POOL2
58 #
59     log_must setup_test_model $POOL
60 }
61 #
62 log_assert "Rename parent filesystem name will not change the dependent order."
63 log_onexit cleanup
64 #
65 typeset -i i=0
66 while ((i < ${#dtst[@]})); do
67     log_must $ZFS rename ${dtst[$i]} ${dtst[(i+1)]}
68 #
69     ((i += 2))
70 done
71 #
72 #
73 # Verify zfs send -R should succeed
74 #
75 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-final-R"
76 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-final-R"
77 dstds=$(get_dst_ds $POOL $POOL2)
78 log_must cmp_ds_subs $POOL $dstds
79 log_must cmp_ds_cont $POOL $dstds
80 #
81 #
82 # Verify zfs send -R -I should succeed
83 #
84 log_must eval "$ZFS send -R -I @init $dstds@final > " \
85     "$BACKDIR/pool-init-final-IR"
86 list=$(getds_with_suffix $dstds @snapA)
87 list="$list $(getds_with_suffix $dstds @snapB)"
88 list="$list $(getds_with_suffix $dstds @snapC)"
89 list="$list $(getds_with_suffix $dstds @final)"
90 log_must destroy_tree $list
91 if is_global_zone ; then
92     log_must eval "$ZFS receive -d -F $dstds < $BACKDIR/pool-init-final-IR"
93 else
94     $ZFS receive -d -F $dstds < $BACKDIR/pool-init-final-IR
95 fi
96 log_must cmp_ds_subs $POOL $dstds
97 log_must cmp_ds_cont $POOL $dstds
98 #
99 log_pass "Rename parent filesystem name will not change the dependent order."

```

```

*****
3275 Fri Nov 22 15:21:49 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Changes made by 'zfs promote' can be properly received.
37 #
38 # STRATEGY:
39 #     1. Separately promote pool clone, filesystem clone and volume clone.
40 #     2. Recursively backup all the POOL and restore in POOL2
41 #     3. Verify all the datasets and property be properly received.
42 #
43 #
44 verify_runnable "both"
45 #
46 #         Origin                Clone
47 #
48 set -A dtst      "$POOL"          "$POOL/pclone"          \
49                "$POOL/$FS/fs1/fs2" "$POOL/$FS/fs1/fclone"
50 if is_global_zone ; then
51     typeset -i n=${#dtst[@]}
52     dtst[(n)]="$POOL/$FS/vol"; dtst[((n+1))="$POOL/$FS/vclone"
53 fi

```

```

55 function cleanup
56 {
57     typeset origin
58     typeset -i i=0
59     while ((i < ${#dtst[@]})); do
60         origin=$(get_prop origin ${dtst[$i]})
61
62         if [[ $origin != "-" ]]; then
63             log_must $ZFS promote ${dtst[$i]}
64         fi
65
66         ((i += 2))
67     done
68
69     origin=$(get_prop origin $POOL2)
70     if [[ $origin != "-" ]]; then
71         log_must $ZFS promote $POOL2
72     fi
73     log_must cleanup_pool $POOL2
74 }
75
76 log_assert "Changes made by 'zfs promote' can be properly received."
77 log_onexit cleanup
78
79 typeset -i i=0
80 while ((i < ${#dtst[@]})); do
81     log_must $ZFS promote ${dtst[((i+1))]}
82
83     ((i += 2))
84 done
85
86 #
87 # Verify zfs send -R should succeed
88 #
89 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-final-R"
90 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-final-R"
91
92 dstds=$(get_dst_ds $POOL $POOL2)
93 #
94 # Define all the POOL/POOL2 datasets pair
95 #
96 set -A pair      "$POOL"          "$dstds"          \
97                "$POOL/$FS"      "$dstds/$FS"      \
98                "$POOL/$FS/fs1"   "$dstds/$FS/fs1"  \
99                "$POOL/$FS/fs1/fs2" "$dstds/$FS/fs1/fs2" \
100               "$POOL/pclone"     "$dstds/pclone"   \
101               "$POOL/$FS/fs1/fclone" "$dstds/$FS/fs1/fclone"
102
103 if is_global_zone ; then
104     typeset -i n=${#pair[@]}
105     pair[(n)]="$POOL/vol"; pair[((n+1))="$dstds/vol"
106     pair[(n+2)]="$POOL/$FS/vol" pair[((n+3))="$dstds/$FS/vol"
107 fi
108
109 #
110 # Verify all the sub-datasets can be properly received.
111 #
112 log_must cmp_ds_subs $POOL $dstds
113 typeset -i i=0
114 while ((i < ${#pair[@]})); do
115     log_must cmp_ds_cont ${pair[$i]} ${pair[((i+1))]}
116     log_must cmp_ds_prop ${pair[$i]} ${pair[((i+1))]}
117
118     ((i += 2))
119 done

```

```
121 # Verify the original filesystem can be promoted
122 log_must $ZFS promote $dstds
123 if is_global_zone ; then
124     log_must $ZFS promote $dstds/$FS/vol
125 fi
126 log_must $ZFS promote $dstds/$FS/fs1/fs2
128 log_pass "Changes made by 'zfs promote' can be properly received."
```

```

*****
2581 Fri Nov 22 15:21:49 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs receive can handle out of space correctly.
37 #
38 # STRATEGY:
39 #     1. Create two pools, one is big and another is small.
40 #     2. Fill the big pool with data.
41 #     3. Take snapshot and backup the whole pool.
42 #     4. Receive this stream in small pool.
43 #     5. Verify zfs receive can handle the out of space error correctly.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     if datasetexists bpool ; then
51         log_must $ZPOOL destroy -f bpool
52     fi
53     if datasetexists spool ; then
54         log_must $ZPOOL destroy -f spool

```

```

55     fi
56 }
57 #
58 log_assert "Verify zfs receive can handle out of space correctly."
59 log_onexit cleanup
60 #
61 log_must $MKFILE 100M $TESTDIR/bfile
62 log_must $MKFILE 64M $TESTDIR/sfile
63 log_must $ZPOOL create bpool $TESTDIR/bfile
64 log_must $ZPOOL create spool $TESTDIR/sfile
65 #
66 #
67 # Test out of space on sub-filesystem
68 #
69 log_must $ZFS create bpool/fs
70 mntpnt=$(get_prop mountpoint bpool/fs)
71 log_must $MKFILE 30M $mntpnt/file
72 #
73 log_must $ZFS snapshot bpool/fs@snap
74 log_must eval "$ZFS send -R bpool/fs@snap > $BACKDIR/fs-R"
75 log_mustnot eval "$ZFS receive -d -F spool < $BACKDIR/fs-R"
76 #
77 log_must datasetnonexists spool/fs
78 log_must ismounted spool
79 #
80 #
81 # Test out of space on top filesystem
82 #
83 mntpnt2=$(get_prop mountpoint bpool)
84 log_must $MV $mntpnt/file $mntpnt2
85 log_must $ZFS destroy -rf bpool/fs
86 #
87 log_must $ZFS snapshot bpool@snap
88 log_must eval "$ZFS send -R bpool@snap > $BACKDIR/bpool-R"
89 log_mustnot eval "$ZFS receive -d -F spool < $BACKDIR/bpool-R"
90 #
91 log_must datasetnonexists spool/fs
92 log_must ismounted spool
93 #
94 log_pass "zfs receive can handle out of space correctly."

```

new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_010_pos.ksh 1

```
*****
2199 Fri Nov 22 15:21:49 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_010_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     ZFS can handle stream with multiple identical (same GUID) snapshots
37 #
38 # STRATEGY:
39 #     1. Recursively backup snapshot
40 #     2. Restore it to the given filesystem
41 #     3. Resend the snapshot again
42 #     4. Verify this stream can be restore to this filesystem again
43 #
44 #
45 verify_runnable "both"
46 #
47 log_assert "ZFS can handle stream with multiple identical (same GUID) snapshots"
48 log_onexit cleanup_pool $POOL2
49 #
50 log_must $ZFS create $POOL2/$FS
51 log_must $ZFS snapshot $POOL2/$FS@snap
52 #
53 #
54 # First round restore the stream
```

new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_010_pos.ksh 2

```
55 #
56 log_must eval "$ZFS send -R $POOL2/$FS@snap > $BACKDIR/fs-R"
57 log_must eval "$ZFS receive -d -F $POOL2/$FS < $BACKDIR/fs-R"
58 #
59 #
60 # In order to avoid 'zfs send -R' failed, create snapshot for
61 # all the sub-systems
62 #
63 list=$(ZFS list -r -H -o name -t filesystem $POOL2/$FS)
64 for item in $list ; do
65     if datasetnonexists $item@snap ; then
66         log_must $ZFS snapshot $item@snap
67     fi
68 done
69 #
70 #
71 # Second round restore the stream
72 #
73 log_must eval "$ZFS send -R $POOL2/$FS@snap > $BACKDIR/fs-R"
74 dstds=$(get_dst_ds $POOL2/$FS $POOL2/$FS)
75 log_must eval "$ZFS receive -d -F $dstds < $BACKDIR/fs-R"
76 #
77 log_pass "ZFS can handle stream with multiple identical (same GUID) snapshots"
```



```

*****
3306 Fri Nov 22 15:21:50 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_011_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Changes made by 'zfs inherit' can be properly received.
37 #
38 # STRATEGY:
39 #     1. Inherit property for filesystem and volume
40 #     2. Send and restore them in the target pool
41 #     3. Verify all the datasets can be properly backup and receive
42 #
43 #
44 verify_runnable "both"
45 #
46 function cleanup
47 {
48     export __ZFS_POOL_RESTRICT="$POOL $POOL2"
49     log_must $ZFS unmount -a
50     unset __ZFS_POOL_RESTRICT
51     log_must cleanup_pool $POOL
52     log_must cleanup_pool $POOL2
53 #
54     log_must setup_test_model $POOL

```

```

55 }
56 log_assert "Verify changes made by 'zfs inherit' can be properly received."
57 log_onexit cleanup
58 #
59 #
60 #
61 # Setting all the $ZFS properties as local value,
62 #
63 for prop in $(fs_inherit_prop); do
64     value=$(get_prop $prop $POOL/$ZFS)
65     log_must $ZFS set $prop=$value $POOL/$ZFS
66 done
67 #
68 #
69 # Inherit properties in sub-datasets
70 #
71 for ds in "$POOL/$ZFS/fs1" "$POOL/$ZFS/fs1/fs2" "$POOL/$ZFS/fs1/fclone" ; do
72     for prop in $(fs_inherit_prop) ; do
73         $ZFS inherit $prop $ds
74         if (( $? != 0 )); then
75             log_fail "$ZFS inherit $prop $ds"
76         fi
77     done
78 done
79 if is_global_zone ; then
80     for prop in $(vol_inherit_prop) ; do
81         $ZFS inherit $prop $POOL/$ZFS/vol
82         if (( $? != 0 )); then
83             log_fail "$ZFS inherit $prop $POOL/$ZFS/vol"
84         fi
85     done
86 fi
87 #
88 #
89 # Verify datasets can be backup and restore correctly
90 # Unmount $POOL/$ZFS to avoid two fs mount in the same mountpoint
91 #
92 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-R"
93 log_must $ZFS unmount -f $POOL/$ZFS
94 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-R"
95 #
96 dstds=$(get_dst_ds $POOL $POOL2)
97 #
98 # Define all the POOL/POOL2 datasets pair
99 #
100 set -A pair "$POOL" "$dstds" \
101 "$POOL/$ZFS" "$dstds/$ZFS" \
102 "$POOL/$ZFS/fs1" "$dstds/$ZFS/fs1" \
103 "$POOL/$ZFS/fs1/fs2" "$dstds/$ZFS/fs1/fs2" \
104 "$POOL/pclone" "$dstds/pclone" \
105 "$POOL/$ZFS/fs1/fclone" "$dstds/$ZFS/fs1/fclone"
106 #
107 if is_global_zone ; then
108     typeset -i n=${#pair[@]}
109     pair[((n))]=$POOL/vol; pair[((n+1))]=$dstds/vol
110     pair[((n+2))]=$POOL/$ZFS/vol; pair[((n+3))]=$dstds/$ZFS/vol
111 fi
112 #
113 #
114 # Verify all the sub-datasets can be properly received.
115 #
116 log_must cmp_ds_subs $POOL $dstds
117 typeset -i i=0
118 while ((i < ${#pair[@]})); do
119     log_must cmp_ds_cont ${pair[$i]} ${pair[((i+1))]}
120     log_must cmp_ds_prop ${pair[$i]} ${pair[((i+1))]}

```

```
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_011_pos.ksh
```

3

```
122     ((i += 2))  
123 done
```

```
125 log_pass "Changes made by 'zfs inherit' can be properly received."
```

```

*****
5432 Fri Nov 22 15:21:50 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_012_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs send -R will backup all the filesystem properties correctly.
37 #
38 # STRATEGY:
39 #     1. Setting properties for all the filesystem and volumes randomly
40 #     2. Backup all the data from POOL by send -R
41 #     3. Restore all the data in POOL2
42 #     4. Verify all the perperties in two pools are same
43 #
44 #
45 verify_runnable "global"
46 #
47 function rand_set_prop
48 {
49     typeset dtst=$1
50     typeset prop=$2
51     shift 2
52     typeset value=$(random_get $@)
53 #
54     log_must eval "$ZFS set $prop='$value' $dtst"

```

```

55 }
56 #
57 function edited_prop
58 {
59     typeset behaviour=$1
60     typeset ds=$2
61     typeset backfile=$TESTDIR/edited_prop_$$ds
62 #
63     case $behaviour in
64         "get")
65             typeset props=$(ZFS inherit 2>&1 | \
66                 $AWK ' $2=="YES" {print $1}' | \
67                 $EGREP -v "^vol|\.\.\.$")
68             for item in $props ; do
69                 if [[ $item == "mlslabel" ]] && \
70                     ! is_te_enabled ; then
71                     continue
72                 fi
73                 ZFS get -H -o property,value $item $ds >> \
74                     $backfile
75                 if (($? != 0)); then
76                     log_fail "zfs get -H -o property,value"
77                     "$item $ds > $backfile"
78                 fi
79             done
80             ;;
81         "set")
82             if [[ ! -f $backfile ]] ; then
83                 log_fail "$ds need backup properties firstly."
84             fi
85 #
86             typeset prop value
87             while read prop value ; do
88                 eval $ZFS set $prop=$value $ds
89                 if (($? != 0)); then
90                     log_fail "$ZFS set $prop=$value $ds"
91                 fi
92             done < $backfile
93             ;;
94         *)
95             log_fail "Unrecognized behaviour: $behaviour"
96     esac
97 }
98 #
99 function cleanup
100 {
101     log_must cleanup_pool $POOL
102     log_must cleanup_pool $POOL2
103 #
104     log_must edited_prop "set" $POOL
105     log_must edited_prop "set" $POOL2
106 #
107     typeset prop
108     for prop in $(fs_inherit_prop) ; do
109         log_must $ZFS inherit $prop $POOL
110         log_must $ZFS inherit $prop $POOL2
111     done
112 #
113     #if is_shared $POOL; then
114     #     log_must $ZFS set sharenfs=off $POOL
115     #fi
116     log_must setup_test_model $POOL
117 #
118     if [[ -d $TESTDIR ]]; then
119         log_must $RM -rf $TESTDIR/*
120     fi

```

```

121 }
123 log_assert "Verify zfs send -R will backup all the filesystem properties " \
124 "correctly."
125 log_onexit cleanup
127 log_must edited_prop "get" $POOL
128 log_must edited_prop "get" $POOL2
130 for fs in "$POOL" "$POOL/pclone" "$POOL/$FS" "$POOL/$FS/fs1" \
131 "$POOL/$FS/fs1/fs2" "$POOL/$FS/fs1/fclone" ; do
132   rand_set_prop $fs aclinherit "discard" "noallow" "secure" "passthrough"
133   rand_set_prop $fs checksum "on" "off" "fletcher2" "fletcher4" "sha256"
134   rand_set_prop $fs aclmode "discard" "groupmask" "passthrough"
135   rand_set_prop $fs atime "on" "off"
136   rand_set_prop $fs checksum "on" "off" "fletcher2" "fletcher4" "sha256"
137   rand_set_prop $fs compression "on" "off" "lzjb" "gzip" \
138     "gzip-1" "gzip-2" "gzip-3" "gzip-4" "gzip-5" "gzip-6" \
139     "gzip-7" "gzip-8" "gzip-9"
140   rand_set_prop $fs copies "1" "2" "3"
141   rand_set_prop $fs devices "on" "off"
142   rand_set_prop $fs exec "on" "off"
143   rand_set_prop $fs quota "512M" "1024M"
144   rand_set_prop $fs recordsize "512" "2K" "8K" "32K" "128K"
145   rand_set_prop $fs setuid "on" "off"
146   rand_set_prop $fs snapdir "hidden" "visible"
147   rand_set_prop $fs xattr "on" "off"
148   rand_set_prop $fs user:prop "aaa" "bbb" "23421" "()-+?"
149 done
151 for vol in "$POOL/vol" "$POOL/$FS/vol" ; do
152   rand_set_prop $vol checksum "on" "off" "fletcher2" "fletcher4" "sha256"
153   rand_set_prop $vol compression "on" "off" "lzjb" "gzip" \
154     "gzip-1" "gzip-2" "gzip-3" "gzip-4" "gzip-5" "gzip-6" \
155     "gzip-7" "gzip-8" "gzip-9"
156   rand_set_prop $vol readonly "on" "off"
157   rand_set_prop $vol copies "1" "2" "3"
158   rand_set_prop $vol user:prop "aaa" "bbb" "23421" "()-+?"
159 done
162 # Verify inherited property can be received
163 rand_set_prop $POOL sharefs "on" "off" "rw"
165 #
166 # Duplicate POOL2 for testing
167 #
168 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-final-R"
169 log_must eval "$ZFS receive -d -F $POOL2 < $BACKDIR/pool-final-R"
171 #
172 # Define all the POOL/POOL2 datasets pair
173 #
174 set -A pair "$POOL" "$POOL2" \
175 "$POOL/$FS" "$POOL2/$FS" \
176 "$POOL/$FS/fs1" "$POOL2/$FS/fs1" \
177 "$POOL/$FS/fs1/fs2" "$POOL2/$FS/fs1/fs2" \
178 "$POOL/pclone" "$POOL2/pclone" \
179 "$POOL/$FS/fs1/fclone" "$POOL2/$FS/fs1/fclone" \
180 "$POOL/vol" "$POOL2/vol" \
181 "$POOL/$FS/vol" "$POOL2/$FS/vol"
183 typeset -i i=0
184 while ((i < ${#pair[@]})); do
185   log_must cmp_ds_prop ${pair[$i]} ${pair[((i+1)]]}

```

```

187     ((i += 2))
188 done
191 $ZPOOL upgrade -v | $GREP "Snapshot properties" > /dev/null 2>&1
192 if (( $? == 0 )); then
193   i=0
194   while ((i < ${#pair[@]})); do
195     log_must cmp_ds_prop ${pair[$i]}@final ${pair[((i+1)]]}@final
196     ((i += 2))
197   done
198 fi
200 log_pass "Verify zfs send -R will backup all the filesystem properties " \
201 "correctly."

```

new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_013_pos.ksh 1

```
*****
2370 Fri Nov 22 15:21:50 2013
new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_013_pos.ksh
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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     zfs receive -dF with incremental stream will destroy all the
37 #     dataset that not exist on the sender side.
38 #
39 # STRATEGY:
40 #     1. Setup test model
41 #     2. Send -R @final on pool
42 #     3. Destroy some dataset within the @final, and create @destroy
43 #     4. Send -R -I @final @destroy on pool
44 #     5. Verify receive -dF will destroy all the dataset that not exist
45 #     on the sender side.
46 #
47 #
48 verify_runnable "both"
49 #
50 function cleanup
51 {
52     cleanup_pool $POOL2
53     cleanup_pool $POOL
54     log_must setup_test_model $POOL
```

new/usr/src/test/zfs-tests/tests/functional/rsend/rsend_013_pos.ksh 2

```
55 }
56 #
57 log_assert "zfs receive -dF will destroy all the dataset that not exist" \
58     "on the sender side"
59 log_onexit cleanup
60 #
61 cleanup
62 #
63 #
64 # Duplicate POOL2 for testing
65 #
66 log_must eval "$ZFS send -R $POOL@final > $BACKDIR/pool-final-R"
67 log_must eval "$ZFS receive -dF $POOL2 < $BACKDIR/pool-final-R"
68 #
69 log_must $ZFS destroy -Rf $POOL/$FS
70 log_must $ZFS destroy -Rf $POOL/pclone
71 #
72 if is_global_zone ; then
73     log_must $ZFS destroy -Rf $POOL/vol
74 fi
75 log_must $ZFS snapshot -r $POOL@destroy
76 #
77 log_must eval "$ZFS send -R -I @final $POOL@destroy > " \
78     "$BACKDIR/pool-final-destroy-IR"
79 log_must eval "$ZFS receive -dF $POOL2 < $BACKDIR/pool-final-destroy-IR"
80 #
81 dstds=$(get_dst_ds $POOL $POOL2)
82 log_must cmp_ds_subs $POOL $dstds
83 log_must cmp_ds_cont $POOL $dstds
84 #
85 log_pass "zfs receive -dF will destroy all the dataset that not exist" \
86     "on the sender side"
```

new/usr/src/test/zfs-tests/tests/functional/rsend/setup.ksh

1

1414 Fri Nov 22 15:21:51 2013

new/usr/src/test/zfs-tests/tests/functional/rsend/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/tests/functional/rsend/rsend.kshlib
33 #
34 verify_runnable "both"
35 verify_disk_count "$DISKS" 2
36 #
37 #
38 # Check if the system support 'send -R'
39 #
40 $ZFS send 2>&1 | $GREP "\[-[a-zA-Z]*R[a-zA-Z]*\]" >/dev/null 2>&1
41 if (($? != 0)); then
42     log_unsupported
43 fi
44 #
45 if is_global_zone ; then
46     log_must $ZPOOL create $POOL $DISK1
47     log_must $ZPOOL create $POOL2 $DISK2
48 fi
49 log_must $MKDIR $BACKDIR $TESTDIR
50 #
51 log_must setup_test_model $POOL
52 #
53 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/Makefile

1

994 Fri Nov 22 15:21:51 2013

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/scrub_mirror
20 #
21 PROGS = cleanup \
22         scrub_mirror_001_pos \
23         scrub_mirror_002_pos \
24         scrub_mirror_003_pos \
25         scrub_mirror_004_pos \
26         setup
27 #
28 FILES = default.cfg \
29         scrub_mirror_common.kshlib
30 #
31 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
32 $(CMDS) := FILEMODE = 0555
33 #
34 all lint clean clobber:
35 #
36 install: $(CMDS)
37 #
38 $(CMDS): $(TESTDIR)
39 #
40 $(TESTDIR):
41     $(INS.dir)
42 #
43 $(TESTDIR)/%: %.ksh
44     $(INS.rename)
45 #
46 $(TESTDIR)/%: %
47     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/cleanup.ksh

1

1451 Fri Nov 22 15:21:52 2013

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/scrub_mirror/default.cfg
34 #
35 #
36 verify_runnable "global"
37 #
38 $DF -F zfs -h | $GREP "$TESTFS " >/dev/null
39 [[ $? == 0 ]] && log_must $ZFS umount -f $TESTDIR
40 destroy_pool $TESTPOOL
41 #
42 # recreate and destroy a zpool over the disks to restore the partitions to
43 # normal
44 if [[ -n $SINGLE_DISK ]]; then
45     log_must cleanup_devices $MIRROR_PRIMARY
46 else
47     log_must cleanup_devices $MIRROR_PRIMARY $MIRROR_SECONDARY
48 fi
49 #
50 log_pass
```

1721 Fri Nov 22 15:21:52 2013
new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/default.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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29 #
30 #
31 typeset -i NUMBER_OF_DISKS=0
32 for i in $DISKS; do
33     [[ -n $MIRROR_PRIMARY ]] && MIRROR_SECONDARY=$i
34     [[ -z $MIRROR_PRIMARY ]] && MIRROR_PRIMARY=$i
35 done
36 #
37 if [[ -z $MIRROR_SECONDARY ]]; then
38     # We need to repartition the single disk to two slices
39     SINGLE_DISK=$MIRROR_PRIMARY
40     MIRROR_SECONDARY=$MIRROR_PRIMARY
41     SIDE_PRIMARY=${SINGLE_DISK}s0
42     SIDE_SECONDARY=${SINGLE_DISK}s1
43 else
44     SIDE_PRIMARY=${MIRROR_PRIMARY}s0
45     SIDE_SECONDARY=${MIRROR_SECONDARY}s0
46 fi
47 #
48 export MIRROR_PRIMARY MIRROR_SECONDARY SINGLE_DISK SIDE_PRIMARY SIDE_SECONDARY
49 #
50 export FILE_COUNT=30
51 export FILE_SIZE=$(( 1024 * 1024 ))
52 export MIRROR_MEGS=70
53 export MIRROR_SIZE=${MIRROR_MEGS}m # default mirror size
54 export DD_BLOCK=$(( 64 * 1024 ))
```

55 export DD_COUNT=\$((MIRROR_MEGS * 1024 * 1024 / DD_BLOCK))

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_001_pos.ks 1

1661 Fri Nov 22 15:21:52 2013

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_001_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
32 . \$STF_SUITE/include/libtest.shlib
33 . \$STF_SUITE/tests/functional/scrub_mirror/scrub_mirror_common.kshlib
35 #
36 # DESCRIPTION:
37 # The primary side of a zpool mirror can be zeroed without causing damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem mirror
42 # 2) dd from /dev/zero over the primary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
46 verify_runnable "global"
48 log_assert "The primary side of a zpool mirror may be completely wiped" \
49 "without affecting the content of the pool"
51 overwrite_verify_mirror \$TESTPOOL \$SIDE_PRIMARY /dev/zero
53 log_pass "The overwrite had no effect on the data"

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_001_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_002_pos.ks 1

1681 Fri Nov 22 15:21:53 2013

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_002_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/scrub_mirror/scrub_mirror_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # The secondary side of a zpool mirror can be zeroed without causing damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem in the mirrored pool
42 # 2) dd from /dev/zero over the secondary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "The primary side of a zpool mirror may be completely wiped" \
49 "without affecting the content of the pool"
50 #
51 overwrite_verify_mirror $TESTPOOL $SIDE_SECONDARY /dev/zero
52 #
53 log_pass "The overwrite had no effect on the data"
```

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_002_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_003_pos.ks 1

1680 Fri Nov 22 15:21:53 2013

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_003_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/scrub_mirror/scrub_mirror_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # The primary side of a zpool mirror can be mangled causing without damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem mirror
42 # 2) dd from /dev/urandom over the primary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "The primary side of a zpool mirror may be completely mangled" \
49 "without affecting the content of the pool"
50 #
51 overwrite_verify_mirror $TESTPOOL $SIDE_PRIMARY /dev/urandom
52 #
53 log_pass "The overwrite did not have any effect on the data"
```

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_003_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_004_pos.ks 1

1690 Fri Nov 22 15:21:53 2013

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_004_pos.ks

h
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/scrub_mirror/scrub_mirror_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # The secondary side of a zpool mirror can be mangled causing without damage
38 # to the data in the pool
39 #
40 # STRATEGY:
41 # 1) Write several files to the ZFS filesystem in the mirrored pool
42 # 2) dd from /dev/urandom over the secondary side of the mirror
43 # 3) verify that all the file contents are unchanged on the file system
44 #
45 #
46 verify_runnable "global"
47 #
48 log_assert "The primary side of a zpool mirror may be completely mangled" \
49 "without affecting the content of the pool"
50 #
51 overwrite_verify_mirror $TESTPOOL $SIDE_SECONDARY /dev/urandom
52 #
53 log_pass "The overwrite had no effect on the data"
```

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_004_pos.ks 2

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_common.ksh 1

```
*****
2141 Fri Nov 22 15:21:54 2013
new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_common.ksh
lib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 # $STF_SUITE/tests/functional/scrub_mirror/default.cfg
31 #
32 function overwrite_verify_mirror
33 {
34     typeset POOL=$1
35     typeset AFFECTED_DEVICE=$2
36     typeset OVERWRITING_DEVICE=$3
37 #
38     typeset atfile=0
39     set -A files
40     set -A cksums
41     set -A newcksums
42 #
43     while (( atfile < FILE_COUNT )); do
44         files[$atfile]=$TESTDIR/file.$atfile
45         log_must $FILE_WRITE -o create -f $TESTDIR/file.$atfile \
46             -b $FILE_SIZE -c 1
47         cksums[$atfile]=$($CKSUM ${files[$atfile]})
48         (( atfile = atfile + 1 ))
49     done
50 #
51     # dd the affected side of the mirror
52     log_must $DD if=$OVERWRITING_DEVICE of=/dev/dsk/$AFFECTED_DEVICE \
53         seek=8 bs=$DD_BLOCK count=$(( DD_COUNT - 8 )) conv=notrunc
```

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/scrub_mirror_common.ksh 2

```
55     log_must $ZPOOL scrub $POOL
56 #
57     while is_pool_scrubbing $POOL; do
58         $SLEEP 2
59     done
60 #
61     atfile=0
62 #
63     typeset -i failedcount=0
64     while (( atfile < FILE_COUNT )); do
65         files[$atfile]=$TESTDIR/file.$atfile
66         newcksum=${($CKSUM ${files[$atfile]})}
67         if [[ $newcksum != ${cksums[$atfile]} ]]; then
68             (( failedcount = failedcount + 1 ))
69         fi
70         $RM -f ${files[$atfile]}
71         (( atfile = atfile + 1 ))
72     done
73 #
74     if (( $failedcount > 0 )); then
75         log_fail "of the $FILE_COUNT files $failedcount did not " \
76             "have the same checksum before and after."
77     fi
78 }
```

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/setup.ksh

1

1580 Fri Nov 22 15:21:54 2013

new/usr/src/test/zfs-tests/tests/functional/scrub_mirror/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/scrub_mirror/default.cfg
34 #
35 verify_runnable "global"
36 #
37 if ! $(is_physical_device $DISKS) ; then
38     log_unsupported "This directory cannot be run on raw files."
39 fi
40 #
41 if [[ -n $SINGLE_DISK ]]; then
42     log_note "Partitioning a single disk ($SINGLE_DISK)"
43 else
44     log_note "Partitioning disks ($MIRROR_PRIMARY $MIRROR_SECONDARY)"
45 fi
46 log_must set_partition ${SIDE_PRIMARY##*s} "" $MIRROR_SIZE $MIRROR_PRIMARY
47 log_must set_partition ${SIDE_SECONDARY##*s} "" $MIRROR_SIZE $MIRROR_SECONDARY
48 #
49 default_mirror_setup $SIDE_PRIMARY $SIDE_SECONDARY
50 #
51 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/slog/Makefile

1

1096 Fri Nov 22 15:21:54 2013

new/usr/src/test/zfs-tests/tests/functional/slog/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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```

```
12 #
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/slog
```

```
21 PROGS = cleanup \
22         setup \
23         slog_001_pos \
24         slog_002_pos \
25         slog_003_pos \
26         slog_004_pos \
27         slog_005_pos \
28         slog_006_pos \
29         slog_007_pos \
30         slog_008_neg \
31         slog_009_neg \
32         slog_010_neg \
33         slog_011_neg \
34         slog_012_neg \
35         slog_013_pos \
36         slog_014_pos
```

```
38 FILES = slog.cfg \
39         slog.kshlib
```

```
41 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
42 $(CMDS) := FILEMODE = 0555
```

```
44 all lint clean clobber:
```

```
46 install: $(CMDS)
```

```
48 $(CMDS): $(TESTDIR)
```

```
50 $(TESTDIR):
51     $(INS.dir)
```

```
53 $(TESTDIR)/%: %.ksh
54     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/slog/Makefile

2

```
56 $(TESTDIR)/%: %
57     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/slog/cleanup.ksh

1

1455 Fri Nov 22 15:21:55 2013

new/usr/src/test/zfs-tests/tests/functional/slog/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/slog/slog.cfg
34 #
35 verify_runnable "global"
36 #
37 if ! verify_slog_support ; then
38     log_unsupported "This system doesn't support separate intent logs"
39 fi
40 #
41 if datasetexists $TESTPOOL ; then
42     log_must $ZPOOL destroy -f $TESTPOOL
43 fi
44 if datasetexists $TESTPOOL2 ; then
45     log_must $ZPOOL destroy -f $TESTPOOL2
46 fi
47 if [[ -d $VDIR ]]; then
48     log_must $RM -rf $VDIR
49 fi
50 if [[ -d $VDIR2 ]]; then
51     log_must $RM -rf $VDIR2
52 fi
53 #
54 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/slog/cleanup.ksh

2

new/usr/src/test/zfs-tests/tests/functional/slog/setup.ksh

1

1397 Fri Nov 22 15:21:55 2013

new/usr/src/test/zfs-tests/tests/functional/slog/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/slog/slog.cfg
34 #
35 verify_runnable "global"
36 #
37 if ! verify_slog_support ; then
38     log_unsupported "This system doesn't support separate intent logs"
39 fi
40 #
41 if [[ -d $VDEV ]]; then
42     log_must $RM -rf $VDIR
43 fi
44 if [[ -d $VDEV2 ]]; then
45     log_must $RM -rf $VDIR2
46 fi
47 log_must $MKDIR -p $VDIR $VDIR2
48 log_must $MKFILE $SIZE $VDEV $SDEV $LDEV $VDEV2 $SDEV2 $LDEV2
49 #
50 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog.cfg

1

1216 Fri Nov 22 15:21:56 2013

new/usr/src/test/zfs-tests/tests/functional/slog/slog.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export SIZE=64M
32 #
33 export VDIR=/disk-slog
34 export VDIR2=/disk2-slog
35 #
36 export VDEV="$VDIR/a $VDIR/b $VDIR/c"
37 export SDEV="$VDIR/d"
38 export LDEV="$VDIR/e $VDIR/f"
39 export VDEV2="$VDIR2/a $VDIR2/b $VDIR2/c"
40 export SDEV2="$VDIR2/d"
41 export LDEV2="$VDIR2/e $VDIR2/f"
```

```

*****
3523 Fri Nov 22 15:21:56 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/slog/slog.cfg
33 #
34 function cleanup
35 {
36     if datasetexists $TESTPOOL ; then
37         log_must $ZPOOL destroy -f $TESTPOOL
38     fi
39     if datasetexists $TESTPOOL2 ; then
40         log_must $ZPOOL destroy -f $TESTPOOL2
41     fi
42 }
43 #
44 #
45 # Try zpool status/iostat for given pool
46 #
47 # $1 pool
48 #
49 function display_status
50 {
51     typeset pool=$1
52 #
53     typeset -i ret=0
54     $ZPOOL status -xv $pool > /dev/null 2>&1

```

```

55     ret=$?
56 #
57     $ZPOOL iostat > /dev/null 2>&1
58     ((ret != $?))
59 #
60     typeset mntpnt=$(get_prop mountpoint $pool)
61     $DD if=/dev/random of=$mntpnt/testfile.$$ &
62     typeset pid=$!
63 #
64     $ZPOOL iostat -v 1 3 > /dev/null
65     ((ret != $?))
66 #
67     kill -9 $pid
68 #
69     return $ret
70 }
71 #
72 #
73 # Verify the give slog device have correct type and status
74 #
75 # $1 pool name
76 # $2 device name
77 # $3 device status
78 # $4 device type
79 #
80 function verify_slog_device
81 {
82     typeset pool=$1
83     typeset device=$2
84     typeset status=$3
85     typeset type=$4
86 #
87     if [[ -z $pool || -z $device || -z $status ]]; then
88         log_fail "Usage: verify_slog_device <pool> <device> " \
89             "<status> [type]"
90     fi
91 #
92     if [[ $WRAPPER == *"smi"* ]]; then
93         $ECHO $device | $EGREP "c[0-F]+([td][0-F]+)$" > /dev/null 2>&1
94         if (( $? == 0 )); then
95             device=${device}s2
96         fi
97     fi
98 #
99 #
100 # Get all the slog devices and status table like below
101 #
102 # mirror:/disks/d ONLINE mirror:/disks/e ONLINE stripe:/disks/f ONLINE
103 #
104 set -A dev_stat_tab $(($ZPOOL status -v $pool | $NAWK 'BEGIN {start=0} \
105     /\tlogs/ {start=1}
106     /\tmirror/ || /\tspares/ || /\t^$/ {start=0}
107     (start==1) && /\t (\|[a-zA-Z])/ \
108         {print "stripe:" $1 " " $2}
109     (start==1) && /\t (\|[a-zA-Z])/ \
110         {print "mirror:" $1 " " $2}
111     # When hot spare is replacing
112     (start==1) && /\t (\|[a-zA-Z])/ \
113         {print "mirror:" $1 " " $2}'
114 )
115 #
116 typeset -i i=0
117 typeset find=0
118 while (( i < ${#dev_stat_tab[@]} )); do
119     typeset dev=${dev_stat_tab[$i]}
120     typeset stat=${dev_stat_tab[(i+1)]}

```

```
122     case $dev in
123         stripe:$device)
124             if [[ "$type" == 'mirror' ]]; then
125                 log_note "Unexpected type: mirror"
126                 return 1
127             else
128                 if [[ $stat != $status ]]; then
129                     log_note "Status($stat) " \
130                         "!= Expected stat($stat)"
131                     return 1
132                 fi
133                 return 0
134             fi
135             ;;
136         mirror:$device)
137             if [[ -z "$type" || $type == 'stripe' ]]; then
138                 log_note "Unexpected type: stripe"
139                 return 1
140             else
141                 if [[ $stat != $status ]]; then
142                     log_note "Status($stat) " \
143                         "!= Expected stat($stat)"
144                     return 1
145                 fi
146                 return 0
147             fi
148             ;;
149     esac
151     ((i += 2))
152 done
154 log_note "Can not find device: $device"
156 return 1
157 }
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_001_pos.ksh 1

```
*****
1788 Fri Nov 22 15:21:56 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Creating a pool with a log device succeeds.
37 #
38 # STRATEGY:
39 #     1. Create pool with separated log devices.
40 #     2. Display pool status
41 #     3. Destroy and loop to create pool with different configuration.
42 #
43 #
44 verify_runnable "global"
45 #
46 log_assert "Creating a pool with a log device succeeds."
47 log_onexit cleanup
48 #
49 for type in "" "mirror" "raidz" "raidz2"
50 do
51     for spare in "" "spare"
52     do
53         for logtype in "" "mirror"
54         do
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_001_pos.ksh 2

```
55     log_must $ZPOOL create $TESTPOOL $type $VDEV \
56             $spare $SDEV log $logtype $LDEV
57     log_must display_status $TESTPOOL
58 #
59     ldev=$(random_get $LDEV)
60     log_must verify_slog_device \
61             $TESTPOOL $ldev 'ONLINE' $logtype
62 #
63     log_must $ZPOOL destroy -f $TESTPOOL
64     done
65     done
66 done
67 #
68 log_pass "Creating a pool with a log device succeeds."
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_002_pos.ksh 1

```
*****
1837 Fri Nov 22 15:21:57 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Adding a log device to normal pool works.
37 #
38 # STRATEGY:
39 #     1. Create pool
40 #     2. Add log devices with different configuration
41 #     3. Display pool status
42 #     4. Destroy and loop to create pool with different configuration.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Adding a log device to normal pool works."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     for spare in "" "spare"
53     do
54         for logtype in "" "mirror"
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_002_pos.ksh 2

```
55         do
56             log_must $ZPOOL create $TESTPOOL $type $VDEV $spare $SDE
57             log_must $ZPOOL add $TESTPOOL log $logtype $LDEV
58             log_must display_status $TESTPOOL
59             typeset ldev=$(random_get $LDEV)
60             log_must verify_slog_device \
61                 $TESTPOOL $ldev 'ONLINE' $logtype
62             log_must $ZPOOL destroy -f $TESTPOOL
63         done
64     done
65 done
66 #
67 log_pass "Adding a log device to normal pool works."
```

```

*****
1900 Fri Nov 22 15:21:57 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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30 #
31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Adding an extra log device works
37 #
38 # STRATEGY:
39 #     1. Create pool with separated log devices.
40 #     2. Add an extra log devices
41 #     3. Display pool status
42 #     4. Destroy and loop to create pool with different configuration.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Adding an extra log device works."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     for spare in "" "spare"
53     do
54         for logtype in "" "mirror"

```

```

55         do
56             for newtype in "" "mirror"
57             do
58                 log_must $ZPOOL create $TESTPOOL $type $VDEV \
59                     $spare $SDEV log $logtype $LDEV
60                 log_must $ZPOOL add $TESTPOOL \
61                     log $newtype $LDEV2
62
63                 log_must display_status $TESTPOOL
64                 ldev=$(random_get $LDEV2)
65                 log_must verify_slog_device \
66                     $TESTPOOL $ldev 'ONLINE' $newtype
67
68                 log_must $ZPOOL destroy -f $TESTPOOL
69             done
70         done
71     done
72 done
73 #
74 log_pass "Adding an extra log device works."

```


new/usr/src/test/zfs-tests/tests/functional/slog/slog_004_pos.ksh

1

1960 Fri Nov 22 15:21:57 2013

new/usr/src/test/zfs-tests/tests/functional/slog/slog_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Attaching a log device passes.
37 #
38 # STRATEGY:
39 #     1. Create pool with separated log devices.
40 #     2. Attaching a log device for existing log device
41 #     3. Display pool status
42 #     4. Destroy and loop to create pool with different configuration.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Attaching a log device passes."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     for spare in "" "spare"
53     do
54         for logtype in "" "mirror"
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_004_pos.ksh

2

```
55         do
56             log_must $ZPOOL create $TESTPOOL $type $VDEV \
57                 $spare $SDEV log $logtype $LDEV
58 #
59             ldev=$(random_get $LDEV)
60             typeset ldev2=$(random_get $LDEV2)
61             log_must $ZPOOL attach $TESTPOOL $ldev $ldev2
62             log_must display_status $TESTPOOL
63             log_must verify_slog_device \
64                 $TESTPOOL $ldev 'ONLINE' 'mirror'
65             log_must verify_slog_device \
66                 $TESTPOOL $ldev2 'ONLINE' 'mirror'
67 #
68             log_must $ZPOOL destroy -f $TESTPOOL
69         done
70     done
71 done
72 #
73 log_pass "Attaching a log device passes."
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_005_pos.ksh 1

```
*****
1783 Fri Nov 22 15:21:58 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Detaching a log device passes.
37 #
38 # STRATEGY:
39 #     1. Create pool with mirror log devices.
40 #     2. Detaching a log device
41 #     3. Display pool status
42 #     4. Destroy and loop to create pool with different configuration.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Detaching a log device passes."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     for spare in "" "spare"
53     do
54         log_must $ZPOOL create $TESTPOOL $type $VDEV $spare $SDEV \
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_005_pos.ksh 2

```
55         log mirror $LDEV mirror $LDEV2
56         ldev=$(random_get $LDEV $LDEV2)
57         log_must $ZPOOL detach $TESTPOOL $ldev
58         log_must display_status $TESTPOOL
59         log_mustnot verify_slog_device $TESTPOOL $ldev 'ONLINE' 'mirror'
60 #
61         log_must $ZPOOL destroy -f $TESTPOOL
62         done
63 done
64 #
65 log_pass "Detaching a log device passes."
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_006_pos.ksh

1

1919 Fri Nov 22 15:21:58 2013

new/usr/src/test/zfs-tests/tests/functional/slog/slog_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Replacing a log device passes.
37 #
38 # STRATEGY:
39 #     1. Create pool with log devices.
40 #     2. Replacing one log device
41 #     3. Display pool status
42 #     4. Destroy and loop to create pool with different configuration.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Replacing a log device passes."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     for spare in "" "spare"
53     do
54         for logtype in "" "mirror"
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_006_pos.ksh

2

```
55         do
56             log_must $ZPOOL create $TESTPOOL $type $VDEV \
57                 $spare $SDEV log $logtype $LDEV
58             sdev=$(random_get $LDEV)
59             tdev=$(random_get $LDEV2)
60             log_must $ZPOOL replace $TESTPOOL $sdev $tdev
61             log_must display_status $TESTPOOL
62             # sleep 15 to make sure replacement completely.
63             log_must $SLEEP 15
64             log_must verify_slog_device \
65                 $TESTPOOL $tdev 'ONLINE' $logtype
66         done
67         log_must $ZPOOL destroy -f $TESTPOOL
68     done
69 done
70 done
71 #
72 log_pass "Replacing a log device passes."
```

```

*****
2526 Fri Nov 22 15:21:58 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Exporting and importing pool with log devices passes.
37 #
38 # STRATEGY:
39 #     1. Create pool with log devices.
40 #     2. Export and import the pool
41 #     3. Display pool status
42 #     4. Destroy and import the pool again
43 #     5. Display pool status
44 #     6. Destroy and loop to create pool with different configuration.
45 #
46 #
47 verify_runnable "global"
48 #
49 log_assert "Exporting and importing pool with log devices passes."
50 log_onexit cleanup
51 #
52 for type in "" "mirror" "raidz" "raidz2"
53 do
54     for spare in "" "spare"

```

```

55     do
56         for logtype in "" "mirror"
57         do
58             #
59             # Create pool which devices resider in different
60             # directory
61             #
62             log_must $ZPOOL create $TESTPOOL $type $VDEV \
63                 $spare $SDEV log $logtype $LDEV $LDEV2
64             ldev=$(random_get $LDEV $LDEV2)
65             log_must verify_slog_device \
66                 $TESTPOOL $ldev 'ONLINE' $logtype
67 #
68 #
69 # Nomal export/import operating
70 #
71 log_must $ZPOOL export $TESTPOOL
72 log_must $ZPOOL import -d $VDIR -d $VDIR2 $TESTPOOL
73 log_must display_status $TESTPOOL
74 ldev=$(random_get $LDEV $LDEV2)
75 log_must verify_slog_device \
76     $TESTPOOL $ldev 'ONLINE' $logtype
77 #
78 #
79 # Destroy the pool and import again
80 #
81 log_must $ZPOOL destroy $TESTPOOL
82 log_must $ZPOOL import -Df -d $VDIR -d $VDIR2 $TESTPOOL
83 log_must display_status $TESTPOOL
84 ldev=$(random_get $LDEV $LDEV2)
85 log_must verify_slog_device \
86     $TESTPOOL $ldev 'ONLINE' $logtype
87 #
88 log_must $ZPOOL destroy -f $TESTPOOL
89 #
90 done
91 done
92 #
93 log_pass "Exporting and importing pool with log devices passes."

```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_008_neg.ksh 1

1705 Fri Nov 22 15:21:59 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_008_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     A raidz/raidz2 log is not supported.
37 #
38 # STRATEGY:
39 #     1. Try to create pool with unsupported type
40 #     2. Verify failed to create pool.
41 #
42 #
43 verify_runnable "global"
44 #
45 log_assert "A raidz/raidz2 log is not supported."
46 log_onexit cleanup
47 #
48 for type in "" "mirror" "raidz" "raidz2"
49 do
50     for spare in "" "spare"
51     do
52         for logtype in "raidz" "raidz1" "raidz2"
53         do
54             log_mustnot $ZPOOL create $TESTPOOL $type $VDEV \
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_008_neg.ksh 2

```
55             $spare $SDEV log $logtype $LDEV $LDEV2
56             ldev=$(random_get $LDEV $LDEV2)
57             log_mustnot verify_slog_device \
58                 $TESTPOOL $ldev 'ONLINE' $logtype
59             log_must datasetnonexists $TESTPOOL
60         done
61     done
62 done
63 #
64 log_pass "A raidz/raidz2 log is not supported."
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_009_neg.ksh 1

```
*****
1847 Fri Nov 22 15:21:59 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_009_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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*****
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31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     A raidz/raidz2 log can not be added to existed pool.
37 #
38 # STRATEGY:
39 #     1. Create pool with or without log.
40 #     2. Add a raidz/raidz2 log to this pool.
41 #     3. Verify failed to add.
42 #
43 #
44 verify_runnable "global"
45 #
46 log_assert "A raidz/raidz2 log can not be added to existed pool."
47 log_onexit cleanup
48 #
49 for type in "" "mirror" "raidz" "raidz2"
50 do
51     for spare in "" "spare"
52     do
53         for logtype in "raidz" "raidz1" "raidz2"
54         do
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_009_neg.ksh 2

```
55     log=$(random_get_with_non "log")
56     log_must $ZPOOL create $TESTPOOL $type $VDEV \
57         $spare $SDEV $log $LDEV
58 #
59     log_mustnot $ZPOOL add $TESTPOOL log $logtype $LDEV2
60     ldev=$(random_get $LDEV2)
61     log_mustnot verify_slog_device \
62         $TESTPOOL $ldev 'ONLINE' $logtype
63 #
64     log_must $ZPOOL destroy $TESTPOOL
65 #
66     done
67 done
68 #
69 log_pass "A raidz/raidz2 log can not be added to existed pool."
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_010_neg.ksh 1

2069 Fri Nov 22 15:21:59 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_010_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     slog device can not be replaced with spare device
37 #
38 # STRATEGY:
39 #     1. Create a pool with hotspare and log devices.
40 #     2. Verify slog device can not be replaced with hotspare device.
41 #     3. Create pool2 with hotspare
42 #     4. Verify slog device can not be replaced with hotspare device in pool2.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Slog device can not be replaced with spare device."
48 log_onexit cleanup
49 #
50 log_must $ZPOOL create $TESTPOOL $VDEV spare $SDEV log $LDEV
51 sdev=$(random_get $SDEV)
52 ldev=$(random_get $LDEV)
53 log_mustnot $ZPOOL replace $TESTPOOL $ldev $sdev
54 log_mustnot verify_slog_device $TESTPOOL $sdev 'ONLINE'
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_010_neg.ksh 2

```
55 log_must verify_slog_device $TESTPOOL $ldev 'ONLINE'
56 #
57 log_must $ZPOOL create $TESTPOOL2 $VDEV2 spare $SDEV2
58 sdev2=$(random_get $SDEV2)
59 log_mustnot $ZPOOL replace $TESTPOOL $ldev $sdev2
60 log_mustnot $ZPOOL replace -f $TESTPOOL $ldev $sdev2
61 log_mustnot verify_slog_device $TESTPOOL $sdev2 'ONLINE'
62 log_must verify_slog_device $TESTPOOL $ldev 'ONLINE'
63 #
64 log_pass "Slog device can not be replaced with spare device."
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_011_neg.ksh 1

```
*****
1960 Fri Nov 22 15:22:00 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_011_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Offline and online a log device passes.
37 #
38 # STRATEGY:
39 #     1. Create pool with mirror log devices.
40 #     2. Offline and online a log device
41 #     3. Display pool status
42 #     4. Destroy and loop to create pool with different configuration.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "Offline and online a log device passes."
48 log_onexit cleanup
49 #
50 for type in "" "mirror" "raidz" "raidz2"
51 do
52     for spare in "" "spare"
53     do
54         log_must $ZPOOL create $TESTPOOL $type $VDEV $spare $SDEV \
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_011_neg.ksh 2

```
55         log mirror $LDEV mirror $LDEV2
56 #
57         ldev=$(random_get $LDEV $LDEV2)
58         log_must $ZPOOL offline $TESTPOOL $ldev
59         log_must display_status $TESTPOOL
60         log_must verify_slog_device $TESTPOOL $ldev 'OFFLINE' 'mirror'
61 #
62         log_must $ZPOOL online $TESTPOOL $ldev
63         log_must display_status $TESTPOOL
64         log_must verify_slog_device $TESTPOOL $ldev 'ONLINE' 'mirror'
65 #
66         log_must $ZPOOL destroy -f $TESTPOOL
67         done
68 done
69 #
70 log_pass "Offline and online a log device passes."
```


new/usr/src/test/zfs-tests/tests/functional/slog/slog_012_neg.ksh 1

```
*****
1993 Fri Nov 22 15:22:00 2013
new/usr/src/test/zfs-tests/tests/functional/slog/slog_012_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
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31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Pool can survive when one of mirror log device get corrupted
37 #
38 # STRATEGY:
39 #     1. Create pool with mirror slog devices
40 #     2. Make corrupted on one disk
41 #     3. Verify the pool is fine
42 #
43 #
44 verify_runnable "global"
45 #
46 log_assert "Pool can survive when one of mirror log device get corrupted."
47 log_onexit cleanup
48 #
49 for type in "" "mirror" "raidz" "raidz2"
50 do
51     for spare in "" "spare"
52     do
53         log_must $ZPOOL create $TESTPOOL $type $VDEV $spare $SDEV \
54             log mirror $LDEV
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_012_neg.ksh 2

```
56     mntpnt=$(get_prop mountpoint $TESTPOOL)
57     #
58     # Create file in pool to trigger writing in slog devices
59     #
60     log_must $DD if=/dev/random of=$mntpnt/testfile.$$ count=100
61 #
62     ldev=$(random_get $LDEV)
63     log_must $MKFILE $SIZE $ldev
64     log_must $ZPOOL scrub $TESTPOOL
65 #
66     log_must display_status $TESTPOOL
67     log_must verify_slog_device $TESTPOOL $ldev 'UNAVAIL' 'mirror'
68 #
69     log_must $ZPOOL destroy -f $TESTPOOL
70     done
71 done
72 #
73 log_pass "Pool can survive when one of mirror log device get corrupted."
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_013_pos.ksh

1

2580 Fri Nov 22 15:22:00 2013

new/usr/src/test/zfs-tests/tests/functional/slog/slog_013_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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30 #
31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Verify slog device can be disk, file, lofi device or any device that
37 #     presents a block interface.
38 #
39 # STRATEGY:
40 #     1. Create a pool
41 #     2. Loop to add different object as slog
42 #     3. Verify it passes
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup_testenv
48 {
49     cleanup
50     if datasetexists $TESTPOOL2 ; then
51         log_must $ZPOOL destroy -f $TESTPOOL2
52     fi
53     if [[ -n $lofidev ]]; then
54         $LOFIADM -d $lofidev
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_013_pos.ksh

2

```
55     fi
56 }
57 #
58 log_assert "Verify slog device can be disk, file, lofi device or any device " \
59     "that presents a block interface."
60 verify_disk_count "$DISKS" 2
61 log_onexit cleanup_testenv
62 #
63 dsk1=${DISKS%% *}
64 log_must $ZPOOL create $TESTPOOL ${DISKS#$dsk1}
65 #
66 # Add nomal disk
67 log_must $ZPOOL add $TESTPOOL log $dsk1
68 log_must verify_slog_device $TESTPOOL $dsk1 'ONLINE'
69 # Add nomal file
70 log_must $ZPOOL add $TESTPOOL log $LDEV
71 ldev=$(random_get $LDEV)
72 log_must verify_slog_device $TESTPOOL $ldev 'ONLINE'
73 #
74 # Add lofi device
75 lofidev=${LDEV2%% *}
76 log_must $LOFIADM -a $lofidev
77 lofidev=${LOFIADM $lofidev}
78 log_must $ZPOOL add $TESTPOOL log $lofidev
79 log_must verify_slog_device $TESTPOOL $lofidev 'ONLINE'
80 #
81 log_pass "Verify slog device can be disk, file, lofi device or any device " \
82     "that presents a block interface."
83 #
84 # Temp disable fore bug 6569095
85 # Add file which reside in the itself
86 mntpnt=$(get_prop mountpoint $TESTPOOL)
87 log_must $MKFILE 100M $mntpnt/vdev
88 log_must $ZPOOL add $TESTPOOL $mntpnt/vdev
89 #
90 # Temp disable fore bug 6569072
91 # Add ZFS volume
92 vol=$TESTPOOL/vol
93 log_must $ZPOOL create -V 64M $vol
94 log_must $ZPOOL add $TESTPOOL /dev/zvol/dsk/$vol
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_014_pos.ksh

1

2310 Fri Nov 22 15:22:01 2013

new/usr/src/test/zfs-tests/tests/functional/slog/slog_014_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/tests/functional/slog/slog.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     log device can survive when one of pool device get corrupted
37 #
38 # STRATEGY:
39 #     1. Create pool with slog devices
40 #     2. Corrupt the data on one disk.
41 #     3. Verify the log is fine
42 #
43 #
44 verify_runnable "global"
45 #
46 log_assert "log device can survive when one of the pool device get corrupted."
47 #
48 for type in "mirror" "raidz" "raidz2"
49 do
50     for spare in "" "spare"
51     do
52         log_must $ZPOOL create $TESTPOOL $type $VDEV $spare $SDEV \
53             log $LDEV
```

new/usr/src/test/zfs-tests/tests/functional/slog/slog_014_pos.ksh

2

```
55 # Corrupt a pool device to make the pool DEGRADED
56 $DD if=/dev/urandom of=$TESTPOOL/filler bs=1024k count=50
57 # The oseek value below is to skip past the vdev label.
58 log_must $DD if=/dev/urandom of=$VDIR/a bs=1024k oseek=4 \
59     conv=notrunc count=50
60 log_must $ZPOOL scrub $TESTPOOL
61 log_must display_status $TESTPOOL
62 log_must $ZPOOL status $TESTPOOL 2>&1 >/dev/null
63 #
64 $ZPOOL status -v $TESTPOOL | \
65     $GREP "state: DEGRADED" 2>&1 >/dev/null
66 if (( $? != 0 )); then
67     log_fail "pool $TESTPOOL status should be DEGRADED"
68 fi
69 #
70 $ZPOOL status -v $TESTPOOL | $GREP logs | \
71     $GREP "DEGRADED" 2>&1 >/dev/null
72 if (( $? == 0 )); then
73     log_fail "log device should display correct status"
74 fi
75 #
76 log_must $ZPOOL destroy -f $TESTPOOL
77 done
78 done
79 #
80 log_pass "log device can survive when one of the pool device get corrupted."
```

```
*****
```

```
1282 Fri Nov 22 15:22:01 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/Makefile
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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```

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```

```
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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/snapshot
```

```
21 PROGS = cleanup \
22         clone_001_pos \
23         rollback_001_pos \
24         rollback_002_pos \
25         rollback_003_pos \
26         setup \
27         snapshot_001_pos \
28         snapshot_002_pos \
29         snapshot_003_pos \
30         snapshot_004_pos \
31         snapshot_005_pos \
32         snapshot_006_pos \
33         snapshot_007_pos \
34         snapshot_008_pos \
35         snapshot_009_pos \
36         snapshot_010_pos \
37         snapshot_011_pos \
38         snapshot_012_pos \
39         snapshot_013_pos \
40         snapshot_014_pos \
41         snapshot_015_pos \
42         snapshot_016_pos \
43         snapshot_017_pos
```

```
45 FILES = snapshot.cfg
```

```
47 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
48 $(CMDS) := FILEMODE = 0555
```

```
50 all lint clean clobber:
```

```
52 install: $(CMDS)
```

```
54 $(CMDS): $(TESTDIR)
```

```
56 $(TESTDIR):
57     $(INS.dir)

59 $(TESTDIR)/%: %.ksh
60     $(INS.rename)

62 $(TESTDIR)/%: %
63     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/cleanup.ksh

1

1041 Fri Nov 22 15:22:01 2013

new/usr/src/test/zfs-tests/tests/functional/snapshot/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_container_cleanup
```

```

*****
4035 Fri Nov 22 15:22:02 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/clone_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 # $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Create a snapshot from regular filesystem, volume,
38 # or filesystem upon volume, Build a clone file system
39 # from the snapshot and verify new files can be written.
40 #
41 # STRATEGY:
42 # 1. Create snapshot use 3 combination:
43 # - Regular filesystem
44 # - Regular volume
45 # - Filesystem upon volume
46 # 2. Clone a new file system from the snapshot
47 # 3. Verify the cloned file system is writable
48 #
49 #
50 verify_runnable "both"
51 #
52 # Setup array, 4 elements as a group, refer to:
53 # i+0: name of a snapshot
54 # i+1: mountpoint of the snapshot

```

```

55 # i+2: clone created from the snapshot
56 # i+3: mountpoint of the clone
57 #
58 set -A args "$SNAPFS" "$SNAPDIR" "$TESTPOOL/$TESTCLONE" "$TESTDIR.0" \
59 "$SNAPFS1" "$SNAPDIR3" "$TESTPOOL/$TESTCLONE1" "" \
60 "$SNAPFS2" "$SNAPDIR2" "$TESTPOOL1/$TESTCLONE2" "$TESTDIR.2"
61 #
62 function setup_all
63 {
64     create_pool $TESTPOOL1 /dev/zvol/dsk/$TESTPOOL/$TESTVOL
65     log_must $ZFS create $TESTPOOL1/$TESTFS
66     log_must $ZFS set mountpoint=$TESTDIR2 $TESTPOOL1/$TESTFS
67 #
68     return 0
69 }
70 #
71 function cleanup_all
72 {
73     typeset -i i=0
74 #
75     i=0
76     while (( i < ${#args[*]} )); do
77         snapexists ${args[i]} && \
78             log_must $ZFS destroy -Rf ${args[i]}
79 #
80         [[ -d ${args[i+3]} ]] && \
81             log_must $RM -rf ${args[i+3]}
82 #
83         [[ -d ${args[i+1]} ]] && \
84             log_must $RM -rf ${args[i+1]}
85 #
86         (( i = i + 4 ))
87     done
88 #
89     datasetexists $TESTPOOL1/$TESTFS && \
90         log_must $ZFS destroy -f $TESTPOOL1/$TESTFS
91 #
92     destroy_pool $TESTPOOL1
93 #
94     [[ -d $TESTDIR2 ]] && \
95         log_must $RM -rf $TESTDIR2
96 #
97     return 0
98 }
99 #
100 log_assert "Verify a cloned file system is writable."
101 #
102 log_onexit cleanup_all
103 #
104 setup_all
105 #
106 [[ -n $TESTDIR ]] && \
107     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
108 #
109 typeset -i COUNT=10
110 typeset -i i=0
111 #
112 for mtpt in $TESTDIR $TESTDIR2 ; do
113     log_note "Populate the $mtpt directory (prior to snapshot)"
114     typeset -i j=1
115     while [[ $j -le $COUNT ]]; do
116         log_must $FILE_WRITE -o create -f $mtpt/before_file$j \
117             -b $BLOCKSZ -c $NUM_WRITES -d $j
118 #
119         (( j = j + 1 ))
120     done

```

```
121 done
123 while (( i < ${#args[*]} )); do
124     #
125     # Take a snapshot of the test file system.
126     #
127     log_must $ZFS snapshot ${args[i]}
129     #
130     # Clone a new file system from the snapshot
131     #
132     log_must $ZFS clone ${args[i]} ${args[i+2]}
133     if [[ -n ${args[i+3]} ]] ; then
134         log_must $ZFS set mountpoint=${args[i+3]} ${args[i+2]}
136         FILE_COUNT=`$LS -Al ${args[i+3]} | $GREP -v "total" \
137             | $GREP -v "\.zfs" | wc -l`
138         if [[ $FILE_COUNT -ne $COUNT ]]; then
139             $LS -Al ${args[i+3]}
140             log_fail "AFTER: ${args[i+3]} contains $FILE_COUNT files
141         fi
143         log_note "Verify the ${args[i+3]} directory is writable"
144         j=1
145         while [[ $j -le $COUNT ]]; do
146             log_must $FILE_WRITE -o create -f ${args[i+3]}/after_fil
147             -b $BLOCKSZ -c $NUM_WRITES -d $j
148             (( j = j + 1 ))
149         done
151         FILE_COUNT=`$LS -Al ${args[i+3]}/after* | $GREP -v "total" | wc
152         if [[ $FILE_COUNT -ne $COUNT ]]; then
153             $LS -Al ${args[i+3]}
154             log_fail "${args[i+3]} contains $FILE_COUNT after* files
155         fi
156     fi
158     (( i = i + 4 ))
159 done
161 log_pass "The clone file system is writable."
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/rollback_001_pos.ksh 1

```
*****
3056 Fri Nov 22 15:22:02 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/rollback_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Populate a file system and take a snapshot. Add some more files to the
38 # file system and rollback to the last snapshot. Verify no post snapshot
39 # file exist.
40 #
41 # STRATEGY:
42 # 1. Empty a file system
43 # 2. Populate the file system
44 # 3. Take a snapshot of the file system
45 # 4. Add new files to the file system
46 # 5. Perform a rollback
47 # 6. Verify the snapshot and file system agree
48 #
49 #
50 verify_runnable "both"
51 #
52 function cleanup
53 {
54     snapexists $SNAPFS
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/rollback_001_pos.ksh 2

```
55     [[ $? -eq 0 ]] && \
56         log_must $ZFS destroy $SNAPFS
57 #
58     [[ -e $TESTDIR ]] && \
59         log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
60 }
61 #
62 log_assert "Verify that a rollback to a previous snapshot succeeds."
63 #
64 log_onexit cleanup
65 #
66 [[ -n $TESTDIR ]] && \
67     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
68 #
69 typeset -i COUNT=10
70 #
71 log_note "Populate the $TESTDIR directory (prior to snapshot)"
72 typeset -i i=1
73 while [[ $i -le $COUNT ]]; do
74     log_must $FILE_WRITE -o create -f $TESTDIR/before_file$i \
75         -b $BLOCKSZ -c $NUM_WRITES -d $i
76 #
77     (( i = i + 1 ))
78 done
79 #
80 log_must $ZFS snapshot $SNAPFS
81 #
82 FILE_COUNT=`$LS -Al $SNAPDIR | $GREP -v "total" | wc -l`
83 if [[ $FILE_COUNT -ne $COUNT ]]; then
84     $LS -Al $SNAPDIR
85     log_fail "AFTER: $SNAPFS contains $FILE_COUNT files(s)."
86 fi
87 #
88 log_note "Populate the $TESTDIR directory (post snapshot)"
89 typeset -i i=1
90 while [[ $i -le $COUNT ]]; do
91     log_must $FILE_WRITE -o create -f $TESTDIR/after_file$i \
92         -b $BLOCKSZ -c $NUM_WRITES -d $i
93 #
94     (( i = i + 1 ))
95 done
96 #
97 #
98 # Now rollback to latest snapshot
99 #
100 log_must $ZFS rollback $SNAPFS
101 #
102 FILE_COUNT=`$LS -Al $TESTDIR/after* 2> /dev/null | $GREP -v "total" | wc -l`
103 if [[ $FILE_COUNT -ne 0 ]]; then
104     $LS -Al $TESTDIR
105     log_fail "$TESTDIR contains $FILE_COUNT after* files(s)."
106 fi
107 #
108 FILE_COUNT=`$LS -Al $TESTDIR/before* 2> /dev/null \
109     | $GREP -v "total" | wc -l`
110 if [[ $FILE_COUNT -ne $COUNT ]]; then
111     $LS -Al $TESTDIR
112     log_fail "$TESTDIR contains $FILE_COUNT before* files(s)."
113 fi
114 #
115 log_pass "The rollback operation succeeded."
```


new/usr/src/test/zfs-tests/tests/functional/snapshot/rollback_002_pos.ksh

1

```
*****
3544 Fri Nov 22 15:22:02 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/rollback_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Verify that rollbacks are with respect to the latest snapshot.
38 #
39 # STRATEGY:
40 # 1. Empty a file system
41 # 2. Populate the file system
42 # 3. Take a snapshot of the file system
43 # 4. Add new files to the file system
44 # 5. Take a snapshot
45 # 6. Remove the original files
46 # 7. Perform a rollback
47 # 8. Verify the latest snapshot and file system agree
48 #
49 #
50 verify_runnable "both"
51 #
52 function cleanup
53 {
54     snapexists $SNAPFS.1
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/rollback_002_pos.ksh

2

```
55     [[ $? -eq 0 ]] && \
56         log_must $ZFS destroy $SNAPFS.1
57 #
58 snapexists $SNAPFS
59 [[ $? -eq 0 ]] && \
60     log_must $ZFS destroy $SNAPFS
61 #
62 [[ -e $TESTDIR ]] && \
63     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
64 }
65 #
66 log_assert "Verify rollback is with respect to latest snapshot."
67 #
68 log_onexit cleanup
69 #
70 [[ -n $TESTDIR ]] && \
71     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
72 #
73 typeset -i COUNT=10
74 #
75 log_note "Populate the $TESTDIR directory (prior to first snapshot)"
76 typeset -i i=1
77 while [[ $i -le $COUNT ]]; do
78     log_must $FILE_WRITE -o create -f $TESTDIR/original_file$i \
79         -b $BLOCKSZ -c $NUM_WRITES -d $i
80 #
81     (( i = i + 1 ))
82 done
83 #
84 log_must $ZFS snapshot $SNAPFS
85 #
86 FILE_COUNT=`$LS -Al $SNAPDIR | $GREP -v "total" | wc -l`
87 if [[ $FILE_COUNT -ne $COUNT ]]; then
88     $LS -Al $SNAPDIR
89     log_fail "AFTER: $SNAPFS contains $FILE_COUNT files(s)."
90 fi
91 #
92 log_note "Populate the $TESTDIR directory (prior to second snapshot)"
93 typeset -i i=1
94 while [[ $i -le $COUNT ]]; do
95     log_must $FILE_WRITE -o create -f $TESTDIR/afterfirst_file$i \
96         -b $BLOCKSZ -c $NUM_WRITES -d $i
97 #
98     (( i = i + 1 ))
99 done
100 #
101 log_must $ZFS snapshot $SNAPFS.1
102 #
103 log_note "Populate the $TESTDIR directory (Post second snapshot)"
104 typeset -i i=1
105 while [[ $i -le $COUNT ]]; do
106     log_must $FILE_WRITE -o create -f $TESTDIR/aftersecond_file$i \
107         -b $BLOCKSZ -c $NUM_WRITES -d $i
108 #
109     (( i = i + 1 ))
110 done
111 #
112 [[ -n $TESTDIR ]] && \
113     log_must $RM -rf $TESTDIR/original_file* > /dev/null 2>&1
114 #
115 #
116 # Now rollback to latest snapshot
117 #
118 log_must $ZFS rollback $SNAPFS.1
119 #
120 FILE_COUNT=`$LS -Al $TESTDIR/aftersecond* 2> /dev/null \
```

```
121 | $GREP -v "total" | wc -l`
122 if [[ $FILE_COUNT -ne 0 ]]; then
123     $LS -Al $TESTDIR
124     log_fail "$TESTDIR contains $FILE_COUNT aftersecond* files(s)."
125 fi

127 FILE_COUNT=`$LS -Al $TESTDIR/original* $TESTDIR/afterfirst* | $GREP -v "total" |
128 if [[ $FILE_COUNT -ne 20 ]]; then
129     $LS -Al $TESTDIR
130     log_fail "$TESTDIR contains $FILE_COUNT original* files(s)."
131 fi

133 log_pass "The rollback to the latest snapshot succeeded."
```

```

*****
2754 Fri Nov 22 15:22:03 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/rollback_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/cli_root/zfs_rollback/zfs_rollback_common.kshlib
34 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
35 #
36 #
37 #
38 # DESCRIPTION:
39 # Verify that rollbacks succeed when there are nested file systems.
40 #
41 # STRATEGY:
42 # 1) Snapshot an empty file system and rollback
43 # 2) Create a file in the file system
44 # 3) Rollback the file system to empty
45 # 4) Create a nested file system with the same name as the file created in (2)
46 # 5) Verify a rollback succeeds
47 #
48 #
49 verify_runnable "both"
50 #
51 function cleanup
52 {
53     typeset snap=""
54     typeset fs=""

```

```

56     export __ZFS_POOL_RESTRICT="$TESTPOOL"
57     log_must $ZFS mount -a
58     unset __ZFS_POOL_RESTRICT
59 #
60 for snap in "$SNAPPPOOL.1" "$SNAPPPOOL"
61 do
62     snapexists $snap
63     [[ $? -eq 0 ]] && \
64         log_must $ZFS destroy $snap
65 done
66 #
67 for fs in "$TESTPOOL/$TESTFILE/$TESTFILE.1" "$TESTPOOL/$TESTFILE"
68 do
69     datasetexists $fs
70     [[ $? -eq 0 ]] && \
71         log_must $ZFS destroy -r $fs
72 done
73 #
74 [[ -e /$TESTPOOL ]] && \
75     log_must $RM -rf $TESTPOOL/*
76 }
77 #
78 log_assert "Verify rollback succeeds when there are nested file systems."
79 #
80 log_onexit cleanup
81 #
82 log_must $ZFS snapshot $SNAPPPOOL
83 log_must $ZFS rollback $SNAPPPOOL
84 log_mustnot $ZFS snapshot $SNAPPPOOL
85 #
86 log_must $TOUCH /$TESTPOOL/$TESTFILE
87 #
88 log_must $ZFS rollback $SNAPPPOOL
89 log_must $ZFS create $TESTPOOL/$TESTFILE
90 #
91 log_must $ZFS rollback $SNAPPPOOL
92 #
93 log_note "Verify rollback of multiple nested file systems succeeds."
94 log_must $ZFS snapshot $TESTPOOL/$TESTFILE@$TESTSNAP
95 log_must $ZFS snapshot $SNAPPPOOL.1
96 #
97 export __ZFS_POOL_RESTRICT="$TESTPOOL"
98 log_must $ZFS unmount -a
99 log_must $ZFS mount -a
100 unset __ZFS_POOL_RESTRICT
101 #
102 log_must $TOUCH /$TESTPOOL/$TESTFILE/$TESTFILE.1
103 #
104 log_must $ZFS rollback $SNAPPPOOL.1
105 #
106 log_pass "Rollbacks succeed when nested file systems are present."

```

new/usr/src/test/zfs-tests/tests/functional/snapshot/setup.ksh

1

1073 Fri Nov 22 15:22:03 2013

new/usr/src/test/zfs-tests/tests/functional/snapshot/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

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27 #
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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_container_volume_setup ${DISK}
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot.cfg

1

1657 Fri Nov 22 15:22:04 2013

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot.cfg

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 export TESTFILE=testfile-snapshot
34 export SNAPROOT=".zfs/snapshot"
35 #
36 export SNAPPPOOL="$TESTPOOL@$TESTSNAP"
37 export SNAPFS="$TESTPOOL/$TESTFS@$TESTSNAP"
38 export SNAPFS1="$TESTPOOL/$TESTVOL@$TESTSNAP"
39 export SNAPFS2="$TESTPOOL1/$TESTFS@$TESTSNAP"
40 export SNAPCTR="$TESTPOOL/$TESTCTR/$TESTFS1@$TESTSNAP"
41 export SNAPDIR="$TESTDIR/$SNAPROOT/$TESTSNAP"
42 export SNAPDIR1="$TESTDIR1/$SNAPROOT/$TESTSNAP"
43 export SNAPDIR2="$TESTDIR2/$SNAPROOT/$TESTSNAP"
44 export SNAPDIR3="$SNAPFS1"
45 #
46 export VOLSIZE=1gb
47 export BLOCKSZ=8192
48 export NUM_WRITES=20
49 export DATA=0
50 export LIMIT=524288 # tolerance measured in bytes, 512K
51 export FSQUOTA=500m
52 export FILESIZE=400m
53 export FILESIZE1=200m
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_001_pos.ksh 1

```
*****
2565 Fri Nov 22 15:22:04 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # A zfs file system snapshot is identical to
38 # the originally snapshot'd file system, after the file
39 # system has been changed. Uses 'sum -r'.
40 #
41 # STRATEGY:
42 # 1. Create a file in the zfs file system
43 # 2. Checksum the file for later comparison
44 # 3. Create a snapshot of the dataset
45 # 4. Append to the original file
46 # 5. Verify the snapshot and file agree
47 #
48 #
49 verify_runnable "both"
50 #
51 function cleanup
52 {
53     snapexists $SNAPFS
54     if [[ $? -eq 0 ]]; then
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_001_pos.ksh 2

```
55         log_must $ZFS destroy $SNAPFS
56     fi
57 #
58     if [[ -e $SNAPDIR ]]; then
59         log_must $RM -rf $SNAPDIR > /dev/null 2>&1
60     fi
61 #
62     if [[ -e $TESTDIR ]]; then
63         log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
64     fi
65 }
66 #
67 log_assert "Verify a file system snapshot is identical to original."
68 #
69 log_onexit cleanup
70 #
71 log_note "Create a file in the zfs filesystem..."
72 log_must $FILE_WRITE -o create -f $TESTDIR/$TESTFILE -b $BLOCKSZ \
73     -c $NUM_WRITES -d $DATA
74 #
75 log_note "Sum the file, save for later comparison..."
76 FILE_SUM=`$SUM -r $TESTDIR/$TESTFILE | $AWK '{ print $1 }'`
77 log_note "FILE_SUM = $FILE_SUM"
78 #
79 log_note "Create a snapshot and mount it..."
80 log_must $ZFS snapshot $SNAPFS
81 #
82 log_note "Append to the original file..."
83 log_must $FILE_WRITE -o append -f $TESTDIR/$TESTFILE -b $BLOCKSZ \
84     -c $NUM_WRITES -d $DATA
85 #
86 SNAP_FILE_SUM=`$SUM -r $SNAPDIR/$TESTFILE | $AWK '{ print $1 }'`
87 if [[ $SNAP_FILE_SUM -ne $FILE_SUM ]]; then
88     log_fail "Sums do not match, aborting!! ($SNAP_FILE_SUM != $FILE_SUM)"
89 fi
90 #
91 log_pass "Both Sums match. ($SNAP_FILE_SUM == $FILE_SUM)"
```

```

*****
3668 Fri Nov 22 15:22:04 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # An archive of a zfs file system and an archive of its snapshot
38 # is identical even though the original file system has
39 # changed since the snapshot was taken.
40 #
41 # STRATEGY:
42 # 1) Create files in all of the zfs file systems
43 # 2) Create a tarball of the file system
44 # 3) Create a snapshot of the dataset
45 # 4) Remove all the files in the original file system
46 # 5) Create a tarball of the snapshot
47 # 6) Extract each tarball and compare directory structures
48 #
49 #
50 verify_runnable "both"
51 #
52 function cleanup
53 {
54     if [[ -d $CWD ]]; then

```

```

55         cd $CWD || log_fail "Could not cd $CWD"
56     fi
57 #
58     snapexists $SNAPFS
59     if [[ $? -eq 0 ]]; then
60         log_must $ZFS destroy $SNAPFS
61     fi
62 #
63     if [[ -e $SNAPDIR ]]; then
64         log_must $RM -rf $SNAPDIR > /dev/null 2>&1
65     fi
66 #
67     if [[ -e $TESTDIR ]]; then
68         log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
69     fi
70 #
71     if [[ -e /tmp/zfs_snapshot2.$$ ]]; then
72         log_must $RM -rf /tmp/zfs_snapshot2.$$ > /dev/null 2>&1
73     fi
74 #
75 }
76 #
77 log_assert "Verify an archive of a file system is identical to " \
78     "an archive of its snapshot."
79 #
80 log_onexit cleanup
81 #
82 typeset -i COUNT=21
83 typeset OP=create
84 #
85 [[ -n $TESTDIR ]] && \
86     $RM -rf $TESTDIR/* > /dev/null 2>&1
87 #
88 log_note "Create files in the zfs filesystem..."
89 #
90 typeset i=1
91 while [ $i -lt $COUNT ]; do
92     log_must $FILE_WRITE -o $OP -f $TESTDIR/file$i \
93         -b $BLOCKSZ -c $NUM_WRITES -d $DATA
94 #
95     (( i = i + 1 ))
96 done
97 #
98 log_note "Create a tarball from $TESTDIR contents..."
99 CWD=$PWD
100 cd $TESTDIR || log_fail "Could not cd $TESTDIR"
101 log_must $TAR cf $TESTDIR/tarball.original.tar file*
102 cd $CWD || log_fail "Could not cd $CWD"
103 #
104 log_note "Create a snapshot and mount it..."
105 log_must $ZFS snapshot $SNAPFS
106 #
107 log_note "Remove all of the original files..."
108 log_must $RM -f $TESTDIR/file* > /dev/null 2>&1
109 #
110 log_note "Create tarball of snapshot..."
111 CWD=$PWD
112 cd $SNAPDIR || log_fail "Could not cd $SNAPDIR"
113 log_must $TAR cf $TESTDIR/tarball.snapshot.tar file*
114 cd $CWD || log_fail "Could not cd $CWD"
115 #
116 log_must $MKDIR $TESTDIR/original
117 log_must $MKDIR $TESTDIR/snapshot
118 #
119 CWD=$PWD
120 cd $TESTDIR/original || log_fail "Could not cd $TESTDIR/original"

```

```
121 log_must $TAR xf $TESTDIR/tarball.original.tar
123 cd $TESTDIR/snapshot || log_fail "Could not cd $TESTDIR/snapshot"
124 log_must $TAR xf $TESTDIR/tarball.snapshot.tar
126 cd $CWD || log_fail "Could not cd $CWD"
128 $DIRCMP $TESTDIR/original $TESTDIR/snapshot > /tmp/zfs_snapshot2.$$
129 $GREP different /tmp/zfs_snapshot2.$$ >/dev/null 2>&1
130 if [[ $? -ne 1 ]]; then
131     log_fail "Directory structures differ."
132 fi
134 log_pass "Directory structures match."
```


new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_003_pos.ksh 1

```
*****
2528 Fri Nov 22 15:22:04 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Verify that many snapshots can be made on a zfs file system.
38 #
39 # STRATEGY:
40 # 1) Create a files in the zfs file system
41 # 2) Create a snapshot of the dataset
42 # 3) Remove all the files from the original file system
43 # 4) Verify consistency of each snapshot directory
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     typeset -i i=1
51     while [ $i -lt $COUNT ]; do
52         snapexists $SNAPFS.$i
53         if [[ $? -eq 0 ]]; then
54             log_must $ZFS destroy $SNAPFS.$i
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_003_pos.ksh 2

```
55     fi
56 #
57     if [[ -e $SNAPDIR.$i ]]; then
58         log_must $RM -rf $SNAPDIR.$i > /dev/null 2>&1
59     fi
60 #
61     (( i = i + 1 ))
62 done
63 #
64     if [[ -e $TESTDIR ]]; then
65         log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
66     fi
67 }
68 #
69 log_assert "Verify many snapshots of a file system can be taken."
70 #
71 log_onexit cleanup
72 #
73 [[ -n $TESTDIR ]] && \
74     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
75 #
76 typeset -i COUNT=10
77 #
78 log_note "Create some files in the $TESTDIR directory..."
79 typeset -i i=1
80 while [[ $i -lt $COUNT ]]; do
81     log_must $FILE_WRITE -o create -f $TESTDIR/file$i \
82         -b $BLOCKSZ -c $NUM_WRITES -d $i
83     log_must $ZFS snapshot $SNAPFS.$i
84 #
85     (( i = i + 1 ))
86 done
87 #
88 log_note "Remove all of the original files"
89 [[ -n $TESTDIR ]] && \
90     log_must $RM -rf $TESTDIR/file* > /dev/null 2>&1
91 #
92 i=1
93 while [[ $i -lt $COUNT ]]; do
94     FILECOUNT=`$LS $SNAPDIR.$i/file* | wc -l`
95     typeset j=1
96     while [ $j -lt $FILECOUNT ]; do
97         log_must $FILE_CHECK $SNAPDIR.$i/file$j $j
98         (( j = j + 1 ))
99     done
100    (( i = i + 1 ))
101 done
102 #
103 log_pass "All files are consistent"
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_004_pos.ksh

1

```
*****
2340 Fri Nov 22 15:22:05 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Create a null snapshot i.e. a snapshot created before file system
38 # activity is empty.
39 #
40 # STRATEGY:
41 # 1. Empty a file system
42 # 2. Take a snapshot of the empty file system.
43 # 3. Populate the file system
44 # 4. Verify the snapshot is still empty
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     snapexists $SNAPFS
52     [[ $? -eq 0 ]] && \
53         log_must $ZFS destroy $SNAPFS
54 }
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_004_pos.ksh

2

```
55     [[ -e $TESTDIR ]] && \
56         log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
57 }
58 #
59 log_assert "Verify that a snapshot of an empty file system remains empty."
60 #
61 log_onexit cleanup
62 #
63 [[ -n $TESTDIR ]] && \
64     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
65 #
66 log_must $ZFS snapshot $SNAPFS
67 FILE_COUNT=`$LS -Al $SNAPDIR | $GREP -v "total 0" | wc -l`
68 if [[ $FILE_COUNT -ne 0 ]]; then
69     $LS $SNAPDIR
70     log_fail "BEFORE: $SNAPDIR contains $FILE_COUNT files(s)."
71 fi
72 #
73 typeset -i COUNT=10
74 #
75 log_note "Populate the $TESTDIR directory"
76 typeset -i i=1
77 while [[ $i -lt $COUNT ]]; do
78     log_must $FILE_WRITE -o create -f $TESTDIR/file$i \
79         -b $BLOCKSZ -c $NUM_WRITES -d $i
80     (( i = i + 1 ))
81 done
82 #
83 #
84 FILE_COUNT=`$LS -Al $SNAPDIR | $GREP -v "total 0" | wc -l`
85 if [[ $FILE_COUNT -ne 0 ]]; then
86     $LS $SNAPDIR
87     log_fail "AFTER: $SNAPDIR contains $FILE_COUNT files(s)."
88 fi
89 #
90 log_pass "The NULL snapshot remains empty."
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_005_pos.ksh 1

```
*****
2542 Fri Nov 22 15:22:05 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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Reviewed by: Will Guyette <will.guyette@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # to the originally snapshot'd file system, after the file
38 # system has been changed. Uses 'sum -r'.
39 #
40 # STRATEGY:
41 # 1) Create a file in the zfs dataset
42 # 2) Sum the file for later comparison
43 # 3) Create a snapshot of the dataset
44 # 4) Append to the original file
45 # 5) Verify both checksums match
46 #
47 #
48 verify_runnable "both"
49 #
50 function cleanup
51 {
52     snapexists $SNAPCTR
53     if [[ $? -eq 0 ]]; then
54         log_must $ZFS destroy $SNAPCTR
55     fi
56 }
57 #
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_005_pos.ksh 2

```
55     fi
56 #
57     if [[ -e $SNAPDIR1 ]]; then
58         log_must $RM -rf $SNAPDIR1 > /dev/null 2>&1
59     fi
60 #
61     if [[ -e $TESTDIR ]]; then
62         log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
63     fi
64 }
65 #
66 log_assert "Verify that a snapshot of a dataset is identical to " \
67     "the original dataset."
68 log_onexit cleanup
69 #
70 log_note "Create a file in the zfs filesystem..."
71 log_must $FILE_WRITE -o create -f $TESTDIR1/$TESTFILE -b $BLOCKSZ \
72     -c $NUM_WRITES -d $DATA
73 #
74 log_note "Sum the file, save for later comparison..."
75 FILE_SUM=`$SUM -r $TESTDIR1/$TESTFILE | $AWK '{ print $1 }'`
76 log_note "FILE_SUM = $FILE_SUM"
77 #
78 log_note "Create a snapshot and mount it..."
79 log_must $ZFS snapshot $SNAPCTR
80 #
81 log_note "Append to the original file..."
82 log_must $FILE_WRITE -o append -f $TESTDIR1/$TESTFILE -b $BLOCKSZ \
83     -c $NUM_WRITES -d $DATA
84 #
85 SNAP_FILE_SUM=`$SUM -r $SNAPDIR1/$TESTFILE | $AWK '{ print $1 }'`
86 if [[ $SNAP_FILE_SUM -ne $FILE_SUM ]]; then
87     log_fail "Sums do not match, aborting!! ($SNAP_FILE_SUM != $FILE_SUM)"
88 fi
89 #
90 log_pass "Both Sums match. ($SNAP_FILE_SUM == $FILE_SUM)"
```

```

*****
3621 Fri Nov 22 15:22:06 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # An archive of a zfs dataset and an archive of its snapshot
38 # changed since the snapshot was taken.
39 #
40 # STRATEGY:
41 # 1) Create some files in a ZFS dataset
42 # 2) Create a tarball of the dataset
43 # 3) Create a snapshot of the dataset
44 # 4) Remove all the files in the original dataset
45 # 5) Create a tarball of the snapshot
46 # 6) Extract each tarball and compare directory structures
47 #
48 #
49 verify_runnable "both"
50 #
51 function cleanup
52 {
53     if [[ -d $CWD ]]; then
54         cd $CWD || log_fail "Could not cd $CWD"

```

```

55     fi
56 #
57 snapexists $SNAPCTR
58 if [[ $? -eq 0 ]]; then
59     log_must $ZFS destroy $SNAPCTR
60 fi
61 #
62 if [[ -e $SNAPDIR1 ]]; then
63     log_must $RM -rf $SNAPDIR1 > /dev/null 2>&1
64 fi
65 #
66 if [[ -e $TESTDIR1 ]]; then
67     log_must $RM -rf $TESTDIR1/* > /dev/null 2>&1
68 fi
69 #
70 if [[ -e /tmp/zfs_snapshot2.$$ ]]; then
71     log_must $RM -rf /tmp/zfs_snapshot2.$$ > /dev/null 2>&1
72 fi
73 }
74 }
75 #
76 log_assert "Verify that an archive of a dataset is identical to " \
77     "an archive of the dataset's snapshot."
78 #
79 log_onexit cleanup
80 #
81 typeset -i COUNT=21
82 typeset OP=create
83 #
84 [[ -n $TESTDIR1 ]] && $RM -rf $TESTDIR1/* > /dev/null 2>&1
85 #
86 log_note "Create files in the zfs dataset ..."
87 #
88 typeset i=1
89 while [ $i -lt $COUNT ]; do
90     log_must $FILE_WRITE -o $OP -f $TESTDIR1/file$i \
91         -b $BLOCKSZ -c $NUM_WRITES -d $DATA
92 #
93     (( i = i + 1 ))
94 done
95 #
96 log_note "Create a tarball from $TESTDIR1 contents..."
97 CWD=$PWD
98 cd $TESTDIR1 || log_fail "Could not cd $TESTDIR1"
99 log_must $TAR cf $TESTDIR1/tarball.original.tar file*
100 cd $CWD || log_fail "Could not cd $CWD"
101 #
102 log_note "Create a snapshot and mount it..."
103 log_must $ZFS snapshot $SNAPCTR
104 #
105 log_note "Remove all of the original files..."
106 log_must $RM -f $TESTDIR1/file* > /dev/null 2>&1
107 #
108 log_note "Create tarball of snapshot..."
109 CWD=$PWD
110 cd $SNAPDIR1 || log_fail "Could not cd $SNAPDIR1"
111 log_must $TAR cf $TESTDIR1/tarball.snapshot.tar file*
112 cd $CWD || log_fail "Could not cd $CWD"
113 #
114 log_must $MKDIR $TESTDIR1/original
115 log_must $MKDIR $TESTDIR1/snapshot
116 #
117 CWD=$PWD
118 cd $TESTDIR1/original || log_fail "Could not cd $TESTDIR1/original"
119 log_must $TAR xf $TESTDIR1/tarball.original.tar

```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_006_pos.ksh

3

```
121 cd $TESTDIR1/snapshot || log_fail "Could not cd $TESTDIR1/snapshot"
122 log_must $TAR xf $TESTDIR1/tarball.snapshot.tar

124 cd $CWD || log_fail "Could not cd $CWD"

126 $DIRCMP $TESTDIR1/original $TESTDIR1/snapshot > /tmp/zfs_snapshot2.$$
127 $GREP different /tmp/zfs_snapshot2.$$ >/dev/null 2>&1
128 if [[ $? -ne 1 ]]; then
129     log_fail "Directory structures differ."
130 fi

132 log_pass "Directory structures match."
```

```

*****
2608 Fri Nov 22 15:22:06 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Verify that many snapshots can be made on a zfs dataset.
38 #
39 # STRATEGY:
40 # 1) Create a file in the zfs dataset
41 # 2) Create a snapshot of the dataset
42 # 3) Remove all the files from the original dataset
43 # 4) For each snapshot directory verify consistency
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     typeset -i i=1
51     while [ $i -lt $COUNT ]; do
52         snapexists $SNAPCTR.$i
53         if [[ $? -eq 0 ]]; then
54             log_must $ZFS destroy $SNAPCTR.$i

```

```

55         fi
56     done
57     if [[ -e $SNAPDIR.$i ]]; then
58         log_must $RM -rf $SNAPDIR.$i > /dev/null 2>&1
59     fi
60 }
61 (( i = i + 1 ))
62 done
63 #
64 if [[ -e $SNAPDIR1 ]]; then
65     log_must $RM -rf $SNAPDIR1 > /dev/null 2>&1
66 fi
67 #
68 if [[ -e $TESTDIR ]]; then
69     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
70 fi
71 }
72 #
73 log_assert "Verify that many snapshots can be made on a zfs dataset."
74 #
75 log_onexit cleanup
76 #
77 [[ -n $TESTDIR ]] && \
78     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
79 #
80 typeset -i COUNT=10
81 #
82 log_note "Create some files in the $TESTDIR directory..."
83 typeset -i i=1
84 while [[ $i -lt $COUNT ]]; do
85     log_must $FILE WRITE -o create -f $TESTDIR1/file$i \
86         -b $BLOCKSZ -c $NUM_WRITES -d $i
87     log_must $ZFS snapshot $SNAPCTR.$i
88 }
89 (( i = i + 1 ))
90 done
91 #
92 log_note "Remove all of the original files"
93 [[ -n $TESTDIR ]] && \
94     log_must $RM -rf $TESTDIR1/file* > /dev/null 2>&1
95 #
96 i=1
97 while [[ $i -lt $COUNT ]]; do
98     FILECOUNT=`$LS $SNAPDIR1.$i/file* | wc -l`
99     typeset j=1
100    while [ $j -lt $FILECOUNT ]; do
101        log_must $FILE_CHECK $SNAPDIR1.$i/file$j $j
102        (( j = j + 1 ))
103    done
104    (( i = i + 1 ))
105 done
106 #
107 log_pass "All files are consistent"

```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_008_pos.ksh

1

```
*****
2482 Fri Nov 22 15:22:06 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Verify that destroying snapshots returns space to the pool.
38 #
39 # STRATEGY:
40 # 1. Create a file system and populate it while snapshotting.
41 # 2. Destroy the snapshots and remove the files.
42 # 3. Verify the space returns to the pool.
43 #
44 #
45 verify_runnable "both"
46 #
47 function cleanup
48 {
49     typeset -i i=1
50     while [[ $i -lt $COUNT ]]; do
51         snapexists $SNAPFS.$i
52         [[ $? -eq 0 ]] && \
53             log_must $ZFS destroy $SNAPFS.$i

```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_008_pos.ksh

2

```
55         (( i = i + 1 ))
56     done
57 #
58 [[ -e $TESTDIR ]] && \
59     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
60 }
61 #
62 log_assert "Verify that destroying snapshots returns space to the pool."
63 #
64 log_onexit cleanup
65 #
66 [[ -n $TESTDIR ]] && \
67     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
68 #
69 typeset -i COUNT=10
70 #
71 orig_size='get_prop available $TESTPOOL'
72 #
73 log_note "Populate the $TESTDIR directory"
74 typeset -i i=1
75 while [[ $i -lt $COUNT ]]; do
76     log_must $FILE_WRITE -o create -f $TESTDIR/file$i \
77         -b $BLOCKSZ -c $NUM_WRITES -d $i
78 #
79     log_must $ZFS snapshot $SNAPFS.$i
80     (( i = i + 1 ))
81 done
82 #
83 typeset -i i=1
84 while [[ $i -lt $COUNT ]]; do
85     log_must rm -rf $TESTDIR/file$i > /dev/null 2>&1
86     log_must $ZFS destroy $SNAPFS.$i
87 #
88     (( i = i + 1 ))
89 done
90 #
91 new_size='get_prop available $TESTPOOL'
92 #
93 typeset -i tolerance=0
94 #
95 (( tolerance = new_size - orig_size))
96 if (( tolerance > LIMIT )); then
97     log_fail "Space not freed. ($orig_size != $new_size)"
98 fi
99 #
100 log_pass "After destroying snapshots, the space is returned to the pool."
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_009_pos.ksh 1

```
*****
3162 Fri Nov 22 15:22:07 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 #   Verify 'snapshot -r' and 'destroy -r' can correctly create and destroy
38 #   snapshot tree respectively.
39 #
40 # STRATEGY:
41 # 1. Use the snapshot -r to create snapshot for top level pool
42 # 2. Verify the children snapshots are created correctly.
43 # 3. Use destroy -r to destroy the top level snapshot
44 # 4. Verify that all children snapshots are destroyed too.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     typeset ds
52     typeset snap
53 #
54     for ds in $ctr/$TESTVOL1 $ctr/$TESTCLONE; do
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_009_pos.ksh 2

```
55     datasetexists $ds && \
56         log_must $ZFS destroy -f $ds
57 done
58 #
59 for snap in $ctr/$TESTFS1@$TESTSNAP1 \
60     $snappool $snapvol $snapctr $snapctrvol \
61     $snapctrclone $snapctrfs
62 do
63     snapexists $snap && \
64         log_must $ZFS destroy -rf $snap
65 done
66 #
67 }
68 #
69 log_assert "Verify snapshot -r can correctly create a snapshot tree."
70 log_onexit cleanup
71 #
72 ctr=$TESTPOOL/$TESTCTR
73 ctrfs=$ctr/$TESTFS1
74 ctrclone=$ctr/$TESTCLONE
75 ctrvol=$ctr/$TESTVOL1
76 snappool=$SNAPPOL
77 snapfs=$SNAPFS
78 snapctr=$ctr/$TESTSNAP
79 snapvol=$SNAPFS1
80 snapctrvol=$ctrvol/$TESTSNAP
81 snapctrclone=$ctrclone/$TESTSNAP
82 snapctrfs=$SNAPCTR
83 #
84 #preparation for testing
85 log_must $ZFS snapshot $ctrfs@$TESTSNAP1
86 log_must $ZFS clone $ctrfs@$TESTSNAP1 $ctrclone
87 if is_global_zone; then
88     log_must $ZFS create -V $VOLSIZE $ctrvol
89 else
90     log_must $ZFS create $ctrvol
91 fi
92 #
93 log_must $ZFS snapshot -r $snappool
94 #
95 #verify the snapshot -r results
96 for snap in $snappool $snapfs $snapvol $snapctr $snapctrvol \
97     $snapctrclone $snapctrfs
98 do
99     ! snapexists $snap && \
100         log_fail "The snapshot $snap is not created via -r option."
101 done
102 #
103 log_note "Verify that destroy -r can destroy the snapshot tree."
104 #
105 log_must $ZFS destroy -r $snappool
106 for snap in $snappool $snapfs $snapvol $snapctr $snapctrvol \
107     $snapctrclone $snapctrfs
108 do
109     snapexists $snap && \
110         log_fail "The snapshot $snap is not destroyed correctly."
111 done
112 #
113 log_note "Verify that the snapshot with different name should \
114     be not destroyed."
115 ! snapexists $ctrfs@$TESTSNAP1 && \
116     log_fail "destroy -r incorrectly destroys the snapshot \
117     $ctrfs@$TESTSNAP1."
118 #
119 log_pass "snapshot|destroy -r with snapshot tree works as expected."
```


new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_010_pos.ksh 1

```
*****
2696 Fri Nov 22 15:22:07 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_010_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 # $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     Verify 'destroy -r' can correctly destroy a snapshot tree at any point.
38 #
39 # STRATEGY:
40 # 1. Use the snapshot -r to create snapshot for top level pool
41 # 2. Select a middle point of the snapshot tree, use destroy -r to destroy all
42 #     snapshots beneath the point.
43 # 3. Verify the destroy results.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     typeset snap
51 #
52     datasetexists $ctrvol && \
53         log_must $ZFS destroy -f $ctrvol
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_010_pos.ksh 2

```
55     for snap in $ctrfs@$TESTSNAP1 \
56         $snappool $snapvol $snapctr $snapctrvol \
57         $snapctrclone $snapctrfs
58     do
59         snapexists $snap && \
60             log_must $ZFS destroy -rf $snap
61     done
62 }
63 }
64 #
65 log_assert "Verify 'destroy -r' can correctly destroy a snapshot subtree at any
66 log_onexit cleanup
67 #
68 ctr=$TESTPOOL/$TESTCTR
69 ctrfs=$ctr/$TESTFS1
70 ctrvol=$ctr/$TESTVOL1
71 snappool=$SNAPPPOOL
72 snapfs=$SNAPFS
73 snapctr=$ctr@$TESTSNAP
74 snapvol=$SNAPFS1
75 snapctrvol=$ctr/$TESTVOL1@$TESTSNAP
76 snapctrclone=$ctr/$TESTCLONE@$TESTSNAP
77 snapctrfs=$SNAPCTR
78 #
79 #preparation for testing
80 log_must $ZFS snapshot $ctrfs@$TESTSNAP1
81 if is_global_zone; then
82     log_must $ZFS create -V $VOLSIZE $ctrvol
83 else
84     log_must $ZFS create $ctrvol
85 fi
86 #
87 log_must $ZFS snapshot -r $snappool
88 #
89 #select the $TESTCTR as destroy point, $TESTCTR is a child of $TESTPOOL
90 log_must $ZFS destroy -r $snapctr
91 for snap in $snapctr $snapctrvol $snapctrclone $snapctrfs; do
92     snapexists $snap && \
93         log_fail "The snapshot $snap is not destroyed correctly."
94 done
95 #
96 for snap in $snappool $snapfs $snapvol $ctrfs@$TESTSNAP1;do
97     ! snapexists $snap && \
98         log_fail "The snapshot $snap should be not destroyed."
99 done
100 #
101 log_pass "'destroy -r' destroys snapshot subtree as expected."
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_011_pos.ksh 1

```
*****
3192 Fri Nov 22 15:22:07 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_011_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # use 'snapshot -r' to create a snapshot tree, add some files to one child
38 # filesystem, rollback the child filesystem snapshot, verify that the chil
39 # filesystem gets back to the status while taking the snapshot.
40 #
41 # STRATEGY:
42 # 1. Add some files to a target child filesystem
43 # 2. snapshot -r the parent filesystem
44 # 3. Add some other files to the target child filesystem
45 # 4. rollback the child filesystem snapshot
46 # 5. verify that the child filesystem get back to the status while being
47 # snapshot'd
48 #
49 #
50 verify_runnable "both"
51 #
52 function cleanup
53 {
54     snapexists $SNAPPPOOL && \
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_011_pos.ksh 2

```
55     log_must $ZFS destroy -r $SNAPPPOOL
56 #
57 [[ -e $TESTDIR ]] && \
58     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
59 }
60 #
61 log_assert "Verify that rollback to a snapshot created by snapshot -r succeeds."
62 log_onexit cleanup
63 #
64 [[ -n $TESTDIR ]] && \
65     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
66 #
67 typeset -i COUNT=10
68 #
69 log_note "Populate the $TESTDIR directory (prior to snapshot)"
70 typeset -i i=0
71 while (( i < COUNT )); do
72     log_must $FILE_WRITE -o create -f $TESTDIR/before_file$i \
73         -b $BLOCKSZ -c $NUM_WRITES -d $i
74 #
75     (( i = i + 1 ))
76 done
77 #
78 log_must $ZFS snapshot -r $SNAPPPOOL
79 #
80 FILE_COUNT=`$LS -Al $SNAPDIR | $GREP -v "total" | wc -l`
81 if (( FILE_COUNT != COUNT )); then
82     $LS -Al $SNAPDIR
83     log_fail "AFTER: $SNAPFS contains $FILE_COUNT files(s)."
84 fi
85 #
86 log_note "Populate the $TESTDIR directory (post snapshot)"
87 typeset -i i=0
88 while (( i < COUNT )); do
89     log_must $FILE_WRITE -o create -f $TESTDIR/after_file$i \
90         -b $BLOCKSZ -c $NUM_WRITES -d $i
91 #
92     (( i = i + 1 ))
93 done
94 #
95 #
96 # Now rollback to latest snapshot
97 #
98 log_must $ZFS rollback $SNAPFS
99 #
100 FILE_COUNT=`$LS -Al $TESTDIR/after* 2> /dev/null | $GREP -v "total" | wc -l`
101 if (( FILE_COUNT != 0 )); then
102     $LS -Al $TESTDIR
103     log_fail "$TESTDIR contains $FILE_COUNT after* files(s)."
104 fi
105 #
106 FILE_COUNT=`$LS -Al $TESTDIR/before* 2> /dev/null \
107     | $GREP -v "total" | wc -l`
108 if (( FILE_COUNT != $COUNT )); then
109     $LS -Al $TESTDIR
110     log_fail "$TESTDIR contains $FILE_COUNT before* files(s)."
111 fi
112 #
113 log_pass "Rollback with child snapshot works as expected."
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_012_pos.ksh 1

```
*****
2907 Fri Nov 22 15:22:08 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_012_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 # . $STF_SUITE/include/libtest.shlib
33 # . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Verify 'snapshot -r' can create snapshot for promoted clone, and vice
38 # versa, a clone filesystem from the snapshot created by 'snapshot -r'
39 # can be correctly promoted.
40 #
41 # STRATEGY:
42 # 1. Create a dataset tree
43 # 2. snapshot a filesystem and clone the snapshot
44 # 3. promote the clone
45 # 4. snapshot -r the dataset tree
46 # 5. verify that the snapshot of cloned filesystem is created correctly
47 # 6. clone a snapshot from the snapshot tree
48 # 7. promote the clone
49 # 8. verify that the clone is promoted correctly.
50 #
51 #
52 verify_runnable "both"
53 #
54 function cleanup
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_012_pos.ksh 2

```
55 {
56     if datasetexists $clone1; then
57         log_must $ZFS promote $ctrfs
58         log_must $ZFS destroy $clone1
59     fi
60 #
61     snapexists $snapctr && \
62         log_must $ZFS destroy -r $snapctr
63 #
64     if snapexists $clone@TESTSNAP1; then
65         log_must $ZFS promote $ctrfs
66         log_must $ZFS destroy -r $ctrfs@TESTSNAP1
67     fi
68 }
69 #
70 log_assert "Verify that 'snapshot -r' can work with 'zfs promote'."
71 log_onexit cleanup
72 #
73 ctr=$TESTPOOL/$TESTCTR
74 ctrfs=$ctr/$TESTFS1
75 clone=$ctr/$TESTCLONE
76 clone1=$ctr/$TESTCLONE1
77 snappool=$SNAPPPOOL
78 snapfs=$SNAPFS
79 snapctr=$ctr@TESTSNAP
80 snapctrclone=$clone@TESTSNAP
81 snapctrclone1=$clone1@TESTSNAP
82 snapctrfs=$SNAPCTR
83 #
84 #preparation for testing
85 log_must $ZFS snapshot $ctrfs@TESTSNAP1
86 log_must $ZFS clone $ctrfs@TESTSNAP1 $clone
87 log_must $ZFS promote $clone
88 #
89 log_must $ZFS snapshot -r $snapctr
90 #
91 ! snapexists $snapctrclone && \
92     log_fail "'snapshot -r' fails to create $snapctrclone for $ctr/$TESTCLON
93 #
94 log_must $ZFS clone $snapctrfs $clone1
95 log_must $ZFS promote $clone1
96 #
97 #verify the origin value is correct.
98 orig_value=$(get_prop origin $ctrfs)
99 if ! snapexists $snapctrclone1 || [[ "$orig_value" != "$snapctrclone1" ]]; then
100     log_fail "'zfs promote' fails to promote $clone which is cloned from \
101         $snapctrfs."
102 fi
103 #
104 log_pass "'snapshot -r' can work with 'zfs promote' as expected."
```

```

*****
2656 Fri Nov 22 15:22:08 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_013_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 #   verify that the snapshots created by 'snapshot -r' can be used for
38 #   zfs send/recv
39 #
40 # STRATEGY:
41 #   1. create a dataset tree and populate a filesystem
42 #   2. snapshot -r the dataset tree
43 #   3. select one snapshot used for zfs send/recv
44 #   4. verify the data integrity after zfs send/recv
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     datasetexists $ctrfs && \
52         $ZFS destroy -r $ctrfs
53 }
54 snapexists $snappool && \

```

```

55     log_must $ZFS destroy -r $snappool
56 #
57 [[ -e $TESTDIR ]] && \
58     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
59 }
60 #
61 log_assert "Verify snapshots from 'snapshot -r' can be used for zfs send/recv"
62 log_onexit cleanup
63 #
64 ctr=$TESTPOOL/$TESTCTR
65 ctrfs=$ctr/$TESTFS
66 snappool=$SNAPPPOOL
67 snapfs=$SNAPFS
68 snapctr=$ctr/$TESTSNAP
69 snapctrfs=$ctrfs/$TESTSNAP
70 fsdir=$ctrfs
71 snapdir=$fsdir/.zfs/snapshot/$TESTSNAP
72 #
73 [[ -n $TESTDIR ]] && \
74     log_must $RM -rf $TESTDIR/* > /dev/null 2>&1
75 #
76 typeset -i COUNT=10
77 #
78 log_note "Populate the $TESTDIR directory (prior to snapshot)"
79 typeset -i i=0
80 while (( i < COUNT )); do
81     log_must $FILE_WRITE -o create -f $TESTDIR/file$i \
82         -b $BLOCKSZ -c $NUM_WRITES -d $i
83     (( i = i + 1 ))
84 done
85 #
86 #
87 log_must $ZFS snapshot -r $snappool
88 #
89 $ZFS send $snapfs | $ZFS receive $ctrfs >/dev/null 2>&1
90 if ! datasetexists $ctrfs || ! snapexists $snapctrfs; then
91     log_fail "zfs send/receive fails with snapshot $snapfs."
92 fi
93 #
94 for dir in $fsdir $snapdir; do
95     FILE_COUNT=`$LS -Al $dir | $GREP -v "total" | wc -l`
96     (( FILE_COUNT != COUNT )) && log_fail "Got $FILE_COUNT expected $COUNT"
97 done
98 #
99 log_pass "'zfs send/receive' works as expected with snapshots from 'snapshot -r'"

```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_014_pos.ksh 1

```
*****
2232 Fri Nov 22 15:22:08 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_014_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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4208 Typo in zfs_main.c: "posxiuser"
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
34 #
35 #
36 # DESCRIPTION:
37 #     verify that creating/destroying snapshots do things clean
38 #
39 # STRATEGY:
40 #     1. create a dataset and set a quota with 500m
41 #     2. create file of size 400m on the dataset
42 #     3. take a snapshot and destroy it
43 #     4. then create file to use all spaces in the dataset
44 #     5. verify removing the first file should succeed
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     [[ -e $TESTDIR1 ]] && \
52         log_must $RM -rf $TESTDIR1/* > /dev/null 2>&1
53 }
54 snapexists $SNAPCTR && \
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_014_pos.ksh 2

```
55     log_must $ZFS destroy $SNAPCTR
56 #
57     datasetexists $TESTPOOL/$TESTCTR/$TESTFS1 && \
58         log_must $ZFS set quota=none $TESTPOOL/$TESTCTR/$TESTFS1
59 #
60 }
61 #
62 log_assert "Verify creating/destroying snapshots do things clean"
63 log_onexit cleanup
64 #
65 log_must $ZFS set quota=$FSQUOTA $TESTPOOL/$TESTCTR/$TESTFS1
66 log_must $MKFILE $FILESIZE $TESTDIR1/$TESTFILE
67 #
68 log_must $ZFS snapshot $SNAPCTR
69 log_must $ZFS destroy $SNAPCTR
70 #
71 log_note "Make the quota of filesystem is reached"
72 log_mustnot $MKFILE $FILESIZE1 $TESTDIR1/$TESTFILE1
73 #
74 log_note "Verify removing the first file should succeed after the snapshot is \
75     removed"
76 log_must $RM $TESTDIR1/$TESTFILE
77 #
78 log_pass "Verify creating/destroying snapshots do things clean"
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_015_pos.ksh 1

```
*****
3220 Fri Nov 22 15:22:09 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_015_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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31 #
32 #
33 . $STF_SUITE/include/libtest.shlib
34 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
35 . $STF_SUITE/tests/functional/cli_root/zfs_rollback/zfs_rollback_common.kshlib
36 #
37 #
38 # DESCRIPTION:
39 #     Verify snapshot can be created or destroy via mkdir or rm
40 #     in .zfs/snapshot.
41 #
42 # STRATEGY:
43 #     1. Verify make directories only successfully in .zfs/snapshot.
44 #     2. Verify snapshot can be created and destroy via mkdir and remove
45 #     directories in .zfs/snapshot.
46 #     3. Verify rollback to previous snapshot can succeed.
47 #     4. Verify remove directory in snapdir can destroy snapshot.
48 #
49 #
50 verify_runnable "both"
51 #
52 function cleanup
53 {
54     typeset -i i=0
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_015_pos.ksh 2

```
55     while ((i < snap_cnt)); do
56         typeset snap=${fs@snap.$i}
57         datasetexists $snap && log_must $ZFS destroy -f $snap
58     done
59     ((i += 1))
60 done
61 }
62 #
63 $ZFS 2>&1 | $GREP "allow" > /dev/null
64 (( $? != 0 )) && log_unsupported
65 #
66 log_assert "Verify snapshot can be created via mkdir in .zfs/snapshot."
67 log_onexit cleanup
68 #
69 fs=$TESTPOOL/$TESTFS
70 # Verify all the other directories are readonly.
71 mntpnt=$(get_prop mountpoint $fs)
72 snapdir=$mntpnt/.zfs
73 set -A ro_dirs "$snapdir" "$snapdir/snap" "$snapdir/snapshot"
74 for dir in ${ro_dirs[@]}; do
75     if [[ -d $dir ]]; then
76         log_mustnot $RM -rf $dir
77         log_mustnot $TOUCH $dir/testfile
78     else
79         log_mustnot $MKDIR $dir
80     fi
81 done
82 #
83 # Verify snapshot can be created via mkdir in .zfs/snapshot
84 typeset -i snap_cnt=5
85 typeset -i cnt=0
86 while ((cnt < snap_cnt)); do
87     testfile=$mntpnt/testfile.$cnt
88     log_must $MKFILE 1M $testfile
89     log_must $MKDIR $snapdir/snapshot/snap.$cnt
90     if ! datasetexists $fs@snap.$cnt ; then
91         log_fail "ERROR: $fs@snap.$cnt should exists."
92     fi
93 done
94 ((cnt += 1))
95 done
96 #
97 # Verify rollback to previous snapshot succeed.
98 ((cnt = RANDOM % snap_cnt))
99 log_must $ZFS rollback -r $fs@snap.$cnt
100 #
101 typeset -i i=0
102 while ((i < snap_cnt)); do
103     testfile=$mntpnt/testfile.$i
104     if ((i <= cnt)); then
105         if [[ ! -f $testfile ]]; then
106             log_fail "ERROR: $testfile should exists."
107         fi
108     else
109         if [[ -f $testfile ]]; then
110             log_fail "ERROR: $testfile should not exists."
111         fi
112     fi
113 done
114 ((i += 1))
115 done
116 #
117 # Verify remove directory in snapdir can destroy snapshot.
118 log_must $RMDIR $snapdir/snapshot/snap.$cnt
119 log_mustnot datasetexists $fs@snap.$cnt
```

```
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_015_pos.ksh 3
```

```
121 log_pass "Verify snapshot can be created via mkdir in .zfs/snapshot passed."
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_016_pos.ksh 1

```
*****
3047 Fri Nov 22 15:22:09 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_016_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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32 #
33 . $STF_SUITE/include/libtest.shlib
34 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
35 #
36 #
37 # DESCRIPTION:
38 #     Verify renamed snapshots via mv can be destroyed
39 #
40 # STRATEGY:
41 #     1. Create snapshot
42 #     2. Rename the snapshot via mv command
43 #     2. Verify destroying the renamed snapshot via 'zfs destroy' succeeds
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     datasetexists $SNAPFS && \
51         log_must $ZFS destroy -Rf $SNAPFS
52     datasetexists $TESTPOOL/$TESTFSS@snap_a && \
53         log_must $ZFS destroy -Rf $TESTPOOL/$TESTFSS@snap_a
54     datasetexists $TESTPOOL/$TESTCLONE@snap_a && \
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_016_pos.ksh 2

```
55         log_must $ZFS destroy -Rf $TESTPOOL/$TESTCLONE@snap_a
56 #
57     datasetexists $TESTPOOL/$TESTCLONE && \
58         log_must $ZFS destroy $TESTPOOL/$TESTCLONE
59     datasetexists $TESTPOOL/$TESTFSS && \
60         log_must $ZFS destroy $TESTPOOL/$TESTFSS
61 #
62     log_must $ZFS create $TESTPOOL/$TESTFSS
63     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFSS
64 }
65 #
66 log_assert "Verify renamed snapshots via mv can be destroyed."
67 log_onexit cleanup
68 #
69 # scenario 1
70 #
71 log_must $ZFS snapshot $SNAPFS
72 log_must $MV $TESTDIR/$SNAPROOT/$TESTSNAP $TESTDIR/$SNAPROOT/snap_a
73 #
74 datasetexists $TESTPOOL/$TESTFSS@snap_a || \
75     log_fail "rename snapshot via mv in .zfs/snapshot fails."
76 log_must $ZFS destroy $TESTPOOL/$TESTFSS@snap_a
77 #
78 # scenario 2
79 #
80 log_must $ZFS snapshot $SNAPFS
81 log_must $ZFS clone $SNAPFS $TESTPOOL/$TESTCLONE
82 log_must $MV $TESTDIR/$SNAPROOT/$TESTSNAP $TESTDIR/$SNAPROOT/snap_a
83 #
84 datasetexists $TESTPOOL/$TESTFSS@snap_a || \
85     log_fail "rename snapshot via mv in .zfs/snapshot fails."
86 log_must $ZFS promote $TESTPOOL/$TESTCLONE
87 # promote back to $TESTPOOL/$TESTFSS for scenario 3
88 log_must $ZFS promote $TESTPOOL/$TESTFSS
89 log_must $ZFS destroy $TESTPOOL/$TESTCLONE
90 log_must $ZFS destroy $TESTPOOL/$TESTFSS@snap_a
91 #
92 # scenario 3
93 #
94 log_must $ZFS snapshot $SNAPFS
95 log_must $ZFS clone $SNAPFS $TESTPOOL/$TESTCLONE
96 log_must $ZFS rename $SNAPFS $TESTPOOL/$TESTFSS@snap_a
97 log_must $ZFS promote $TESTPOOL/$TESTCLONE
98 log_must $ZFS destroy $TESTPOOL/$TESTFSS
99 log_must $ZFS destroy $TESTPOOL/$TESTCLONE@snap_a
100 #
101 log_pass "Verify renamed snapshots via mv can be destroyed."
```


new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_017_pos.ksh

1

```
*****
4378 Fri Nov 22 15:22:09 2013
new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_017_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 #
33 . $STF_SUITE/include/libtest.shlib
34 . $STF_SUITE/tests/functional/snapshot/snapshot.cfg
35 #
36 #
37 # DESCRIPTION:
38 #
39 # Directory structure of snapshots reflects filesystem structure.
40 #
41 # STRATEGY:
42 #
43 # This test makes sure that the directory structure of snapshots is
44 # a proper reflection of the filesystem the snapshot was taken of.
45 #
46 # 1. Create a simple directory structure of files and directories
47 # 2. Take a snapshot of the filesystem
48 # 3. Modify original filesystem
49 # 4. Walk down the snapshot directory structure verifying it
50 #    checking with both absolute and relative paths
51 #
52 #
53 verify_runnable "both"
```

new/usr/src/test/zfs-tests/tests/functional/snapshot/snapshot_017_pos.ksh

2

```
55 function cleanup
56 {
57     cd $SAVED_DIR
58
59     if datasetexists $TESTPOOL/$TESTFS ; then
60         log_must $ZFS destroy -Rf $TESTPOOL/$TESTFS
61     fi
62
63     log_must $ZFS create $TESTPOOL/$TESTFS
64     log_must $ZFS set mountpoint=$TESTDIR $TESTPOOL/$TESTFS
65 }
66
67 function verify_structure {
68
69     # check absolute paths
70     DIR=$PWD
71     verify_file $DIR/file1
72     verify_file $DIR/file2
73     verify_file $DIR/dir1/file3
74     verify_file $DIR/dir1/file4
75     verify_file $DIR/dir1/dir2/file5
76     verify_file $DIR/dir1/dir2/file6
77
78     verify_no_file $DIR/file99
79
80     # check relative paths
81     verify_file ./file1
82     verify_file ./file2
83     verify_file ./dir1/file3
84     verify_file ./dir1/file4
85     verify_file ./dir1/dir2/file5
86     verify_file ./dir1/dir2/file6
87
88     cd dir1
89     verify_file ../file1
90     verify_file ../file2
91     verify_file ../file3
92     verify_file ../file4
93
94     verify_no_file ../file99
95
96     cd dir2
97     verify_file ../file5
98     verify_file ../file6
99     verify_file ../file3
100    verify_file ../file4
101    verify_no_file ../file99
102
103    verify_file ../../file1
104    verify_file ../../file2
105    verify_no_file ../../file99
106 }
107
108 function verify_file {
109     if [ ! -e $1 ]
110     then
111         log_note "Working dir is $PWD"
112         log_fail "File $1 does not exist!"
113     fi
114 }
115
116 function verify_no_file {
117     if [ -e $1 ]
118     then
119         log_note "Working dir is $PWD"
120         log_fail "File $1 exists when it should not!"
121     fi
122 }
```

```

121     fi
122 }

124 function verify_dir {
125     if [ ! -d $1 ]
126     then
127         log_note "Working dir is $PWD"
128         log_fail "Directory $1 does not exist!"
129     fi
130 }

132 log_assert "Directory structure of snapshots reflects filesystem structure."
133 log_onexit cleanup

135 SAVED_DIR=$PWD

137 #
138 # Create a directory structure with the following files
139 #
140 # ./file1
141 # ./file2
142 # ./dir1/file3
143 # ./dir1/file4
144 # ./dir1/dir2/file5
145 # ./dir1/dir2/file6

147 cd $TESTDIR
148 $MKFILE 10m file1
149 $MKFILE 20m file2
150 $MKDIR dir1
151 cd dir1
152 $MKFILE 10m file3
153 $MKFILE 20m file4
154 $MKDIR dir2
155 cd dir2
156 $MKFILE 10m file5
157 $MKFILE 20m file6

159 # Now walk the directory structure verifying it
160 cd $TESTDIR
161 verify_structure

163 # Take snapshots
164 log_must $ZFS snapshot $TESTPOOL/$TESTFS@snap_a
165 log_must $ZFS snapshot $TESTPOOL/$TESTFS@snap_b

167 # Change the filesystem structure by renaming files in the original structure
168 # The snapshot file structure should not change
169 cd $TESTDIR
170 log_must $MV file2 file99
171 cd dir1
172 log_must $MV file4 file99
173 cd dir2
174 log_must $MV file6 file99

176 # verify the top level snapshot directories
177 verify_dir $TESTDIR/.zfs
178 verify_dir $TESTDIR/.zfs/snapshot
179 verify_dir $TESTDIR/.zfs/snapshot/snap_a
180 verify_dir $TESTDIR/.zfs/snapshot/snap_b

182 cd $TESTDIR/.zfs/snapshot/snap_a
183 verify_structure

185 cd $TESTDIR/.zfs/snapshot/snap_b
186 verify_structure

```

```

188 cd $TESTDIR/.zfs
189 verify_dir snapshot
190 cd $TESTDIR/.zfs/snapshot
191 verify_dir snap_a
192 verify_dir snap_b

194 cd snap_a
195 verify_dir ../snap_a
196 verify_dir ../snap_b

198 cd ..
199 verify_dir snap_a
200 verify_dir snap_b

202 log_pass "Directory structure of snapshots reflects filesystem structure."

```

new/usr/src/test/zfs-tests/tests/functional/snapused/Makefile

1

968 Fri Nov 22 15:22:10 2013

new/usr/src/test/zfs-tests/tests/functional/snapused/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
```

```
12 #
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/snapused
```

```
21 PROGS = cleanup \
22         setup \
23         snapused_001_pos \
24         snapused_002_pos \
25         snapused_003_pos \
26         snapused_004_pos \
27         snapused_005_pos
```

```
29 FILES = snapused.kshlib
```

```
31 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
32 $(CMDS) := FILEMODE = 0555
```

```
34 all lint clean clobber:
```

```
36 install: $(CMDS)
```

```
38 $(CMDS): $(TESTDIR)
```

```
40 $(TESTDIR):
41     $(INS.dir)
```

```
43 $(TESTDIR)/%: %.ksh
44     $(INS.rename)
```

```
46 $(TESTDIR)/%: %
47     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/snapused/cleanup.ksh

1

1031 Fri Nov 22 15:22:10 2013

new/usr/src/test/zfs-tests/tests/functional/snapused/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/snapused/setup.ksh

1

1054 Fri Nov 22 15:22:10 2013

new/usr/src/test/zfs-tests/tests/functional/snapused/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_setup $DISK
```

5009 Fri Nov 22 15:22:11 2013

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused.kshlib

4206 history_003_pos relies on exact size of history log and entries

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```

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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 export USEDTTEST=$TESTPOOL/$TESTFS/usedtest-snapused
34 #
35 function _check_used # dataset
36 {
37     typeset dataset=$1
38 #
39     if [[ "$(get_prop type $dataset)" == "snapshot" ]]; then
40         return
41     fi
42 #
43     used=$(get_prop used $dataset)
44     usedbychildren=$(get_prop usedbychildren $dataset)
45     usedbydataset=$(get_prop usedbydataset $dataset)
46     usedbyreservation=$(get_prop usedbyreservation $dataset)
47     usedbysnapshots=$(get_prop usedbysnapshots $dataset)
48     ((used_sum = usedbychildren + usedbydataset + \
49         usedbyreservation + usedbysnapshots))
50     if ((used != used_sum)); then
51         log_fail "$dataset: used($used) is not the sum($used_sum) of use
52     fi
53 }

```

```

55 function check_used # dataset
56 {
57     typeset dataset=$1
58     for child in $(ZFS list -rH -t filesystem,volume -o name $dataset)
59     do
60         _check_used $child
61     done
62 }
63 #
64 function check_usedbychildren # dataset
65 {
66     typeset dataset=$1
67     typeset -i usedbychildren_sum=0
68     typeset -i parent_usedbychildren=0
69     for child in $(ZFS list -rH -t filesystem,volume -o name $dataset)
70     do
71         if [[ "$(get_prop type $child)" == "snapshot" ]]; then
72             continue
73         fi
74 # parent
75         if [[ "$child" == "$dataset" ]]; then
76             parent_usedbychildren=$(get_prop usedbychildren $child)
77         else #child
78             reservation=$(get_prop reservation $child)
79             used=$(get_prop used $child)
80             if ((reservation > used)); then
81                 ((usedbychildren_sum += reservation))
82             else
83                 ((usedbychildren_sum += used))
84             fi
85         fi
86     done
87 #
88     if ((parent_usedbychildren != usedbychildren_sum)); then
89         log_fail "$dataset: usedbychildren($parent_usedbychildren) is no
90     fi
91 }
92 #
93 #
94 function _check_usedbydataset # dataset
95 {
96     typeset dataset=$1
97     if [[ "$(get_prop type $dataset)" == "snapshot" ]]; then
98         return
99     fi
100 #
101     usedbydataset=$(get_prop usedbydataset $dataset)
102     referenced=$(get_prop referenced $dataset)
103 #
104     is_cloned=$(get_prop is:cloned $dataset)
105 #
106     if [[ "$is_cloned" == "yes" ]]; then
107         if ((usedbydataset > referenced)); then
108             log_fail "$dataset(cloned): usedbydataset($usedbydataset
109         fi
110     else
111         #
112         # if non-clones, should usedbydataset == referenced
113         #
114         if ((usedbydataset != referenced)); then
115             log_fail "$dataset: usedbydataset($usedbydataset) is not
116         fi
117     fi
118 }
119 #
120 function check_usedbydataset # dataset

```

```
121 {
122     typeset dataset=$1
123     for child in $($ZFS list -rH -t filesystem,volume -o name $dataset)
124     do
125         _check_usedbydataset $child
126     done
127 }

129 function _check_usedbyreservation # dataset
130 {
131     typeset dataset=$1
132     if [[ "$(get_prop type $dataset)" == "snapshot" ]]; then
133         return
134     fi

136     usedbyreservation=$(get_prop usedbyreservation $dataset)
137     referenced=$(get_prop referenced $dataset)
138     reservation=$(get_prop reservation $dataset)
139     ((diff_ref = reservation - referenced))
140     if ((usedbyreservation > reservation || \
141         usedbyreservation < diff_ref)); then
142         log_fail "$dataset: usedbyreservation($usedbyreservation)
143     fi
144 }

146 function check_usedbyreservation # dataset
147 {
148     typeset dataset=$1
149     for child in $($ZFS list -rH -t filesystem,volume -o name $dataset)
150     do
151         _check_usedbyreservation $child
152     done
153 }

155 function check_usedbysnapshots # dataset
156 {
157     typeset dataset=$1
158     typeset -i usedbysnapshots_sum=0
159     typeset -i parent_usedbysnapshots=0
160     for child in $($ZFS list -rH -t filesystem,volume,snapshot -o name $data
161     do
162         # parent
163         if [[ "$child" == "$dataset" ]]; then
164             parent_usedbysnapshots=$(get_prop usedbysnapshots $child)
165             continue
166         fi

168         if [[ "$(get_prop type $child)" != "snapshot" ]]; then
169             continue
170         fi

172         if [[ "$child" != "$dataset@"* ]]; then
173             continue
174         fi

176         # snapshot
177         used=$(get_prop used $child)
178         ((usedbysnapshots_sum += used))
179     done

181     if ((parent_usedbysnapshots < usedbysnapshots_sum)); then
182         log_fail "$dataset: usedbysnapshots($parent_usedbysnapshots) is
183             "the sum($usedbysnapshots_sum) of used of snapsh
184     fi
185 }
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_001_pos.ksh

1

```
*****
2176 Fri Nov 22 15:22:11 2013
new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 # $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/snapused/snapused.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify used is correct.
38 #
39 # STRATEGY:
40 #     1. Create a filesystem.
41 #     2. Set refreservation of the filesystem.
42 #     3. Make file in the filesystem.
43 #     4. Create sub filesystem and make file in it.
44 #     5. Create volume under it.
45 #     6. Snapshot it.
46 #     7. Check used=usedbychildren+usedbydataset+
47 #         usedbyrefreservation+usedbysnapshots.
48 #
49 #
50 verify_runnable "both"
51 #
52 function cleanup
53 {
54     log_must $ZFS destroy -rR $USEDTEST
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_001_pos.ksh

2

```
55 }
57 log_assert "Verify used is correct."
58 log_onexit cleanup
59 #
60 log_must $ZFS create $USEDTEST
61 check_used $USEDTEST
62 #
63 typeset -i i=0
64 typeset -i r_size=0
65 mntpnt=$(get_prop mountpoint $USEDTEST)
66 while ((i < 5)); do
67     ((r_size=(i+1)*16))
68 #
69     #usedbyrefreservation
70     log_must $ZFS set refreservation="$r_size"M $USEDTEST
71 #
72     #usedbydataset
73     log_must $MKFILE 16M $mntpnt/file$i
74 #
75     #usedbychildren
76     log_must $ZFS create $USEDTEST/fs$i
77     log_must $MKFILE 16M $mntpnt/fs$i/file$i
78 #
79     if is_global_zone; then
80         log_must $ZFS create -V 16M $USEDTEST/vol$i
81     fi
82 #
83     #usedbysnapshots
84     log_must $ZFS snapshot -r $USEDTEST@snap$i
85 #
86     check_used $USEDTEST
87 #
88     ((i = i + 1))
89 done
91 log_pass "Verify used is correct."
```


new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_002_pos.ksh 1

```
*****
2033 Fri Nov 22 15:22:11 2013
new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapused/snapused.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify usedbychildren is correct.
38 #
39 # STRATEGY:
40 #     1. Create a filesystem.
41 #     2. Create sub filesystem and make file in it.
42 #     3. Set reservation of the sub filesystem.
43 #     4. Create volume under it.
44 #     5. Snapshot it.
45 #     6. Check usedbychildren is correct.
46 #
47 #
48 verify_runnable "both"
49 #
50 function cleanup
51 {
52     log_must $ZFS destroy -rR $USEDTEST
53 }
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_002_pos.ksh 2

```
55 log_assert "Verify usedbychildren is correct."
56 log_onexit cleanup
57 #
58 log_must $ZFS create $USEDTEST
59 check_usedbychildren $USEDTEST
60 #
61 typeset -i i=0
62 typeset -i r_size=0
63 mntpnt=$(get_prop mountpoint $USEDTEST)
64 while ((i < 5)); do
65     ((r_size=(i+1)*16))
66 #
67     log_must $ZFS create $USEDTEST/fs$i
68     log_must $ZFS set reservation="$r_size"M $USEDTEST/fs$i
69     log_must $MKFILE 48M $mntpnt/fs$i/file$i
70 #
71     if is_global_zone; then
72         log_must $ZFS create -V 32M $USEDTEST/vol$i
73     fi
74 #
75     log_must $ZFS snapshot -r $USEDTEST@snap$i
76 #
77     check_usedbychildren $USEDTEST
78 #
79     ((i = i + 1))
80 done
81 #
82 log_pass "Verify usedbychildren is correct."
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_003_pos.ksh

1

```
*****
2123 Fri Nov 22 15:22:12 2013
new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapused/snapused.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify usedbydataset is correct.
38 #
39 # STRATEGY:
40 #     1. Create a filesystem.
41 #     2. Make file in the filesystem.
42 #     3. Snapshot it.
43 #     4. Clone it and make file in the cloned filesystem.
44 #     5. Check usedbydataset is correct.
45 #
46 #
47 verify_runnable "both"
48 #
49 function cleanup
50 {
51     log_must $ZFS destroy -rR $USEDTEST
52 }
53 #
54 log_assert "Verify usedbydataset is correct."
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_003_pos.ksh

2

```
55 log_onexit cleanup
56 #
57 log_must $ZFS create $USEDTEST
58 check_usedbydataset $USEDTEST
59 #
60 typeset -i i=0
61 typeset -i r_size=0
62 mntpnt=$(get_prop mountpoint $USEDTEST)
63 while ((i < 5)); do
64     ((r_size=(i+1)*16))
65 #
66     log_must $MKFILE 16M $mntpnt/file$i
67     log_must $MKFILE "$r_size"M $mntpnt/file_var$i
68     log_must $ZFS snapshot -r $USEDTEST@snap$i
69 #
70     log_must $ZFS clone $USEDTEST@snap$i $USEDTEST/cln$i
71     log_must $ZFS set is:cloned=yes $USEDTEST/cln$i
72 #
73     mntpnt_cln=$(get_prop mountpoint $USEDTEST/cln$i)
74     log_must $MKFILE 16M $mntpnt_cln/file_cln$i
75     log_must $MKFILE "$r_size"M $mntpnt_cln/file_cln_var$i
76 #
77     check_usedbydataset $USEDTEST
78 #
79     ((i = i + 1))
80 done
81 #
82 log_pass "Verify usedbydataset is correct."
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_004_pos.ksh

1

```
*****
2559 Fri Nov 22 15:22:12 2013
new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapused/snapused.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify usedbyreservation is correct.
38 #
39 # STRATEGY:
40 #     1. Create a filesystem.
41 #     2. Set reservation of the filesystem.
42 #     3. Make file in the filesystem.
43 #     4. Create sub filesystem and make file in it.
44 #     5. Set reservation of the sub filesystem.
45 #     6. Create volume under it.
46 #     7. Snapshot it.
47 #     8. Clone it and set reservation of the cloned filesystem.
48 #     9. Makefile the cloned filesystem.
49 #     10. Check usedbyreservation is correct.
50 #
51 #
52 verify_runnable "both"
53 #
54 function cleanup
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_004_pos.ksh

2

```
55 {
56     log_must $ZFS destroy -r $USEDTEST
57 }
58 #
59 log_assert "Verify usedbyreservation is correct."
60 log_onexit cleanup
61 #
62 log_must $ZFS create $USEDTEST
63 check_usedbyreservation $USEDTEST
64 #
65 typeset -i i=0
66 typeset -i r_size=0
67 mntpnt=$(get_prop mountpoint $USEDTEST)
68 while ((i < 5)); do
69     ((r_size=(i+1)*16))
70     log_must $ZFS set reservation="$r_size"M $USEDTEST
71 #
72     log_must $MKFILE 16M $mntpnt/file$i
73 #
74     log_must $ZFS create $USEDTEST/fs$i
75     log_must $ZFS set reservation="$r_size"M $USEDTEST/fs$i
76     log_must $MKFILE 16M $mntpnt/fs$i/file$i
77 #
78     if is_global_zone; then
79         log_must $ZFS create -V 16M $USEDTEST/vol$i
80     fi
81 #
82     log_must $ZFS snapshot -r $USEDTEST@snap$i
83 #
84     log_must $ZFS clone $USEDTEST@snap$i $USEDTEST/cln$i
85 #
86     mntpnt_cln=$(get_prop mountpoint $USEDTEST/cln$i)
87     log_must $ZFS set reservation="$r_size"M $USEDTEST/cln$i
88     log_must $MKFILE 16M $mntpnt_cln/file_cln$i
89 #
90     check_usedbyreservation $USEDTEST
91 #
92     ((i = i + 1))
93 done
94 #
95 log_pass "Verify usedbyreservation is correct."
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_005_pos.ksh 1

```
*****
1786 Fri Nov 22 15:22:12 2013
new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/snapused/snapused.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify usedbysnapshots is correct.
38 #
39 # STRATEGY:
40 #     1. Create a filesystem.
41 #     2. Make file in the filesystem.
42 #     3. Snapshot it.
43 #     4. Check check_usedbysnapshots is correct.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     log_must $ZFS destroy -rR $USEDTEST
51 }
52 #
53 log_assert "Verify usedbysnapshots is correct."
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/snapused/snapused_005_pos.ksh 2

```
56 log_must $ZFS create $USEDTEST
57 check_usedbysnapshots $USEDTEST
58 #
59 typeset -i i=0
60 typeset -i r_size=0
61 mntpt=$(get_prop mountpoint $USEDTEST)
62 while ((i < 5)); do
63     ((r_size=(i+1)*16))
64 #
65     log_must $MKFILE "$r_size"M $mntpt/file$i
66 #
67     log_must $ZFS snapshot $USEDTEST@snap$i
68     check_usedbysnapshots $USEDTEST
69 #
70     ((i = i + 1))
71 done
72 #
73 log_pass "Verify usedbysnapshots is correct."
```

new/usr/src/test/zfs-tests/tests/functional/sparse/Makefile

1

879 Fri Nov 22 15:22:13 2013

new/usr/src/test/zfs-tests/tests/functional/sparse/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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```

```
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/sparse
```

```
21 PROGS = cleanup \
22         setup \
23         sparse_001_pos
```

```
25 FILES = sparse.cfg
```

```
27 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
28 $(CMDS) := FILEMODE = 0555
```

```
30 all lint clean clobber:
```

```
32 install: $(CMDS)
```

```
34 $(CMDS): $(TESTDIR)
```

```
36 $(TESTDIR):
37     $(INS.dir)
```

```
39 $(TESTDIR)/%: %.ksh
40     $(INS.rename)
```

```
42 $(TESTDIR)/%: %
43     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/sparse/cleanup.ksh

1

1031 Fri Nov 22 15:22:13 2013

new/usr/src/test/zfs-tests/tests/functional/sparse/cleanup.ksh

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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/sparse/setup.ksh

1

1054 Fri Nov 22 15:22:13 2013

new/usr/src/test/zfs-tests/tests/functional/sparse/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 disk=${DISKS%% *}
35 #
36 default_setup $disk
```

new/usr/src/test/zfs-tests/tests/functional/sparse/sparse.cfg

1

1268 Fri Nov 22 15:22:13 2013

new/usr/src/test/zfs-tests/tests/functional/sparse/sparse.cfg

4206 history_003_pos relies on exact size of history log and entries

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29 #
30 #
31 export TESTFILE=testfile.sparse
32 export HOLES_FILESIZE=${HOLES_FILESIZE-"67108864"} # 64 Mb
33 export HOLES_BLKSIZE=${HOLES_BLKSIZE-"512"}
34 export HOLES_SEED=${HOLES_SEED-""}
35 export HOLES_FILEOFFSET=${HOLES_FILEOFFSET-""}
36 export HOLES_COUNT=${HOLES_COUNT-"16384"} # FILESIZE/BLKSIZE/8
37 export STF_TIMEOUT=3600
```


new/usr/src/test/zfs-tests/tests/functional/sparse/sparse_001_pos.ksh 1

```
*****
2171 Fri Nov 22 15:22:14 2013
new/usr/src/test/zfs-tests/tests/functional/sparse/sparse_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/sparse/sparse.cfg
34 #
35 #
36 # DESCRIPTION:
37 # Holes in ZFS files work correctly.
38 #
39 # STRATEGY:
40 # 1. Open file
41 # 2. Write random blocks in random places
42 # 3. Read each block back to check for correctness.
43 # 4. Repeat steps 2 and 3 lots of times
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     [[ -e $TESTDIR ]] && log_must $RM -rf $TESTDIR/*
51 }
52 #
53 log_assert "Ensure random blocks are read back correctly"
```

new/usr/src/test/zfs-tests/tests/functional/sparse/sparse_001_pos.ksh 2

```
55 options=""
56 options_display="default options"
57 #
58 log_onexit cleanup
59 #
60 [[ -n "$HOLES_FILESIZE" ]] && options="$options -f $HOLES_FILESIZE "
61 #
62 [[ -n "$HOLES_BLKSIZE" ]] && options="$options -b $HOLES_BLKSIZE "
63 #
64 [[ -n "$HOLES_COUNT" ]] && options="$options -c $HOLES_COUNT "
65 #
66 [[ -n "$HOLES_SEED" ]] && options="$options -s $HOLES_SEED "
67 #
68 [[ -n "$HOLES_FILEOFFSET" ]] && options="$options -o $HOLES_FILEOFFSET "
69 #
70 options="$options -r "
71 #
72 [[ -n "$options" ]] && options_display=$options
73 #
74 log_note "Invoking $FILE_TRUNC with: $options_display"
75 log_must $FILE_TRUNC $options $TESTDIR/$TESTFILE
76 #
77 typeset dir=$(get_device_dir $DISKS)
78 verify_filesys "$TESTPOOL" "$TESTPOOL/$TESTFS" "$dir"
79 #
80 log_pass "Random blocks have been read back correctly."
```

```
*****
```

```
1275 Fri Nov 22 15:22:14 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/threadsappend/Makefile
```

```
4206 history_003_pos relies on exact size of history log and entries
```

```
4207 history_008_pos depends on obsolete internal history log message
```

```
4208 Typo in zfs_main.c: "posxiuser"
```

```
4209 Populate zfstest with the remainder of the STF tests
```

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/threadsappend
```

```
21 PROG = threadsappend
```

```
23 SCRIPTS = cleanup \
```

```
24     setup \
```

```
25     threadsappend_001_pos
```

```
27 include $(SRC)/cmd/Makefile.cmd
```

```
28 include $(SRC)/test/Makefile.com
```

```
30 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
32 OBJS = $(PROG:%=%.o)
```

```
33 SRCS = $(OBJS:%.o=%.c)
```

```
35 CMDS = $(PROG:%=$(TESTDIR)/%) $(SCRIPTS:%=$(TESTDIR)/%)
```

```
36 $(CMDS) := FILEMODE = 0555
```

```
38 CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64
```

```
40 all: $(PROG)
```

```
42 $(PROG): $(OBJS)
```

```
43     $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
```

```
44     $(POST_PROCESS)
```

```
46 %.o: ../%.c
```

```
47     $(COMPILE.c) $<
```

```
49 install: all $(CMDS)
```

```
51 lint: lint_SRCS
```

```
53 clobber: clean
```

```
54     -$(RM) $(PROG)
```

```
56 clean:
```

```
57     -$(RM) $(OBJS)
```

```
59 $(CMDS): $(TESTDIR) $(PROG)
```

```
61 $(TESTDIR):
```

```
62     $(INS.dir)
```

```
64 $(TESTDIR)/%: %
```

```
65     $(INS.file)
```

```
67 $(TESTDIR)/%: %.ksh
```

```
68     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/threadsappend/cleanup.ksh

1

1031 Fri Nov 22 15:22:14 2013

new/usr/src/test/zfs-tests/tests/functional/threadsappend/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/threadsappend/setup.ksh

1

1056 Fri Nov 22 15:22:15 2013

new/usr/src/test/zfs-tests/tests/functional/threadsappend/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 DISK=${DISKS%% *}
35 #
36 default_setup ${DISK}
```

```

*****
3339 Fri Nov 22 15:22:15 2013
new/usr/src/test/zfs-tests/tests/functional/threadsappend/threadsappend.c
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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26
27 /*
28  * Copyright (c) 2013 by Delphix. All rights reserved.
29 */
30
31 #include <sys/types.h>
32 #include <sys/stat.h>
33 #include <fcntl.h>
34 #include <thread.h>
35 #include <string.h>
36 #include <stdio.h>
37 #include <unistd.h>
38 #include <stdlib.h>
39 #include <errno.h>
40
41 /*
42  * The size of the output file, "go.out", should be 80*8192*2 = 1310720
43  *
44  * $ cd /tmp; go; ls -l go.out
45  * done.
46  * -rwxr-xr-x  1 jdm  staff   1310720 Apr 13 19:45 go.out
47  * $ cd /zfs; go; ls -l go.out
48  * done.
49  * -rwxr-xr-x  1 jdm  staff   663552 Apr 13 19:45 go.out
50  *
51  * The file on zfs is short as it does not appear that zfs is making the
52  * implicit seek to EOF and the actual write atomic. From the SUSv3
53  * interface spec, behavior is undefined if concurrent writes are performed
54  * from multi-processes to a single file. So I don't know if this is a

```

```

55  * standards violation, but I cannot find any such disclaimers in our
56  * man pages. This issue came up at a customer site in another context, and
57  * the suggestion was to open the file with O_APPEND, but that wouldn't
58  * help with zfs(see 4977529). Also see bug# 5031301.
59  */
60
61 static int outfd = 0;
62
63 static void *
64 go(void *data)
65 {
66     int i = 0, n = *(int *)data;
67     char buf[8192] = {0};
68     (void) memset(buf, n, sizeof (buf));
69
70     for (i = 0; i < 80; i++) {
71         (void) write(outfd, buf, sizeof (buf));
72     }
73     return (NULL);
74 }
75
76 static void
77 usage()
78 {
79     (void) fprintf(stderr,
80         "usage: zfs_threadsappend <file name>\n");
81     exit(1);
82 }
83
84 int
85 main(int argc, char **argv)
86 {
87     int    ret = 0;
88     long  ncpus = 0;
89     int    i;
90
91     if (argc != 2) {
92         usage();
93     }
94
95     ncpus = sysconf(_SC_NPROCESSORS_ONLN);
96     if (ncpus < 0) {
97         (void) fprintf(stderr,
98             "Invalid return from sysconf(_SC_NPROCESSORS_ONLN)"
99             " : errno(decimal)=%d\n", errno);
100        exit(1);
101    }
102    if (ncpus < 2) {
103        (void) fprintf(stderr,
104            "Must execute this binary on a multi-processor system\n");
105        exit(1);
106    }
107
108    outfd = open(argv[optind++], O_RDWR|O_CREAT|O_APPEND|O_TRUNC, 0777);
109    if (outfd == -1) {
110        (void) fprintf(stderr,
111            "zfs_threadsappend: "
112            "open(%s, O_RDWR|O_CREAT|O_APPEND|O_TRUNC, 0777)"
113            " failed\n", argv[optind]);
114        perror("open");
115        exit(1);
116    }
117
118    for (i = 0; i < 2; i++) {
119        ret = thr_create(NULL, 0, go, (void *)&i, 0, NULL);
120        if (ret != 0) {

```

```
121         (void) fprintf(stderr,
122             "zfs_threadsappend: thr_create(##d) "
123             "failed error=%d\n", i+1, ret);
124         exit(1);
125     }
126 }
127
128 while (thr_join(0, NULL, NULL) == 0)
129     continue;
130
131 return (0);
132 }
```

new/usr/src/test/zfs-tests/tests/functional/threadsappend/threadsappend_001_pos. 1

```
*****
2412 Fri Nov 22 15:22:15 2013
new/usr/src/test/zfs-tests/tests/functional/threadsappend/threadsappend_001_pos.
ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #
37 # Ensure multiple threads performing write appends to the same ZFS
38 # file succeed.
39 #
40 # STRATEGY:
41 # 1) Verify this is a multi-processor system
42 # 2) Create multiple threads with each appending to a file
43 # 3) Verify that the resulting file is the expected size
44 #
45 #
46 verify_runnable "both"
47 #
48 log_assert "Ensure multiple threads performing write appends to the same" \
49 "ZFS file succeed"
50 #
51 #
52 # $FILE_SIZE is hardcoded into threadsappend.c and is the expected
53 # size of the file after all the threads have appended to it
```

new/usr/src/test/zfs-tests/tests/functional/threadsappend/threadsappend_001_pos. 2

```
54 #
55 typeset -i FILE_SIZE=1310720
56 THREADSAPPEND="$STF_SUITE/tests/functional/threadsappend/threadsappend"
57 TESTFILE='testfile-threadsappend'
58 #
59 #
60 # This test should be run on a multi-processor system because otherwise the FS
61 # will not be concurrently used by the threads
62 #
63 NCPUS=`$PSRINFO | $WC -l`
64 if [[ -z $NCPUS || $NCPUS -le 1 ]]; then
65     log_fail "This test should be executed on a multi-processor system."
66 fi
67 #
68 #
69 # zfs_threadsappend tries to append to $TESTFILE using threads
70 # so that the resulting file is $FILE_SIZE bytes in size
71 #
72 log_must $THREADSAPPEND ${TESTDIR}/${TESTFILE}
73 #
74 #
75 # Check the size of the resulting file
76 #
77 SIZE=`$LS -l ${TESTDIR}/${TESTFILE} | $AWK '{print $5}'`
78 if [[ $SIZE -ne $FILE_SIZE ]]; then
79     log_fail "'The length of ${TESTDIR}/${TESTFILE}' doesnt equal 1310720."
80 fi
81 #
82 log_pass "Multiple thread appends succeeded. File size as expected"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/Makefile

1

1232 Fri Nov 22 15:22:16 2013

new/usr/src/test/zfs-tests/tests/functional/userquota/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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9 # http://www.illumos.org/license/CDDL.
10 #
```

```
12 #
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/userquota
```

```
21 PROGS = cleanup \
22         groupspace_001_pos \
23         groupspace_002_pos \
24         setup \
25         userquota_001_pos \
26         userquota_002_pos \
27         userquota_003_pos \
28         userquota_004_pos \
29         userquota_005_neg \
30         userquota_006_pos \
31         userquota_007_pos \
32         userquota_008_pos \
33         userquota_009_pos \
34         userquota_010_pos \
35         userquota_011_pos \
36         userquota_012_neg \
37         userspace_001_pos \
38         userspace_002_pos
```

```
40 FILES = userquota.cfg \
41         userquota_common.kshlib
```

```
43 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
44 $(CMDS) := FILEMODE = 0555
```

```
46 all lint clean clobber:
```

```
48 install: $(CMDS)
```

```
50 $(CMDS): $(TESTDIR)
```

```
52 $(TESTDIR):
53     $(INS.dir)
```

new/usr/src/test/zfs-tests/tests/functional/userquota/Makefile

2

```
55 $(TESTDIR)/%: %.ksh
56     $(INS.rename)
```

```
58 $(TESTDIR)/%: %
59     $(INS.file)
```


new/usr/src/test/zfs-tests/tests/functional/userquota/cleanup.ksh

1

1214 Fri Nov 22 15:22:16 2013

new/usr/src/test/zfs-tests/tests/functional/userquota/cleanup.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 log_must cleanup_quota
36 log_must clean_user_group
37 #
38 typeset mntp=$(get_prop mountpoint $QFS)
39 log_must $CHMOD 0755 $mntp
40 #
41 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/userquota/groupspace_001_pos.ksh 1

```
*****
2251 Fri Nov 22 15:22:16 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/groupspace_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the zfs groupspace with all parameters
38 #
39 #
40 # STRATEGY:
41 #     1. set zfs groupquota to a fs
42 #     2. write some data to the fs with specified user and group
43 #     3. use zfs groupspace with all possible parameters to check the result
44 #
45 #
46 function cleanup
47 {
48     if datasetexists $snap_fs; then
49         log_must $ZFS destroy $snap_fs
50     fi
51
52     log_must cleanup_quota
53 }
```

new/usr/src/test/zfs-tests/tests/functional/userquota/groupspace_001_pos.ksh 2

```
55 log_onexit cleanup
57 log_assert "Check the zfs groupspace with all possible parameters"
58 #
59 set -A params -- "-n" "-H" "-p" "-o type,name,used,quota" \
60     "-o name,used,quota" "-o used,quota" "-o used" "-o quota" "-s type" \
61     "-s name" "-s used" "-s quota" "-S type" "-S name" "-S used" "-S quota" \
62     "-t posixuser" "-t posixgroup" "-t all" "-i" "-t smbuser" "-t smbgroup"
63 #
64 typeset snap_fs=$QFS@snap
65 #
66 log_must $ZFS set groupquota@$QGROUP=500m $QFS
67 mkmount_writable $QFS
68 log_must user_run $QUSER1 $MKFILE 50m $QFILE
69 #
70 $SYNC
71 #
72 log_must $ZFS snapshot $snap_fs
73 #
74 for param in "${params[@]}; do
75     log_must eval "$ZFS groupspace $param $QFS >/dev/null 2>&1"
76     log_must eval "$ZFS groupspace $param $snap_fs >/dev/null 2>&1"
77 done
78 #
79 log_pass "Check the zfs groupspace with all possible parameters"
```

```

*****
2176 Fri Nov 22 15:22:17 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/groupspace_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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*****

```

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the user used and groupspace size in zfs groupspace
38 #
39 #
40 # STRATEGY:
41 #     1. set zfs groupquota to a fs
42 #     2. write some data to the fs with specified user and size
43 #     3. use zfs groupspace to check the used size and quota size
44 #
45 #
46 function cleanup
47 {
48     if datasetexists $snapfs; then
49         log_must $ZFS destroy $snapfs
50     fi
51     log_must cleanup_quota
52 }
53 #
54 log_onexit cleanup

```

```

55 log_assert "Check the zfs groupspace used and quota"
56 #
57 #
58 log_must $ZFS set groupquota@$QGROUP=500m $QFS
59 mkmount_writable $QFS
60 log_must user_run $QUSER1 $MKFILE 100m $QFILE
61 #
62 $SYNC
63 #
64 typeset snapfs=$QFS@snap
65 #
66 log_must $ZFS snapshot $snapfs
67 #
68 log_must eval "$ZFS groupspace $QFS >/dev/null 2>&1"
69 log_must eval "$ZFS groupspace $snapfs >/dev/null 2>&1"
70 #
71 for fs in "$QFS" "$snapfs"; do
72     log_note "check the quota size in zfs groupspace $fs"
73     log_must eval "$ZFS groupspace $fs | $GREP $QGROUP | $GREP 500M"
74 #
75     log_note "check the user used size in zfs groupspace $fs"
76     log_must eval "$ZFS groupspace $fs | $GREP $QGROUP | $GREP 100M"
77 done
78 #
79 log_pass "Check the zfs groupspace used and quota pass as expect"

```

new/usr/src/test/zfs-tests/tests/functional/userquota/setup.ksh

1

1264 Fri Nov 22 15:22:17 2013

new/usr/src/test/zfs-tests/tests/functional/userquota/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 verify_runnable "both"
36 #
37 log_must clean_user_group
38 #
39 log_must add_group $QGROUP
40 log_must add_user $QGROUP $QUSER1
41 log_must add_user $QGROUP $QUSER2
42 #
43 DISK=${DISKS%% *}
44 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota.cfg

1

1254 Fri Nov 22 15:22:18 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota.cfg
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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26 #
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28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export QUSER1=quser1
32 export QUSER2=quser2
33 #
34 export QGROUP=qgroup
35 export QGROUP1=qgroup1
36 export QGROUP2=qgroup2
37 #
38 export UQUOTA_SIZE=1000000
39 export GQUOTA_SIZE=4000000
40 #
41 export QFS=$TESTPOOL/$TESTFS
42 export QFILE=$TESTDIR/ql
43 export OFILE=$TESTDIR/of
44 #
45 export SNAP_QUOTA=100m
46 export TEST_QUOTA=88888
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_001_pos.ksh 1

```
*****
2114 Fri Nov 22 15:22:18 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
33 #
34 #
35 #
36 # DESCRIPTION:
37 #     Check the basic function of the userquota and groupquota
38 #
39 #
40 # STRATEGY:
41 #     1. Set userquota and overwrite the quota size
42 #     2. The write operation should fail with Disc quota exceeded
43 #     3. Set groupquota and overwrite the quota size
44 #     4. The write operation should fail with Disc quota exceeded
45 #
46 #
47 #
48 function cleanup
49 {
50     cleanup_quota
51 }
52 #
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_001_pos.ksh 2

```
55 log_assert "If write operation overwrite {user|group}quota size, it will fail"
56 #
57 mkmount_writable $QFS
58 log_note "Check the userquota@$QUSER1"
59 log_must $ZFS set userquota@$QUSER1=$UQUOTA_SIZE $QFS
60 log_must user_run $QUSER1 $MKFILE $UQUOTA_SIZE $QFILE
61 $SYNC
62 log_mustnot user_run $QUSER1 $MKFILE 1 $OFILE
63 cleanup_quota
64 #
65 log_note "Check the groupquota@$QGROUP"
66 log_must $ZFS set groupquota@$QGROUP=$GQUOTA_SIZE $QFS
67 mkmount_writable $QFS
68 log_must user_run $QUSER1 $MKFILE $GQUOTA_SIZE $QFILE
69 $SYNC
70 log_mustnot user_run $QUSER1 $MKFILE 1 $OFILE
71 #
72 cleanup_quota
73 #
74 log_pass "Write operation overwrite {user|group}quota size, it as expect"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_002_pos.ksh 1

```
*****
2466 Fri Nov 22 15:22:18 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     the userquota and groupquota can be set during zpool or zfs creation"
38 #
39 #
40 # STRATEGY:
41 #     1. Set userquota and groupquota via "zpool -O or zfs create -o"
42 #
43 #
44 verify_runnable "global"
45 #
46 function cleanup
47 {
48     if poolexists $TESTPOOL1; then
49         log_must $ZPOOL destroy $TESTPOOL1
50     fi
51 #
52     if [[ -f $pool_vdev ]]; then
53         $RM -f $pool_vdev
54     fi
55 }
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_002_pos.ksh 2

```
55 }
56 #
57 log_onexit cleanup
58 #
59 log_assert \
60     "the userquota and groupquota can be set during zpool,zfs creation"
61 #
62 typeset pool_vdev=/var/tmp/pool_dev.$$
63 #
64 log_must $MKFILE 500m $pool_vdev
65 #
66 if poolexists $TESTPOOL1; then
67     $ZPOOL destroy $TESTPOOL1
68 fi
69 #
70 log_must $ZPOOL create -O userquota@$QUSER1=$UQUOTA_SIZE \
71     -O groupquota@$QGROUP=$GQUOTA_SIZE $TESTPOOL1 $pool_vdev
72 #
73 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \
74     $TESTPOOL1 > /dev/null 2>&1"
75 #
76 log_must check_quota "userquota@$QUSER1" $TESTPOOL1 "$UQUOTA_SIZE"
77 log_must check_quota "groupquota@$QGROUP" $TESTPOOL1 "$GQUOTA_SIZE"
78 #
79 log_must $ZFS create -o userquota@$QUSER1=$UQUOTA_SIZE \
80     -o groupquota@$QGROUP=$GQUOTA_SIZE $TESTPOOL1/fs
81 #
82 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \
83     $TESTPOOL1 > /dev/null 2>&1"
84 #
85 log_must check_quota "userquota@$QUSER1" $TESTPOOL1/fs "$UQUOTA_SIZE"
86 log_must check_quota "groupquota@$QGROUP" $TESTPOOL1/fs "$GQUOTA_SIZE"
87 #
88 log_pass \
89     "the userquota and groupquota can be set during zpool,zfs creation"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_003_pos.ksh 1

```
*****
1818 Fri Nov 22 15:22:19 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the basic function of set/get userquota and groupquota on fs
38 #
39 #
40 # STRATEGY:
41 #     1. Set userquota on fs and check the zfs get
42 #     2. Set groupquota on fs and check the zfs get
43 #
44 #
45 function cleanup
46 {
47     cleanup_quota
48 }
49 #
50 log_onexit cleanup
51 #
52 log_assert "Check the basic function of set/get userquota and groupquota on fs"
53 #
54 log_note "Check the set|get userquota@$QUSER1 and groupquota@QGROUP"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_003_pos.ksh 2

```
55 log_must $ZFS set userquota@$QUSER1=$QUOTA_SIZE $QFS
56 log_must check_quota "userquota@$QUSER1" $QFS "$QUOTA_SIZE"
57 #
58 log_must $ZFS set groupquota@$QGROUP=$GQUOTA_SIZE $QFS
59 log_must check_quota "groupquota@$QGROUP" $QFS "$GQUOTA_SIZE"
60 #
61 log_pass "Check the basic function of set/get userquota on fs passed as expect"
```


new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_004_pos.ksh 1

```
*****
2242 Fri Nov 22 15:22:19 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the basic function user|group used
38 #
39 #
40 # STRATEGY:
41 #     1. Write some data to fs by normal user and check the user|group used
42 #
43 #
44 function cleanup
45 {
46     cleanup_quota
47 }
48 #
49 log_onexit cleanup
50 #
51 log_assert "Check the basic function of {user|group} used"
52 #
53 typeset user_used=$(get_value "userused@$QUSER1" $QFS)
54 typeset group_used=$(get_value "groupused@$QGROUP" $QFS)
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_004_pos.ksh 2

```
56 if [[ $user_used != 0 ]]; then
57     log_fail "FAIL: userused is $user_used, should be 0"
58 fi
59 if [[ $group_used != 0 ]]; then
60     log_fail "FAIL: groupused is $group_used, should be 0"
61 fi
62 #
63 mkmount_writable $QFS
64 log_must user_run $QUSER1 $MKFILE 100m $QFILE
65 $SYNC
66 #
67 user_used=$(get_value "userused@$QUSER1" $QFS)
68 group_used=$(get_value "groupused@$QGROUP" $QFS)
69 #
70 if [[ $user_used != "100M" ]]; then
71     log_note "user $QUSER1 used is $user_used"
72     log_fail "userused for user $QUSER1 expected to be 50.0M, not $user_used"
73 fi
74 #
75 if [[ $user_used != $group_used ]]; then
76     log_note "user $QUSER1 used is $user_used"
77     log_note "group $QGROUP used is $group_used"
78     log_fail "FAIL: userused should equal to groupused"
79 fi
80 #
81 log_pass "Check the basic function of {user|group}used pass as expect"
```

```

*****
2709 Fri Nov 22 15:22:19 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_005_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the invalid parameter of zfs set user|group quota
38 #
39 #
40 # STRATEGY:
41 #     1. check the invalid zfs set user|group quota to fs
42 #     1. check the valid zfs set user|group quota to snapshots
43 #
44 #
45 function cleanup
46 {
47     if datasetexists $snap_fs; then
48         log_must $ZFS destroy $snap_fs
49     fi
50
51     log_must cleanup_quota
52 }
53 #
54 log_onexit cleanup

```

```

56 log_assert "Check the invalid parameter of zfs set user|group quota"
57 typeset snap_fs=$QFS@snap

59 log_must $ZFS snapshot $snap_fs

61 set -A no_users "mms1234" "ss@#" "root-122"
62 for user in "${no_users[@]}; do
63     log_mustnot $ID $user
64     log_mustnot $ZFS set userquota@$user=100m $QFS
65 done

67 log_note "can set all numeric id even that id is not existed"
68 log_must $ZFS set userquota@12345678=100m $QFS
69 log_mustnot $ZFS set userquota@12345678=100m $snap_fs

71 set -A sizes "100mfsd" "m0.12m" "GGM" "-1234-m" "123m-m"

73 for size in "${sizes[@]}; do
74     log_note "can not set user quota with invalid size parameter"
75     log_mustnot $ZFS set userquota@root=$size $QFS
76 done

78 log_note "can not set user quota to snapshot $snap_fs"
79 log_mustnot $ZFS set userquota@root=100m $snap_fs

82 set -A no_groups "aidsf@dfs@" "123223-dsdfs#sdfs" "mss_#ss" "@@@"
83 for group in "${no_groups[@]}; do
84     log_mustnot eval "$GREP $group /etc/group"
85     log_mustnot $ZFS set groupquota@$group=100m $QFS
86 done

88 log_note "can not set group quota with invalid size parameter"
89 log_mustnot $ZFS set groupquota@root=100mfsd $QFS

91 log_note "can not set group quota to snapshot $snap_fs"
92 log_mustnot $ZFS set groupquota@root=100m $snap_fs

94 log_pass "Check the invalid parameter of zfs set user|group quota pas as expect"

```

```

*****
2216 Fri Nov 22 15:22:20 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the invalid parameter of zfs get user|group quota
38 #
39 #
40 # STRATEGY:
41 #     1. check the invalid zfs get user|group quota to fs
42 #     2. check the valid zfs get user|group quota to snapshots
43 #
44 #
45 function cleanup
46 {
47     if datasetexists $snap_fs; then
48         log_must $ZFS destroy $snap_fs
49     fi
50 }
51     log_must cleanup_quota
52 }
53 #
54 log_onexit cleanup

```

```

56 log_assert "Check the invalid parameter of zfs get user|group quota"
57 typeset snap_fs=$QFS@snap

59 log_must $ZFS snapshot $snap_fs

61 set -A no_users "mms1234" "ss@" "root-122" "1234"
62 for user in "${no_users[@]"; do
63     log_mustnot eval "$ID $user >/dev/null 2>&1"
64     log_must eval "$ZFS get userquota@$user $QFS >/dev/null 2>&1"
65     log_must eval "$ZFS get userquota@$user $snap_fs >/dev/null 2>&1"
66 done

68 set -A no_groups "aidsf@dfsd@" "123223-dsfd#sdfsd" "mss_#ss" "1234"
69 for group in "${no_groups[@]"; do
70     log_mustnot eval "$GROUPDEL $group > /dev/null 2>&1"
71     log_must eval "$ZFS get groupquota@$group $QFS >/dev/null 2>&1"
72     log_must eval "$ZFS get groupquota@$group $snap_fs >/dev/null 2>&1"
73 done

75 log_pass "Check the invalid parameter of zfs get user|group quota pass as expect

```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_007_pos.ksh 1

```
*****
2249 Fri Nov 22 15:22:20 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 #     userquota/groupquota can be set beyond the fs quota
39 #     userquota/groupquota can be set at a smaller size than its current usage.
40 #
41 # STRATEGY:
42 #     1. set quota to a fs and set a larger size of userquota and groupquota
43 #     2. write some data to the fs and set a smaller userquota and groupquota
44 #
45 #
46 function cleanup
47 {
48     log_must cleanup_quota
49     log_must $ZFS set quota=none $QFS
50 }
51 #
52 log_onexit cleanup
53 #
54 log_assert "Check set user|group quota to larger than the quota size of a fs"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_007_pos.ksh 2

```
56 log_must $ZFS set quota=200m $QFS
57 log_must $ZFS set userquota@$QUSER1=500m $QFS
58 log_must $ZFS set groupquota@$QGROUP=600m $QFS
59 #
60 log_must $ZFS get userquota@$QUSER1 $QFS
61 log_must $ZFS get groupquota@$QGROUP $QFS
62 #
63 log_note "write some data to the $QFS"
64 mkmount_writable $QFS
65 log_must user_run $QUSER1 $MKFILE 100m $QFILE
66 $SYNC
67 #
68 log_note "set user|group quota at a smaller size than it current usage"
69 log_must $ZFS set userquota@$QUSER1=90m $QFS
70 log_must $ZFS set groupquota@$QGROUP=90m $QFS
71 #
72 log_must $ZFS get userquota@$QUSER1 $QFS
73 log_must $ZFS get groupquota@$QGROUP $QFS
74 #
75 log_pass "set user|group quota to larger than quota size of a fs pass as expect"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_008_pos.ksh 1

```
*****
1643 Fri Nov 22 15:22:20 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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```

```
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2 #
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #
38 #     zfs get all <fs> does not print out userquota/groupquota
39 #
40 # STRATEGY:
41 #     1. set userquota and groupquota to a fs
42 #     2. check zfs get all fs
43 #
44 #
45 function cleanup
46 {
47     log_must cleanup_quota
48 }
49 #
50 log_onexit cleanup
51 #
52 log_assert "Check zfs get all will not print out user|group quota"
53 #
54 log_must $ZFS set userquota@$QUSER1=50m $QFS
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_008_pos.ksh 2

```
55 log_must $ZFS set groupquota@$QGROU=100m $QFS
57 log_mustnot $ZFS get all $QFS | $GREP userquota
58 log_mustnot $ZFS get all $QFS | $GREP groupquota
59 #
60 log_pass "zfs get all will not print out user|group quota"
```

```

*****
2981 Fri Nov 22 15:22:21 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #   Check user|group quota to snapshot that:
38 #   1) can not set user|group quota to snapshot directly
39 #   2) snapshot can inherit the parent fs's user|groupquota
40 #   3) the user|group quota will not change even the parent fs's quota chang
41 #
42 #
43 # STRATEGY:
44 #   1. create a snapshot of a fs
45 #   2. set the user|group quota to snapshot and expect fail
46 #   3. set user|group quota to fs and check the snapshot
47 #   4. re-set user|group quota to fs and check the snapshot's value
48 #
49 #
50 function cleanup
51 {
52     if datasetexists $snap_fs; then
53         log_must $ZFS destroy $snap_fs
54     fi

```

```

56     log_must cleanup_quota
57 }
58 #
59 log_onexit cleanup
60 #
61 log_assert "Check the snapshot's user|group quota"
62 typeset snap_fs=$QFS@snap
63 #
64 #
65 log_must $ZFS set userquota@$QUSER1=$UQUOTA_SIZE $QFS
66 log_must check_quota "userquota@$QUSER1" $QFS "$UQUOTA_SIZE"
67 #
68 log_must $ZFS set groupquota@$QGROUP=$GQUOTA_SIZE $QFS
69 log_must check_quota "groupquota@$QGROUP" $QFS "$GQUOTA_SIZE"
70 #
71 log_must $ZFS snapshot $snap_fs
72 #
73 log_note "check the snapshot $snap_fs user|group quota"
74 log_must check_quota "userquota@$QUSER1" $snap_fs "$UQUOTA_SIZE"
75 log_must check_quota "groupquota@$QGROUP" $snap_fs "$GQUOTA_SIZE"
76 #
77 log_note "set userquota and groupquota to $snap_fs which will fail"
78 log_mustnot $ZFS set userquota@$QUSER1=$SNAP_QUOTA $snap_fs
79 log_mustnot $ZFS set groupquota@$QGROUP=$SNAP_QUOTA $snap_fs
80 #
81 log_note "change the parent's userquota and groupquota"
82 log_must $ZFS set userquota@$QUSER1=$TEST_QUOTA $QFS
83 log_must $ZFS set groupquota@$QGROUP=$TEST_QUOTA $QFS
84 #
85 log_must check_quota "userquota@$QUSER1" $QFS $TEST_QUOTA
86 log_must check_quota "groupquota@$QGROUP" $QFS $TEST_QUOTA
87 #
88 log_note "check the snapshot $snap_fs userquota and groupquota"
89 log_must check_quota "userquota@$QUSER1" $snap_fs "$UQUOTA_SIZE"
90 log_must check_quota "groupquota@$QGROUP" $snap_fs "$GQUOTA_SIZE"
91 #
92 log_pass "Check the snapshot's user|group quota pass as expect"

```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_010_pos.ksh 1

```
*****
2274 Fri Nov 22 15:22:21 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_010_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
33 #
34 #
35 # DESCRIPTION:
36 #     Check userquota and groupquota be overwritten at same time
37 #
38 #
39 # STRATEGY:
40 #     1. Set userquota and groupquota to a fs
41 #     2. write to exceed the userquota size to check the result
42 #     3. write to exceed the groupquota size to check the result
43 #
44 #
45 function cleanup
46 {
47     cleanup_quota
48 }
49 #
50 log_onexit cleanup
51 #
52 log_assert "overwrite any of the {user|group}quota size, it will fail"
53 #
54 log_note "overwrite to $QFS to make it exceed userquota"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_010_pos.ksh 2

```
55 log_must $ZFS set userquota@$QUSER1=$UQUOTA_SIZE $QFS
56 log_must $ZFS set groupquota@$QGROUP=$GQUOTA_SIZE $QFS
57 #
58 mkmount_writable $QFS
59 log_must user_run $QUSER1 $MKFILE $UQUOTA_SIZE $QFILE
60 $SYNC
61 #
62 log_must eval "$ZFS get -p userused@$QUSER1 $QFS >/dev/null 2>&1"
63 log_must eval "$ZFS get -p groupused@$GROUPUSED $QFS >/dev/null 2>&1"
64 #
65 log_mustnot user_run $QUSER1 $MKFILE 1 $QFILE
66 #
67 log_must $RM -f $QFILE
68 #
69 log_note "overwrite to $QFS to make it exceed userquota"
70 log_mustnot user_run $QUSER1 $MKFILE $GQUOTA_SIZE $QFILE
71 #
72 log_must eval "$ZFS get -p userused@$QUSER1 $QFS >/dev/null 2>&1"
73 log_must eval "$ZFS get -p groupused@$GROUPUSED $QFS >/dev/null 2>&1"
74 #
75 log_pass "overwrite any of the {user|group}quota size, it fail as expect"
```

```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_011_pos.ksh 1
*****
4443 Fri Nov 22 15:22:21 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_011_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # the userquota and groupquota will not change during zfs actions, such as
38 # snapshot,clone,rename,upgrade,send,receive.
39 #
40 #
41 # STRATEGY:
42 # 1. Create a pool, and create fs with preset user,group quota
43 # 2. Check set user|group quota via zfs snapshot|clone|list -o
44 # 3. Check the user|group quota can not change during zfs rename|upgrade|p
45 # 4. Check the user|group quota can not change during zfs clone
46 # 5. Check the user|group quota can not change during zfs send/receive
47 #
48 #
49 function cleanup
50 {
51     for ds in $TESTPOOL/fs $TESTPOOL/fs-rename $TESTPOOL/fs-clone; do
52         if datasetexists $ds; then
53             log_must $ZFS destroy -rRf $ds
54         fi

```

```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_011_pos.ksh 2
55     done
56 }
57 #
58 log_onexit cleanup
59 #
60 log_assert \
61     "the userquota and groupquota can't change during zfs actions"
62 #
63 cleanup
64 #
65 log_must $ZFS create -o userquota@$QUSER1=$QUOTA_SIZE \
66     -o groupquota@$QGROUP=$GQUOTA_SIZE $TESTPOOL/fs
67 #
68 log_must $ZFS snapshot $TESTPOOL/fs@snap
69 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \
70     $TESTPOOL >/dev/null 2>&1"
71 #
72 log_must check_quota "userquota@$QUSER1" $TESTPOOL/fs@snap "$QUOTA_SIZE"
73 log_must check_quota "groupquota@$QGROUP" $TESTPOOL/fs@snap "$GQUOTA_SIZE"
74 #
75 #
76 log_note "clone fs gets its parent's userquota/groupquota initially"
77 log_must $ZFS clone -o userquota@$QUSER1=$QUOTA_SIZE \
78     -o groupquota@$QGROUP=$GQUOTA_SIZE \
79     $TESTPOOL/fs@snap $TESTPOOL/fs-clone
80 #
81 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \
82     $TESTPOOL >/dev/null 2>&1"
83 #
84 log_must check_quota "userquota@$QUSER1" $TESTPOOL/fs-clone "$QUOTA_SIZE"
85 log_must check_quota "groupquota@$QGROUP" $TESTPOOL/fs-clone "$GQUOTA_SIZE"
86 #
87 log_must eval "$ZFS list -o userquota@$QUSER1,groupquota@$QGROUP \
88     $TESTPOOL/fs-clone >/dev/null 2>&1"
89 #
90 log_note "zfs promote can not change the previously set user|group quota"
91 log_must $ZFS promote $TESTPOOL/fs-clone
92 #
93 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \
94     $TESTPOOL >/dev/null 2>&1"
95 #
96 log_must check_quota "userquota@$QUSER1" $TESTPOOL/fs-clone "$QUOTA_SIZE"
97 log_must check_quota "groupquota@$QGROUP" $TESTPOOL/fs-clone "$GQUOTA_SIZE"
98 #
99 log_note "zfs send receive can not change the previously set user|group quota"
100 log_must $ZFS send $TESTPOOL/fs-clone@snap | $ZFS receive $TESTPOOL/fs-rev
101 #
102 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \
103     $TESTPOOL >/dev/null 2>&1"
104 #
105 log_must check_quota "userquota@$QUSER1" $TESTPOOL/fs-rev "$QUOTA_SIZE"
106 log_must check_quota "groupquota@$QGROUP" $TESTPOOL/fs-rev "$GQUOTA_SIZE"
107 #
108 log_note "zfs rename can not change the previously set user|group quota"
109 log_must $ZFS rename $TESTPOOL/fs-rev $TESTPOOL/fs-rename
110 #
111 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \
112     $TESTPOOL >/dev/null 2>&1"
113 #
114 log_must check_quota "userquota@$QUSER1" $TESTPOOL/fs-rename "$QUOTA_SIZE"
115 log_must check_quota "groupquota@$QGROUP" $TESTPOOL/fs-rename "$GQUOTA_SIZE"
116 #
117 log_note "zfs upgrade can not change the previously set user|group quota"
118 log_must $ZFS upgrade $TESTPOOL/fs-rename
119 #
120 log_must eval "$ZFS list -r -o userquota@$QUSER1,groupquota@$QGROUP \

```



```
121     $TESTPOOL >/dev/null 2>&1"
123 log_must check_quota "userquota@$QUSER1" $TESTPOOL/fs-rename "$UQUOTA_SIZE"
124 log_must check_quota "groupquota@$QGROUP" $TESTPOOL/fs-rename "$GQUOTA_SIZE"
126 log_pass \
127     "the userquota and groupquota can't change during zfs actions"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_012_neg.ksh 1

```
*****
1783 Fri Nov 22 15:22:22 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_012_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     userquota and groupquota can not be set against snapshot
38 #
39 #
40 # STRATEGY:
41 #     1. Set userquota on snap and check the zfs get
42 #     2. Set groupquota on snap and check the zfs get
43 #
44 #
45 function cleanup
46 {
47     cleanup_quota
48
49     if datasetexists $snap_fs; then
50         log_must $ZFS destroy $snap_fs
51     fi
52 }
53 #
54 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_012_neg.ksh 2

```
56 typeset snap_fs=$QFS@snap
57 log_assert "Check set userquota and groupquota on snapshot"
58 #
59 log_note "Check can not set user|group quota on snapshot"
60 log_must $ZFS snapshot $snap_fs
61 #
62 log_mustnot $ZFS set userquota@$QUSER1=$UQUOTA_SIZE $snap_fs
63 #
64 log_mustnot $ZFS set groupquota@$QGROUP=$GQUOTA_SIZE $snap_fs
65 #
66 log_pass "Check set userquota and groupquota on snapshot"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_common.kshlib 1

```
*****
2647 Fri Nov 22 15:22:22 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_common.kshlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/userquota/userquota.cfg
33 #
34 #
35 # reset the userquota and groupquota and delete temporary files
36 #
37 function cleanup_quota
38 {
39     if datasetexists $QFS; then
40         log_must $ZFS set userquota@$QUSER1=none $QFS
41         log_must $ZFS set userquota@$QUSER2=none $QFS
42         log_must $ZFS set groupquota@$QGROUP=none $QFS
43         recovery_writable $QFS
44     fi
45
46     [[ -f $QFILE ]] && log_must $RM -f $QFILE
47     [[ -f $OFILE ]] && log_must $RM -f $OFILE
48     $SYNC
49
50     return 0
51 }
52 #
53 #
54 # delete user and group that created during the test
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_common.kshlib 2

```
55 #
56 function clean_user_group
57 {
58     for usr in $QUSER1 $QUSER2; do
59         log_must del_user $usr
60     done
61
62     log_must del_group $QGROUP
63
64     return 0
65 }
66 #
67 #
68 # make the $QFS's mountpoint writable for all users
69 #
70 function mkmount_writable
71 {
72     typeset fs=$1
73     typeset mntp=$(get_prop mountpoint $fs)
74     log_must $CHMOD 0777 $mntp
75 }
76 #
77 #
78 # recovery the directory permission for $QFS
79 #
80 function recovery_writable
81 {
82     typeset fs=$1
83     typeset mntp=$(get_prop mountpoint $fs)
84     log_must $CHMOD 0755 $mntp
85 }
86 #
87 #
88 # check the quota value of a specific FS
89 #
90 function check_quota
91 {
92     typeset fs=$2
93     typeset prop=$1
94     typeset expected=$3
95     typeset value=$(get_prop $prop $fs)
96
97     if (($value != $expected)); then
98         return 1
99     fi
100 }
101 #
102 #
103 # zfs get prop, which return raw value not -p value.
104 #
105 function get_value # property dataset
106 {
107     typeset prop_val
108     typeset prop=$1
109     typeset dataset=$2
110
111     prop_val=$(($ZFS get -H -o value $prop $dataset 2>/dev/null)
112     if [[ $? -ne 0 ]]; then
113         log_note "Unable to get $prop property for dataset " \
114             "$dataset"
115         return 1
116     fi
117
118     $ECHO $prop_val
119     return 0
120 }
```

`new/usr/src/test/zfs-tests/tests/functional/userquota/userquota_common.kshlib`

3

new/usr/src/test/zfs-tests/tests/functional/userquota/userspace_001_pos.ksh 1

```
*****
2236 Fri Nov 22 15:22:22 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userspace_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the zfs userspace with all parameters
38 #
39 #
40 # STRATEGY:
41 #     1. set zfs userspace to a fs
42 #     2. write some data to the fs with specified user
43 #     3. use zfs userspace with all possible parameters to check the result
44 #
45 #
46 function cleanup
47 {
48     if datasetexists $snap_fs; then
49         log_must $ZFS destroy $snap_fs
50     fi
51 #
52     log_must cleanup_quota
53 }
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userspace_001_pos.ksh 2

```
55 log_onexit cleanup
57 log_assert "Check the zfs userspace with all possible parameters"
59 set -A params -- "-n" "-H" "-p" "-o type,name,used,quota" \
60     "-o name,used,quota" "-o used,quota" "-o used" "-o quota" "-s type" \
61     "-s name" "-s used" "-s quota" "-S type" "-S name" "-S used" "-S quota" \
62     "-t posixuser" "-t posixgroup" "-t all" "-i" "-tsmbuser" "-t smbgroup"
64 typeset snap_fs=$QFS@snap
66 log_must $ZFS set userquota@$QUSER1=100m $QFS
67 mkmount_writable $QFS
68 log_must user_run $QUSER1 $MKFILE 50m $QFILE
69 $SYNC
71 log_must $ZFS snapshot $snap_fs
73 for param in "${params[@]}; do
74     log_must eval "$ZFS userspace $param $QFS >/dev/null 2>&1"
75     log_must eval "$ZFS userspace $param $snap_fs >/dev/null 2>&1"
76 done
78 log_pass "zfs userspace with all possible parameters pass as expect"
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userspace_002_pos.ksh 1

```
*****
2146 Fri Nov 22 15:22:23 2013
new/usr/src/test/zfs-tests/tests/functional/userquota/userspace_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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```

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/userquota/userquota_common.kshlib
34 #
35 #
36 # DESCRIPTION:
37 #     Check the user used size and quota in zfs userspace
38 #
39 #
40 # STRATEGY:
41 #     1. set zfs userquota to a fs
42 #     2. write some data to the fs with specified user and size
43 #     3. use zfs userspace to check the used size and quota size
44 #
45 #
46 function cleanup
47 {
48     if datasetexists $snapfs; then
49         log_must $ZFS destroy $snapfs
50     fi
51
52     log_must cleanup_quota
53 }
```

new/usr/src/test/zfs-tests/tests/functional/userquota/userspace_002_pos.ksh 2

```
55 log_onexit cleanup
57 log_assert "Check the zfs userspace used and quota"
59 log_must $ZFS set userquota@$QUSER1=100m $QFS
61 mkmount_writable $QFS
63 log_must user_run $QUSER1 $MKFILE 50m $QFILE
64 $SYNC
66 typeset snapfs=$QFS@snap
68 log_must $ZFS snapshot $snapfs
70 log_must eval "$ZFS userspace $QFS >/dev/null 2>&1"
71 log_must eval "$ZFS userspace $snapfs >/dev/null 2>&1"
73 for fs in "$QFS" "$snapfs"; do
74     log_note "check the quota size in zfs userspace $fs"
75     log_must eval "$ZFS userspace $fs | $GREP $QUSER1 | $GREP 100M"
77     log_note "check the user used size in zfs userspace $fs"
78     log_must eval "$ZFS userspace $fs | $GREP $QUSER1 | $GREP 50.0M"
79 done
81 log_pass "Check the zfs userspace used and quota"
```

new/usr/src/test/zfs-tests/tests/functional/utills_test/Makefile

1

1088 Fri Nov 22 15:22:23 2013

new/usr/src/test/zfs-tests/tests/functional/utills_test/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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```

```
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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/utills_test
```

```
21 PROGS = cleanup \
22         setup \
23         utills_test_001_pos \
24         utills_test_002_pos \
25         utills_test_003_pos \
26         utills_test_004_pos \
27         utills_test_005_pos \
28         utills_test_006_pos \
29         utills_test_007_pos \
30         utills_test_008_pos \
31         utills_test_009_pos
```

```
33 FILES = utills_test.cfg \
34         utills_test.kshlib
```

```
36 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
37 $(CMDS) := FILEMODE = 0555
```

```
39 all lint clean clobber:
```

```
41 install: $(CMDS)
```

```
43 $(CMDS): $(TESTDIR)
```

```
45 $(TESTDIR):
46     $(INS.dir)
```

```
48 $(TESTDIR)/%: %.ksh
49     $(INS.rename)
```

```
51 $(TESTDIR)/%: %
52     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/utills_test/cleanup.ksh

1

1031 Fri Nov 22 15:22:24 2013

new/usr/src/test/zfs-tests/tests/functional/utills_test/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```


new/usr/src/test/zfs-tests/tests/functional/utils_test/setup.ksh

1

1091 Fri Nov 22 15:22:24 2013

new/usr/src/test/zfs-tests/tests/functional/utils_test/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.cfg
34 #
35 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test.cfg

1

1095 Fri Nov 22 15:22:24 2013

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test.cfg

4206 history_003_pos relies on exact size of history log and entries

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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 export TESTFILE=testfile-utils
32 #
33 export WRITE_COUNT=20
34 export BLOCKSZ=8192
35 export DATA=0
36 export NUM_FILES=10
37 #
38 export DISK=${DISKS%% *}

```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test.kshlib

1

1574 Fri Nov 22 15:22:25 2013

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test.kshlib

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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29 #
30 . $STF_SUITE/tests/functional/utils_test/utils_test.cfg
31 #
32 #
33 # Given a number of files, this function will iterate through
34 # the loop creating the specified number of files. The default
35 # values from the .cfg file are used for block size, number of
36 # writes per file and the contents of the file.
37 #
38 # Returns the errno if any of the writes fail.
39 #
40 function populate_dir # num_files
41 {
42     typeset -i num_files=$1
43
44     typeset -i filenum=0
45     while (( filenum < num_files )); do
46         log_must $FILE_WRITE -o create -c $WRITE_COUNT \
47             -f $TESTDIR/$TESTFILE.$filenum -b $BLOCKSZ -d $DATA
48         (( filenum = filenum + 1 ))
49     done
50 }
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_001_pos.ksh 1

```
*****
1666 Fri Nov 22 15:22:25 2013
new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the clri(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS directory with a number of files.
41 # 2. Run clri against the raw device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     $RM -rf $TESTDIR/*
50 }
51 #
52 log_onexit cleanup
53 #
54 log_assert "Ensure that the clri(1M) utility fails on a ZFS file system."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_001_pos.ksh 2

```
56 populate_dir $NUM_FILES
57 #
58 inode=`$LS -i $TESTDIR/$TESTFILE.0 | $AWK '{print $1}'`
59 log_mustnot $CLRI /dev/rdisk/$DISK $inode
60 log_mustnot $CLRI -F zfs /dev/rdisk/$DISK $inode
61 #
62 log_pass "clri(1M) returned an error as expected."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_002_pos.ksh 1

```
*****
1708 Fri Nov 22 15:22:25 2013
new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the labelit(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS file system with some files.
41 # 2. Run labelit(1M) against the device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     ismounted $TESTPOOL/$TESTFMS
50     (( $? != 0 )) && \
51         log_must $ZFS mount $TESTPOOL/$TESTFMS
52 #
53     $RM -rf $TESTDIR/*
54 }
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_002_pos.ksh 2

```
56 log_onexit cleanup
58 log_assert "Ensure that the labelit(1M) utility fails on a ZFS file system."
60 populate_dir $NUM_FILES
62 log_must $ZFS unmount $TESTDIR
64 log_mustnot $LABELIT /dev/rdisk/${DISK}s0 mfiles ${DISK}s0
66 log_pass "labelit(1M) returned an error as expected."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_003_pos.ksh 1

```
*****
1744 Fri Nov 22 15:22:26 2013
new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the fsdb(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS directory with a number of files.
41 # 2. Run fsdb against the raw device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     $RM -rf $TESTDIR/*
50 }
51 #
52 log_onexit cleanup
53 #
54 log_assert "Ensure that the fsdb(1M) utility fails on a ZFS file system."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_003_pos.ksh 2

```
56 populate_dir $NUM_FILES
57 inode_num='$LS -li $TESTDIR/$TESTFILE.0 | $AWK '{print $1}'`
58 [[ -z $inode_num ]] && \
59     log_fail "Failed to determine inode of file: $TESTDIR/$TESTFILE.0"
60 #
61 log_mustnot $ECHO ":inode $inode_num" | $FSDB /dev/rdisk/${DISK}s0
62 #
63 log_pass "fsdb(1M) returned an error as expected."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_004_pos.ksh 1

1620 Fri Nov 22 15:22:26 2013

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_004_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the quotaon(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Enable a quota on a ZFS file system.
41 # 2. Run quotaon against the device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     $RM -rf $TESTDIR/*
50 }
51 #
52 log_onexit cleanup
53 #
54 log_assert "Ensure that the quotaon(1M) utility fails on a ZFS file system."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_004_pos.ksh 2

56 log_must \$ZFS set quota=1099511627776 \$TESTPOOL/\$TESTFS

57 log_must \$TOUCH \$TESTDIR/quotas

58 log_mustnot \$QUOTAON /dev/dsk/\${DISK}s0

60 log_pass "quotaon(1M) returned an error as expected."

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_005_pos.ksh 1

```
*****
1551 Fri Nov 22 15:22:26 2013
new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the ff(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS file system with some files.
41 # 2. Run ff(1M) against the device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     $RM -rf $TESTDIR/*
50 }
51 #
52 log_onexit cleanup
53 #
54 log_assert "Ensure that the ff(1M) utility fails on a ZFS file system."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_005_pos.ksh 2

```
56 populate_dir $NUM_FILES
57 #
58 log_mustnot $FF -F zfs /dev/rdisk/${DISK}s0
59 #
60 log_pass "ff(1M) returned an error as expected."
```


new/usr/src/test/zfs-tests/tests/functional/utills_test/utills_test_006_pos.ksh 1

```
*****
1691 Fri Nov 22 15:22:27 2013
new/usr/src/test/zfs-tests/tests/functional/utills_test/utills_test_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utills_test/utills_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the fsirand(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS file system with some files.
41 # 2. Run fsirand(1M) against the device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     ismounted $TESTPOOL/$TESTFMS
50     (( $? != 0 )) && \
51         log_must $ZFS mount $TESTPOOL/$TESTFMS
52 #
53     $RM -rf $TESTDIR/*
54 }
```

new/usr/src/test/zfs-tests/tests/functional/utills_test/utills_test_006_pos.ksh 2

```
56 log_onexit cleanup
58 log_assert "Ensure that the fsirand(1M) utility fails on a ZFS file system."
60 populate_dir $NUM_FILES
62 log_must $ZFS unmount $TESTDIR
64 log_mustnot $FSIRAND /dev/rdisk/${DISK}s0
66 log_pass "fsirand(1M) returned an error as expected."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_007_pos.ksh 1

```
*****
1819 Fri Nov 22 15:22:27 2013
new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_007_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the fstyp(1M) utility succeeds on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS file system with some files.
41 # 2. Run fstyp(1M) against the device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     ismounted $TESTPOOL/$TESTFS
50     (( $? != 0 )) && \
51         log_must $ZFS mount $TESTPOOL/$TESTFS
52 #
53     $RM -rf $TESTDIR/*
54 }
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_007_pos.ksh 2

```
55 log_onexit cleanup
56 #
57 #
58 log_assert "Ensure that the fstyp(1M) utility succeeds on a ZFS file system."
59 #
60 populate_dir $NUM_FILES
61 #
62 log_must $ZFS unmount $TESTDIR
63 #
64 if ! $(is_physical_device $DISK); then
65     log_must $FSTYP $DISK
66 elif [[ $WRAPPER == "smi" ]]; then
67     log_must $FSTYP /dev/rdisk/${DISK}s2
68 else
69     log_must $FSTYP /dev/rdisk/${DISK}s0
70 fi
71 #
72 log_pass "fstyp(1M) returned successfully."
```

```

*****
1686 Fri Nov 22 15:22:28 2013
new/usr/src/test/zfs-tests/tests/functional/utills_test/utills_test_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utills_test/utills_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the ncheck(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS file system with some files.
41 # 2. Run ncheck(1M) against the device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     ismounted $TESTPOOL/$TESTFVS
50     (( $? != 0 )) && \
51         log_must $ZFS mount $TESTPOOL/$TESTFVS
52 #
53     $RM -rf $TESTDIR/*
54 }

```

```

56 log_onexit cleanup
58 log_assert "Ensure that the ncheck(1M) utility fails on a ZFS file system."
60 populate_dir $NUM_FILES
62 log_must $ZFS unmount $TESTDIR
64 log_mustnot $NCHECK /dev/rdisk/${DISK}s0
66 log_pass "ncheck(1M) returned an error as expected."

```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_009_pos.ksh 1

```
*****
1569 Fri Nov 22 15:22:28 2013
new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_009_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/utils_test/utils_test.kshlib
34 #
35 #
36 # DESCRIPTION:
37 # Ensure that the tunefs(1M) utility fails on a ZFS file system.
38 #
39 # STRATEGY:
40 # 1. Populate a ZFS file system with some files.
41 # 2. Run tunefs(1M) against the device.
42 # 3. Ensure it fails.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     $RM -rf $TESTDIR/*
50 }
51 #
52 log_onexit cleanup
53 #
54 log_assert "Ensure that the tunefs(1M) utility fails on a ZFS file system."
```

new/usr/src/test/zfs-tests/tests/functional/utils_test/utils_test_009_pos.ksh 2

```
56 populate_dir $NUM_FILES
57 #
58 log_mustnot $TUNEFES -m 80 /dev/dsk/${DISK}s0
59 #
60 log_pass "tunefs(1M) returned an error as expected."
```

new/usr/src/test/zfs-tests/tests/functional/write_dirs/Makefile

1

913 Fri Nov 22 15:22:28 2013

new/usr/src/test/zfs-tests/tests/functional/write_dirs/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/write_dirs
```

```
21 PROGS = cleanup \
22         setup \
23         write_dirs_001_pos \
24         write_dirs_002_pos
```

```
26 FILES = write_dirs.cfg
```

```
28 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
29 $(CMDS) := FILEMODE = 0555
```

```
31 all lint clean clobber:
```

```
33 install: $(CMDS)
```

```
35 $(CMDS): $(TESTDIR)
```

```
37 $(TESTDIR):
38     $(INS.dir)
```

```
40 $(TESTDIR)/%: %.ksh
41     $(INS.rename)
```

```
43 $(TESTDIR)/%: %
44     $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/write_dirs/cleanup.ksh

1

1031 Fri Nov 22 15:22:29 2013

new/usr/src/test/zfs-tests/tests/functional/write_dirs/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/write_dirs/setup.ksh

1

1278 Fri Nov 22 15:22:29 2013

new/usr/src/test/zfs-tests/tests/functional/write_dirs/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 verify_runnable "global"
35 #
36 export SIZE="lgb"
37 export SLICE=0
38 #
39 if ! $(is_physical_device $DISKS) ; then
40     log_unsupported "This directory cannot be run on raw files."
41 fi
42 #
43 DISK=${DISKS%% *}
44 #
45 log_must set_partition $SLICE "" $SIZE $DISK
46 #
47 default_setup "$DISK"s"$SLICE"
```

new/usr/src/test/zfs-tests/tests/functional/write_dirs/write_dirs_001_pos.ksh 1

```
*****
1983 Fri Nov 22 15:22:29 2013
new/usr/src/test/zfs-tests/tests/functional/write_dirs/write_dirs_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Create as many directories with 50 big files each until the file system
37 # is full. The zfs file system should be stable and works well.
38 #
39 # STRATEGY:
40 # 1. Create a pool & dataset
41 # 2. Make directories in the zfs file system
42 # 3. Create 50 big files in each directories
43 # 4. Test case exit when the disk is full.
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     for file in ` $FIND $TESTDIR -type f `; do
51         $CAT /dev/null > $file
52     done
53     log_must $SYNC
54     log_must $RM -rf $TESTDIR/*
```

new/usr/src/test/zfs-tests/tests/functional/write_dirs/write_dirs_001_pos.ksh 2

```
55 }
56 #
57 typeset -i retval=0
58 log_assert "Creating directories with 50 big files in each, until file system "\
59     "is full."
60 #
61 log_onexit cleanup
62 #
63 typeset -i bytes=8192
64 typeset -i num_writes=300000
65 typeset -i dirnum=50
66 typeset -i filenum=50
67 #
68 fill_fs " " $dirnum $filenum $bytes $num_writes
69 retval=$?
70 if (( retval == 28 )); then
71     log_note "No space left on device."
72 elif (( retval != 0 )); then
73     log_fail "Unexpected exit: $retval"
74 fi
75 #
76 log_pass "Write big files in a directory succeeded."
```


new/usr/src/test/zfs-tests/tests/functional/write_dirs/write_dirs_002_pos.ksh 1

```
*****
1977 Fri Nov 22 15:22:30 2013
new/usr/src/test/zfs-tests/tests/functional/write_dirs/write_dirs_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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27 #
28 #
29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Create as many directories with 5000 files each until the file system
37 # is full. The zfs file system should be work well and stable.
38 #
39 # STRATEGY:
40 # 1. Create a pool & dataset
41 # 2. Make directories in the zfs file system
42 # 3. Create 5000 files in each directories
43 # 4. Test case exit when the disk is full
44 #
45 #
46 verify_runnable "both"
47 #
48 function cleanup
49 {
50     for file in ` $FIND $TESTDIR -type f `; do
51         $CAT /dev/null > $file
52     done
53     log_must $SYNC
54     log_must $RM -rf $TESTDIR/*
55 }
```

new/usr/src/test/zfs-tests/tests/functional/write_dirs/write_dirs_002_pos.ksh 2

```
55 }
56 #
57 typeset -i retval=0
58 #
59 log_assert "Creating directories with 5000 files in each, until file system " \
60     "is full."
61 #
62 log_onexit cleanup
63 #
64 typeset -i bytes=8192
65 typeset -i num_writes=20
66 typeset -i dirnum=50
67 typeset -i filenum=5000
68 #
69 fill_fs "" $dirnum $filenum $bytes $num_writes
70 retval=?
71 if (( retval == 28 )); then
72     log_note "No space left on device."
73 elif (( retval != 0 )); then
74     log_fail "Unexpected exit: $retval"
75 fi
76 #
77 log_pass "Create many files in a directory succeeded."
```

```
*****
```

```
1092 Fri Nov 22 15:22:30 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/xattr/Makefile
```

```
4206 history_003_pos relies on exact size of history log and entries
```

```
4207 history_008_pos depends on obsolete internal history log message
```

```
4208 Typo in zfs_main.c: "posxiuser"
```

```
4209 Populate zfstest with the remainder of the STF tests
```

```
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
```

```
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```

```
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Reviewed by: Christopher Siden <christopher.siden@delphix.com>
```

```
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```

```
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/xattr
```

```
21 PROGS = cleanup \
22         setup \
23         xattr_001_pos \
24         xattr_002_neg \
25         xattr_003_neg \
26         xattr_004_pos \
27         xattr_005_pos \
28         xattr_006_pos \
29         xattr_007_neg \
30         xattr_008_pos \
31         xattr_009_neg \
32         xattr_010_neg \
33         xattr_011_pos \
34         xattr_012_pos \
35         xattr_013_pos \
```

```
37 FILES = xattr_common.kshlib
```

```
39 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
40 $(CMDS) := FILEMODE = 0555
```

```
42 all lint clean clobber:
```

```
44 install: $(CMDS)
```

```
46 $(CMDS): $(TESTDIR)
```

```
48 $(TESTDIR):
```

```
49     $(INS.dir)
```

```
51 $(TESTDIR)/%: %.ksh
```

```
52     $(INS.rename)
```

```
54 $(TESTDIR)/%: %
```

```
55 $(INS.file)
```

new/usr/src/test/zfs-tests/tests/functional/xattr/cleanup.ksh

1

1293 Fri Nov 22 15:22:30 2013

new/usr/src/test/zfs-tests/tests/functional/xattr/cleanup.ksh
4206 history_003_pos relies on exact size of history log and entries
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28 #
29 #
30 . $STF_SUITE/include/libtest.shlib
31 #
32 ZFS_USER=$(CAT /tmp/zfs-xattr-test-user.txt)
33 $RM /tmp/zfs-xattr-test-user.txt
34 #
35 USES_NIS=$(CAT /tmp/zfs-xattr-test-nis.txt)
36 $RM /tmp/zfs-xattr-test-nis.txt
37 #
38 del_user $ZFS_USER
39 #
40 if [ "${USES_NIS}" == "true" ]
41 then
42     $SVCADM enable svc:/network/nis/client:default
43 fi
44 #
45 default_cleanup
```

new/usr/src/test/zfs-tests/tests/functional/xattr/setup.ksh

1

1755 Fri Nov 22 15:22:31 2013

new/usr/src/test/zfs-tests/tests/functional/xattr/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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28 #
29 #
30 . $STF_SUITE/include/libtest.shlib
31 #
32 # if we're running NIS, turn it off until we clean up
33 # (it can cause useradd to take a long time, hitting our TIMEOUT)
34 USES_NIS=FALSE
35 $SVCS svc:/network/nis/client:default | $GREP online > /dev/null
36 if [ $? -eq 0 ]
37 then
38     $SVCADM disable -t svc:/network/nis/client:default
39     USES_NIS=true
40 fi
41 #
42 # Make sure we use a brand new user for this
43 ZFS_USER=zxtr
44 ZFS_GROUP=staff
45 while [ -z "${FOUND}" ]
46 do
47     COUNT=0
48     USER_EXISTS=$( $GREP $ZFS_USER /etc/passwd )
49     if [ ! -z "${USER_EXISTS}" ]
50     then
51         ZFS_USER="${ZFS_USER}${COUNT}"
52         COUNT=$(( COUNT + 1 ))
53     else
54         FOUND="true"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/setup.ksh

2

```
55     fi
56 done
57 #
58 log_must add_user $ZFS_GROUP $ZFS_USER
59 #
60 $ECHO $ZFS_USER > /tmp/zfs-xattr-test-user.txt
61 $ECHO $USES_NIS > /tmp/zfs-xattr-test-nis.txt
62 #
63 DISK=${DISKS%% *}
64 default_setup $DISK
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_001_pos.ksh

1

1818 Fri Nov 22 15:22:31 2013

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_001_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

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28 #
29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 #
36 # Creating, reading and writing xattrs on ZFS filesystems works as expected
37 #
38 # STRATEGY:
39 #     1. Create an xattr on a ZFS-based file using runat
40 #     2. Read an empty xattr directory
41 #     3. Write the xattr using runat and cat
42 #     4. Read the xattr using runat
43 #     5. Delete the xattr
44 #     6. List the xattr namespace successfully, checking for deletion
45 #
46 #
47 function cleanup {
48     if [ -f $TESTDIR/myfile.$$ ]
49     then
50         log_pass $RM $TESTDIR/myfile.$$
51     fi
52 }
53 }
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_001_pos.ksh

2

55 log_assert "Create/read/write/append of xattrs works"

56 log_onexit cleanup

58 log_must \$TOUCH \$TESTDIR/myfile.\$\$

59 create_xattr \$TESTDIR/myfile.\$\$ passwd /etc/passwd

60 verify_write_xattr \$TESTDIR/myfile.\$\$ passwd

61 delete_xattr \$TESTDIR/myfile.\$\$ passwd

63 log_pass "Create/read/write of xattrs works"

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_002_neg.ksh

1

1548 Fri Nov 22 15:22:31 2013

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_002_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 #
36 # Trying to read a non-existent xattr should fail.
37 #
38 # STRATEGY:
39 #     1. Create a file
40 #     2. Try to read a non-existent xattr, check that an error is returned.
41 #
42 #
43 function cleanup {
44
45     log_must $RM $TESTDIR/myfile.$$
46
47 }
48 #
49 log_assert "A read of a non-existent xattr fails"
50 log_onexit cleanup
51 #
52 # create a file
53 log_must $TOUCH $TESTDIR/myfile.$$
54 log_mustnot eval "$CAT $TESTDIR/myfile.$$ not-here.txt > /dev/null 2>&1"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_002_neg.ksh

2

```
56 log_pass "A read of a non-existent xattr fails"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_003_neg.ksh

1

1905 Fri Nov 22 15:22:32 2013

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_003_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

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27 # Copyright (c) 2013 by Delphix. All rights reserved.
28 #
29 #
30 # $STF_SUITE/include/libtest.shlib
31 # $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 #
36 # Attempting to read an xattr on a file for which we have no permissions
37 # should fail.
38 #
39 # STRATEGY:
40 # 1. Create a file, and set an with an xattr
41 # 2. Set the octal file permissions to 000 on the file.
42 # 3. Check that we're unable to read the xattr as a non-root user
43 # 4. Check that we're unable to write an xattr as a non-root user
44 #
45 #
46 function cleanup {
47
48     log_must $RM $TESTDIR/myfile.$$
49
50 }
51 #
52 log_assert "read/write xattr on a file with no permissions fails"
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_003_neg.ksh

2

```
55 log_must $TOUCH $TESTDIR/myfile.$$
```

```
56 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
```

```
58 log_must $CHMOD 000 $TESTDIR/myfile.$$
```

```
59 log_mustnot $SU $ZFS_USER -c "$RUNAT $TESTDIR/myfile.$$ $CAT passwd"
```

```
60 log_mustnot $SU $ZFS_USER -c "$RUNAT $TESTDIR/myfile.$$ $CP /etc/passwd ."
```

```
62 log_pass "read/write xattr on a file with no permissions fails"
```

```

*****
2689 Fri Nov 22 15:22:32 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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28 #
29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 #
36 # Creating files on ufs and tmpfs, and copying those files to ZFS with
37 # appropriate cp flags, the xattrs will still be readable.
38 #
39 # STRATEGY:
40 # 1. Create files in ufs and tmpfs with xattrs
41 # 2. Copy those files to zfs
42 # 3. Ensure the xattrs can be read and written
43 # 4. Do the same in reverse.
44 #
45 #
46 # we need to be able to create zvols to hold our test
47 # ufs filesystem.
48 verify_runnable "global"
49 #
50 # Make sure we clean up properly
51 function cleanup {
52 #
53     if [ $(ismounted /tmp/ufs.$$ ufs) ]
54     then

```

```

55         log_must $UMOUNT /tmp/ufs.$$
56         log_must $RM -rf /tmp/ufs.$$
57     fi
58 }
59 #
60 log_assert "Files from ufs,tmpfs with xattrs copied to zfs retain xattr info."
61 log_onexit cleanup
62 #
63 # Create a UFS file system that we can work in
64 log_must $ZFS create -v128m $TESTPOOL/$TESTFS/zvol
65 log_must eval "$ECHO y | $NEWFS /dev/zvol/dsk/$TESTPOOL/$TESTFS/zvol > /dev/null"
66 #
67 log_must $MKDIR /tmp/ufs.$$
68 log_must $MOUNT /dev/zvol/dsk/$TESTPOOL/$TESTFS/zvol /tmp/ufs.$$
69 #
70 # Create files in ufs and tmpfs, and set some xattrs on them.
71 log_must $TOUCH /tmp/ufs.$$/ufs-file.$$
72 log_must $TOUCH /tmp/tmpfs-file.$$
73 #
74 log_must $RUNAT /tmp/ufs.$$/ufs-file.$$ $CP /etc/passwd .
75 log_must $RUNAT /tmp/tmpfs-file.$$ $CP /etc/group .
76 #
77 # copy those files to ZFS
78 log_must $CP -@ /tmp/ufs.$$/ufs-file.$$ $TESTDIR
79 log_must $CP -@ /tmp/tmpfs-file.$$ $TESTDIR
80 #
81 # ensure the xattr information has been copied correctly
82 log_must $RUNAT $TESTDIR/ufs-file.$$ $DIFF passwd /etc/passwd
83 log_must $RUNAT $TESTDIR/tmpfs-file.$$ $DIFF group /etc/group
84 #
85 log_must $UMOUNT /tmp/ufs.$$
86 log_pass "Files from ufs,tmpfs with xattrs copied to zfs retain xattr info."

```


new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_005_pos.ksh

1

```
*****
2473 Fri Nov 22 15:22:32 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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28 #
29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # read/write/create/delete xattr on a clone filesystem
36 #
37 #
38 # STRATEGY:
39 # 1. Create an xattr on a filesystem
40 # 2. Snapshot the filesystem and clone it
41 # 3. Verify the xattr can still be read, written, deleted
42 # 4. Verify we can create new xattrs on new files created on the clone
43 #
44 #
45 function cleanup {
46 #
47     log_must $ZFS destroy $TESTPOOL/$TESTFS/clone
48     log_must $ZFS destroy $TESTPOOL/$TESTFS@snapshot1
49     log_must $RM $TESTDIR/myfile.$$
50 }
51 #
52 log_assert "read/write/create/delete xattr on a clone filesystem"
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_005_pos.ksh

2

```
55 # create a file, and an xattr on it
56 log_must $TOUCH $TESTDIR/myfile.$$
57 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
58 #
59 # snapshot & clone the filesystem
60 log_must $ZFS snapshot $TESTPOOL/$TESTFS@snapshot1
61 log_must $ZFS clone $TESTPOOL/$TESTFS@snapshot1 $TESTPOOL/$TESTFS/clone
62 log_must $ZFS set mountpoint=$TESTDIR/clone $TESTPOOL/$TESTFS/clone
63 #
64 # check for the xattrs on the clone
65 verify_xattr $TESTDIR/clone/myfile.$$ passwd /etc/passwd
66 #
67 # check we can create xattrs on the clone
68 create_xattr $TESTDIR/clone/myfile.$$ foo /etc/passwd
69 delete_xattr $TESTDIR/clone/myfile.$$ foo
70 #
71 # delete the original dataset xattr
72 delete_xattr $TESTDIR/myfile.$$ passwd
73 #
74 # verify it's still there on the clone
75 verify_xattr $TESTDIR/clone/myfile.$$ passwd /etc/passwd
76 delete_xattr $TESTDIR/clone/myfile.$$ passwd
77 #
78 log_pass "read/write/create/delete xattr on a clone filesystem"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_006_pos.ksh 1

1792 Fri Nov 22 15:22:33 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # Xattrs present on a file in a snapshot should be visible.
36 #
37 # STRATEGY:
38 # 1. Create a file and give it an xattr
39 # 2. Take a snapshot of the filesystem
40 # 3. Verify that we can take a snapshot of it.
41 #
42 #
43 function cleanup {
44 #
45     log_must $ZFS destroy $TESTPOOL/$TESTFS@snap
46     log_must $RM $TESTDIR/myfile.$$
47 #
48 }
49 #
50 log_assert "read xattr on a snapshot"
51 log_onexit cleanup
52 #
53 # create a file, and an xattr on it
54 log_must $TOUCH $TESTDIR/myfile.$$
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_006_pos.ksh 2

```
55 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
56 #
57 # snapshot the filesystem
58 log_must $ZFS snapshot $TESTPOOL/$TESTFS@snap
59 #
60 # check for the xattr on the snapshot
61 verify_xattr $TESTDIR/.zfs/snapshot/snap/myfile.$$ passwd /etc/passwd
62 #
63 log_pass "read xattr on a snapshot"
```

```
*****
```

```
2752 Fri Nov 22 15:22:33 2013
```

```
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_007_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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28 #
29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # Creating and writing xattrs on files in snapshot directories fails. Also,
36 # we shouldn't be able to list the xattrs of files in snapshots who didn't have
37 # xattrs when the snapshot was created (the xattr namespace wouldn't have been
38 # created yet, and snapshots are read-only) See fsattr(5) for more details.
39 #
40 # STRATEGY:
41 # 1. Create a file and add an xattr to it.
42 # 2. Create another file, but don't add an xattr to it.
43 # 3. Snapshot the filesystem
44 # 4. Verify we're unable to alter the xattr on the first file
45 # 5. Verify we're unable to list the xattrs on the second file
46 #
47 #
48 function cleanup {
49     log_must $ZFS destroy $TESTPOOL/$TESTFS@snap
50     log_must $RM $TESTDIR/myfile2.$$
51     log_must $RM $TESTDIR/myfile.$$
52     log_must $RM /tmp/output.$$
53     [[ -e /tmp/expected_output.$$ ] ] && log_must $RM \
54     /tmp/expected_output.##
```

```
56 }
57 #
58 log_assert "create/write xattr on a snapshot fails"
59 log_onexit cleanup
60 #
61 # create a file, and an xattr on it
62 log_must $TOUCH $TESTDIR/myfile.$$
63 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
64 #
65 # create another file that doesn't have an xattr
66 log_must $TOUCH $TESTDIR/myfile2.$$
67 #
68 # snapshot the filesystem
69 log_must $ZFS snapshot $TESTPOOL/$TESTFS@snap
70 #
71 # we shouldn't be able to alter the first file's xattr
72 log_mustnot eval " $RUNAT $TESTDIR/.zfs/snapshot/snap/myfile.$$ \
73     $CP /etc/passwd . >/tmp/output.$$ 2>&1"
74 log_must $GREP -i Read-only /tmp/output.$$
75 #
76 log_must eval " $RUNAT $TESTDIR/.zfs/snapshot/snap/myfile2.$$ \
77     $LS >/tmp/output.$$ 2>&1"
78 create_expected_output /tmp/expected_output.$$ SUNWattr_ro SUNWattr_rw
79 log_must $DIFF /tmp/output.$$ /tmp/expected_output.$$
80 #
81 log_pass "create/write xattr on a snapshot fails"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_008_pos.ksh

1

```
*****
2499 Fri Nov 22 15:22:34 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_008_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # We verify that the special . and .. dirs work as expected for xattrs.
36 #
37 # STRATEGY:
38 # 1. Create a file and an xattr on that file
39 # 2. List the . directory, verifying the output
40 # 3. Verify we're unable to list the ../ directory
41 #
42 #
43 function cleanup {
44     typeset file
45
46     for file in /tmp/output.$$ /tmp/expected-output.$$ \
47         $TESTDIR/myfile.$$ ; do
48         log_must $RM -f $file
49     done
50 }
51 #
52 log_assert "special . and .. dirs work as expected for xattrs"
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_008_pos.ksh

2

```
55 # create a file, and an xattr on it
56 log_must $TOUCH $TESTDIR/myfile.$$
57 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
58 #
59 # listing the directory .
60 log_must eval "$RUNAT $TESTDIR/myfile.$$ $LS . > /tmp/output.$$"
61 create_expected_output /tmp/expected-output.$$ \
62     SUNWattr_ro SUNWattr_rw passwd
63 log_must $DIFF /tmp/output.$$ /tmp/expected-output.$$
64 # list the directory . long form
65 log_must eval "$RUNAT $TESTDIR/myfile.$$ $LS -a . > /tmp/output.$$"
66 create_expected_output /tmp/expected-output.$$ . . \
67     SUNWattr_ro SUNWattr_rw passwd
68 log_must $DIFF /tmp/output.$$ /tmp/expected-output.$$
69 #
70 # list the directory .. expecting one file
71 OUTPUT=$( $RUNAT $TESTDIR/myfile.$$ $LS .. )
72 if [ "$OUTPUT" != ".." ]
73 then
74     log_fail "Listing the .. directory doesn't show \"..\" as expected."
75 fi
76 #
77 # verify we can't list ../
78 log_mustnot eval "$RUNAT $TESTDIR/myfile.$$ $LS ../ > /dev/null 2>&1"
79 #
80 log_pass "special . and .. dirs work as expected for xattrs"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_009_neg.ksh 1

1933 Fri Nov 22 15:22:34 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_009_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # links between xattr and normal file namespace fail
36 #
37 # STRATEGY:
38 # 1. Create a file and add an xattr to it (to ensure the namespace exists)
39 # 2. Verify we're unable to create a symbolic link
40 # 3. Verify we're unable to create a hard link
41 #
42 #
43 function cleanup {
44     log_must $RM $TESTDIR/myfile.$$
45 }
46 #
47 }
48 #
49 log_assert "links between xattr and normal file namespace fail"
50 log_onexit cleanup
51 #
52 # create a file, and an xattr on it
53 log_must $TOUCH $TESTDIR/myfile.$$
54 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_009_neg.ksh 2

```
56 # Try to create a soft link from the xattr namespace to the default namespace
57 log_mustnot $RUNAT $TESTDIR/myfile.$$ $LN -s /etc/passwd foo
58 #
59 # Try to create a hard link from the xattr namespace to the default namespace
60 log_mustnot $RUNAT $TESTDIR/myfile.$$ $LN /etc/passwd foo
61 #
62 log_pass "links between xattr and normal file namespace fail"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_010_neg.ksh 1

```
*****
1969 Fri Nov 22 15:22:34 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_010_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
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29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # Verify that mkdir and various mknods fail inside the xattr namespace
36 #
37 # STRATEGY:
38 # 1. Create a file and add an xattr to it (to ensure the namespace exists)
39 # 2. Verify that mkdir fails inside the xattr namespace
40 # 3. Verify that various mknods fails inside the xattr namespace
41 #
42 #
43 #
44 function cleanup {
45     log_must $RM $TESTDIR/myfile.$$
46 }
47
48 log_assert "mkdir, mknod fail"
49 log_onexit cleanup
50
51 #
52 # create a file, and an xattr on it
53 log_must $TOUCH $TESTDIR/myfile.$$
54 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_010_neg.ksh 2

```
56 # Try to create directory in the xattr namespace
57 log_mustnot $RUNAT $TESTDIR/myfile.$$ $MKDIR foo
58 #
59 # Try to create a range of different filetypes in the xattr namespace
60 log_mustnot $RUNAT $TESTDIR/myfile.$$ $MKNOD block b 888 888
61 #
62 log_mustnot $RUNAT $TESTDIR/myfile.$$ $MKNOD char c
63 #
64 log_mustnot $RUNAT $TESTDIR/myfile.$$ $MKNOD fifo p
65 #
66 log_pass "mkdir, mknod fail"
```

```

*****
6058 Fri Nov 22 15:22:35 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_011_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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29 #
30 #
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32 #
33 #
34 . $STF_SUITE/include/libtest.shlib
35 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
36 #
37 #
38 # DESCRIPTION:
39 #
40 # Basic applications work with xattrs: cpio cp find mv pax tar
41 #
42 # STRATEGY:
43 # 1. For each application
44 # 2. Create an xattr and archive/move/copy/find files with xattr support
45 # 3. Also check that when appropriate flag is not used, the xattr
46 #    doesn't get copied
47 #
48 #
49 function cleanup {
50 #
51     log_assert $RM $TESTDIR/myfile.$$
52 }
53 #
54 log_assert "Basic applications work with xattrs: cpio cp find mv pax tar"

```

```

55 log_onexit cleanup
56 #
57 # Create a file, and set an xattr on it. This file is used in several of the
58 # test scenarios below.
59 log_must $TOUCH $TESTDIR/myfile.$$
60 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
61 #
62 #
63 # For the archive applications below (tar, cpio, pax)
64 # we create two archives, one with xattrs, one without
65 # and try various cpio options extracting the archives
66 # with and without xattr support, checking for correct behaviour
67 #
68 #
69 log_note "Checking cpio"
70 log_must $TOUCH $TESTDIR/cpio.$$
71 create_xattr $TESTDIR/cpio.$$ passwd /etc/passwd
72 $ECHO $TESTDIR/cpio.$$ | $CPIO -o@ > /tmp/xattr.$$cpio
73 $ECHO $TESTDIR/cpio.$$ | $CPIO -o > /tmp/noxattr.$$cpio
74 #
75 # we should have no xattr here
76 log_must $CPIO -iu < /tmp/xattr.$$cpio
77 log_mustnot eval "$RUNAT $TESTDIR/cpio.$$ $CAT passwd > /dev/null 2>&1"
78 #
79 # we should have an xattr here
80 log_must $CPIO -iu@ < /tmp/xattr.$$cpio
81 log_must eval "$RUNAT $TESTDIR/cpio.$$ $CAT passwd > /dev/null 2>&1"
82 #
83 # we should have no xattr here
84 log_must $CPIO -iu < /tmp/noxattr.$$cpio
85 log_mustnot eval "$RUNAT $TESTDIR/cpio.$$ $CAT passwd > /dev/null 2>&1"
86 #
87 # we should have no xattr here
88 log_must $CPIO -iu@ < /tmp/noxattr.$$cpio
89 log_mustnot eval "$RUNAT $TESTDIR/cpio.$$ $CAT passwd > /dev/null 2>&1"
90 log_must $RM $TESTDIR/cpio.$$ /tmp/xattr.$$cpio /tmp/noxattr.$$cpio
91 #
92 #
93 #
94 log_note "Checking cp"
95 # check that with the right flag, the xattr is preserved
96 log_must $CP -@ $TESTDIR/myfile.$$ $TESTDIR/myfile2.$$
97 compare_xattrs $TESTDIR/myfile.$$ $TESTDIR/myfile2.$$ passwd
98 log_must $RM $TESTDIR/myfile2.$$
99 #
100 # without the right flag, there should be no xattr
101 log_must $CP $TESTDIR/myfile.$$ $TESTDIR/myfile2.$$
102 log_mustnot eval "$RUNAT $TESTDIR/myfile2.$$ $LS passwd > /dev/null 2>&1"
103 log_must $RM $TESTDIR/myfile2.$$
104 #
105 #
106 #
107 log_note "Checking find"
108 # create a file without xattrs, and check that find -xattr only finds
109 # our test file that has an xattr.
110 log_must $MKDIR $TESTDIR/noxattrs
111 log_must $TOUCH $TESTDIR/noxattrs/no-xattr
112 #
113 $FIND $TESTDIR -xattr | $GREP myfile.$$
114 [[ $? -ne 0 ]] && \
115     log_fail "find -xattr didn't find our file that had an xattr."
116 $FIND $TESTDIR -xattr | $GREP no-xattr
117 [[ $? -eq 0 ]] && \
118     log_fail "find -xattr found a file that didn't have an xattr."
119 log_must $RM -rf $TESTDIR/noxattrs

```

```

123 log_note "Checking mv"
124 # mv doesn't have any flags to preserve/ommit xattrs - they're
125 # always moved.
126 log_must $TOUCH $TESTDIR/mvfile.$$
127 create_xattr $TESTDIR/mvfile.$$ passwd /etc/passwd
128 log_must $MV $TESTDIR/mvfile.$$ $TESTDIR/mvfile2.$$
129 verify_xattr $TESTDIR/mvfile2.$$ passwd /etc/passwd
130 log_must $RM $TESTDIR/mvfile2.$$

133 log_note "Checking pax"
134 log_must $TOUCH $TESTDIR/pax.$$
135 create_xattr $TESTDIR/pax.$$ passwd /etc/passwd
136 log_must $PAX -w -f $TESTDIR/noxattr.pax $TESTDIR/pax.$$
137 log_must $PAX -w@ -f $TESTDIR/xattr.pax $TESTDIR/pax.$$
138 log_must $RM $TESTDIR/pax.$$

140 # we should have no xattr here
141 log_must $PAX -r -f $TESTDIR/noxattr.pax
142 log_mustnot eval "$RUNAT $TESTDIR/pax.$$ $CAT passwd > /dev/null 2>&1"
143 log_must $RM $TESTDIR/pax.$$

145 # we should have no xattr here
146 log_must $PAX -r@ -f $TESTDIR/noxattr.pax
147 log_mustnot eval "$RUNAT $TESTDIR/pax.$$ $CAT passwd > /dev/null 2>&1"
148 log_must $RM $TESTDIR/pax.$$

151 # we should have an xattr here
152 log_must $PAX -r@ -f $TESTDIR/xattr.pax
153 verify_xattr $TESTDIR/pax.$$ passwd /etc/passwd
154 log_must $RM $TESTDIR/pax.$$

156 # we should have no xattr here
157 log_must $PAX -r -f $TESTDIR/xattr.pax $TESTDIR
158 log_mustnot eval "$RUNAT $TESTDIR/pax.$$ $CAT passwd > /dev/null 2>&1"
159 log_must $RM $TESTDIR/pax.$$ $TESTDIR/noxattr.pax $TESTDIR/xattr.pax

162 log_note "Checking tar"
163 log_must $TOUCH $TESTDIR/tar.$$
164 create_xattr $TESTDIR/tar.$$ passwd /etc/passwd

166 log_must cd $TESTDIR

168 log_must $TAR cf noxattr.tar tar.$$
169 log_must $TAR c@f xattr.tar tar.$$
170 log_must $RM $TESTDIR/tar.$$

172 # we should have no xattr here
173 log_must $TAR xf xattr.tar
174 log_mustnot eval "$RUNAT $TESTDIR/tar.$$ $CAT passwd > /dev/null 2>&1"
175 log_must $RM $TESTDIR/tar.$$

177 # we should have an xattr here
178 log_must $TAR x@f xattr.tar
179 verify_xattr tar.$$ passwd /etc/passwd
180 log_must $RM $TESTDIR/tar.$$

182 # we should have no xattr here
183 log_must $TAR xf $TESTDIR/noxattr.tar
184 log_mustnot eval "$RUNAT $TESTDIR/tar.$$ $CAT passwd > /dev/null 2>&1"
185 log_must $RM $TESTDIR/tar.$$

```

```

187 # we should have no xattr here
188 log_must $TAR x@f $TESTDIR/noxattr.tar
189 log_mustnot eval "$RUNAT $TESTDIR/tar.$$ $CAT passwd > /dev/null 2>&1"
190 log_must $RM $TESTDIR/tar.$$ $TESTDIR/noxattr.tar $TESTDIR/xattr.tar

193 log_assert "Basic applications work with xattrs: cpio cp find mv pax tar"

```


new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_012_pos.ksh

1

```
*****
2891 Fri Nov 22 15:22:35 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_012_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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32 #
33 #
34 . $STF_SUITE/include/libtest.shlib
35 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
36 #
37 #
38 # DESCRIPTION:
39 # xattr file sizes count towards normal disk usage
40 #
41 # STRATEGY:
42 # 1. Create a file, and check pool and filesystem usage
43 # 2. Create a 200mb xattr in that file
44 # 3. Check pool and filesystem usage, to ensure it reflects the size
45 # of the xattr
46 #
47 #
48 function cleanup {
49     log_must $RM $TESTDIR/myfile.$$
50 }
51 #
52 function get_pool_size {
53     poolname=$1
54     psize=$(ZPOOL list -H -o allocated $poolname)
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_012_pos.ksh

2

```
55     if [[ $psize == *[mM] ]]
56     then
57         returnvalue=$(ECHO $psize | $SED -e 's/m//g' -e 's/M//g')
58         returnvalue=$((returnvalue * 1024))
59     else
60         returnvalue=$(ECHO $psize | $SED -e 's/k//g' -e 's/K//g')
61     fi
62     echo $returnvalue
63 }
64 #
65 log_assert "xattr file sizes count towards normal disk usage"
66 log_onexit cleanup
67 #
68 log_must $TOUCH $TESTDIR/myfile.$$
69 #
70 POOL_SIZE=0
71 NEW_POOL_SIZE=0
72 #
73 if is_global_zone
74 then
75     # get pool and filesystem sizes. Since we're starting with an empty
76     # pool, the usage should be small - a few k.
77     POOL_SIZE=$(get_pool_size $TESTPOOL)
78 fi
79 #
80 FS_SIZE=$(ZFS get -p -H -o value used $TESTPOOL/$TESTFS)
81 #
82 log_must $RUNAT $TESTDIR/myfile.$$ $MKFILE 200m xattr
83 #
84 #Make sure the newly created file is counted into zpool usage
85 log_must $SYNC
86 #
87 # now check to see if our pool disk usage has increased
88 if is_global_zone
89 then
90     NEW_POOL_SIZE=$(get_pool_size $TESTPOOL)
91     (($NEW_POOL_SIZE <= $POOL_SIZE)) && \
92         log_fail "The new pool size $NEW_POOL_SIZE was less \
93         than or equal to the old pool size $POOL_SIZE."
94 #
95 fi
96 #
97 # also make sure our filesystem usage has increased
98 NEW_FS_SIZE=$(ZFS get -p -H -o value used $TESTPOOL/$TESTFS)
99 (($NEW_FS_SIZE <= $FS_SIZE)) && \
100     log_fail "The new filesystem size $NEW_FS_SIZE was less \
101     than or equal to the old filesystem size $FS_SIZE."
102 #
103 log_pass "xattr file sizes count towards normal disk usage"
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_013_pos.ksh

1

2819 Fri Nov 22 15:22:35 2013

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_013_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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27 # Copyright (c) 2013 by Delphix. All rights reserved.
28 #
29 #
30 . $STF_SUITE/include/libtest.shlib
31 . $STF_SUITE/tests/functional/xattr/xattr_common.kshlib
32 #
33 #
34 # DESCRIPTION:
35 # The noxattr mount option functions as expected
36 #
37 # STRATEGY:
38 # 1. Create a file on a filesystem and add an xattr to it
39 # 2. Unmount the filesystem, and mount it -o noxattr
40 # 3. Verify that the xattr cannot be read and new files
41 #    cannot have xattrs set on them.
42 # 4. Unmount and mount the filesystem normally
43 # 5. Verify that xattrs can be set and accessed again
44 #
45 #
46 function cleanup {
47     log_must $RM $TESTDIR/myfile.$$
48 }
49 #
50 #
51 #
52 log_assert "The noxattr mount option functions as expected"
53 log_onexit cleanup
```

new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_013_pos.ksh

2

```
55 $ZFS set 2>&1 | $GREP xattr > /dev/null
56 if [ $? -ne 0 ]
57 then
58     log_unsupported "noxattr mount option not supported on this release."
59 fi
60 #
61 log_must $TOUCH $TESTDIR/myfile.$$
62 create_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
63 #
64 log_must $UMOUNT $TESTDIR
65 log_must $ZFS mount -o noxattr $TESTPOOL/$TESTFS
66 #
67 # check that we can't perform xattr operations
68 log_mustnot eval "$RUNAT $TESTDIR/myfile.$$ $CAT passwd > /dev/null 2>&1"
69 log_mustnot eval "$RUNAT $TESTDIR/myfile.$$ $RM passwd > /dev/null 2>&1"
70 log_mustnot eval "$RUNAT $TESTDIR/myfile.$$ $CP /etc/passwd . > /dev/null 2>&1"
71 #
72 log_must $TOUCH $TESTDIR/new.$$
73 log_mustnot eval "$RUNAT $TESTDIR/new.$$ $CP /etc/passwd . > /dev/null 2>&1"
74 log_mustnot eval "$RUNAT $TESTDIR/new.$$ $RM passwd > /dev/null 2>&1"
75 #
76 # now mount the filesystem again as normal
77 log_must $UMOUNT $TESTDIR
78 log_must $ZFS mount $TESTPOOL/$TESTFS
79 #
80 # we should still have an xattr on the first file
81 verify_xattr $TESTDIR/myfile.$$ passwd /etc/passwd
82 #
83 # there should be no xattr on the file we created while the fs was mounted
84 # -o noxattr
85 log_mustnot eval "$RUNAT $TESTDIR/new.$$ $CAT passwd > /dev/null 2>&1"
86 create_xattr $TESTDIR/new.$$ passwd /etc/passwd
87 #
88 log_pass "The noxattr mount option functions as expected"
```

```

*****
3277 Fri Nov 22 15:22:36 2013
new/usr/src/test/zfs-tests/tests/functional/xattr/xattr_common.kshlib
4206 history_003_pos relies on exact size of history log and entries
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26 #
27 #
28 # Copyright (c) 2013 by Delphix. All rights reserved.
29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 #
33 # a function that takes a file, then creates and verifies
34 # an xattr on that file. The xattr_contents is the file
35 # that should appear in the xattr namespace.
36 function create_xattr { # filename xattr_name xattr_contents
37     typeset FILE=$1
38     typeset XATTR_NAME=$2
39     typeset XATTR_CONTENTS=$3
40 #
41 # read any empty xattr on that file
42 log_must $RUNAT $FILE $LS
43 # create the xattr
44 log_must $RUNAT $FILE $CP $XATTR_CONTENTS $XATTR_NAME
45 #
46 verify_xattr $FILE $XATTR_NAME $XATTR_CONTENTS
47 }
48 #
49 # a function that compares the a single xattr between two files
50 # and checks to see if their contents are identical
51 function compare_xattrs { # filename1 filename2 xattr_name
52     typeset FILE1=$1
53     typeset FILE2=$2
54     typeset XATTR_NAME=$3

```

```

56     $RUNAT $FILE1 $CAT $XATTR_NAME > /tmp/file1.$$
57     $RUNAT $FILE2 $CAT $XATTR_NAME > /tmp/file2.$$
58 #
59 log_must $DIFF /tmp/file1.$$ /tmp/file2.$$
60 log_must $RM /tmp/file1.$$ /tmp/file2.$$
61 }
62 #
63 function verify_xattr { # filename xattr_name xattr_contents
64     typeset FILE=$1
65     typeset XATTR_NAME=$2
66     typeset XATTR_CONTENTS=$3
67 #
68 # read the xattr, writing it to a temp file
69 log_must eval "$RUNAT $FILE $CAT $XATTR_NAME > /tmp/$XATTR_NAME.$$ 2>&1"
70 log_must $DIFF $XATTR_CONTENTS /tmp/$XATTR_NAME.$$
71 $RM /tmp/$XATTR_NAME.$$
72 }
73 #
74 function delete_xattr { # filename xattr_name
75     typeset FILE=$1
76     typeset XATTR_NAME=$2
77 #
78 # delete the xattr
79 log_must $RUNAT $FILE $RM $XATTR_NAME
80 log_mustnot eval "$RUNAT $FILE $LS $XATTR_NAME > /dev/null 2>&1"
81 }
82 #
83 # not sure about this : really this should be testing write/append
84 function verify_write_xattr { # filename xattr_name
85     typeset FILE=$1
86     typeset XATTR_NAME=$2
87 #
88 log_must eval "$RUNAT $FILE $DD if=/etc/passwd of=$XATTR_NAME"
89 log_must eval "$RUNAT $FILE $CAT $XATTR_NAME > /tmp/$XATTR_NAME.$$ 2>&1"
90 log_must $DD if=/etc/passwd of=/tmp/passwd_dd.$$
91 log_must $DIFF /tmp/passwd_dd.$$ /tmp/$XATTR_NAME.$$
92 log_must $RM /tmp/passwd_dd.$$ /tmp/$XATTR_NAME.$$
93 }
94 #
95 # this function is to create the expected output
96 function create_expected_output { # expected_output_file contents_of_the_output
97     typeset FILE=$1
98     shift
99     if [[ -f $FILE ]]; then
100         log_must $RM $FILE
101     fi
102 #
103 for line in $@
104 do
105     log_must eval "$ECHO $line >> $FILE"
106 done
107 }

```

new/usr/src/test/zfs-tests/tests/functional/zvol/Makefile

1

910 Fri Nov 22 15:22:36 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 .PARALLEL: $(SUBDIRS)
```

```
18 include $(SRC)/Makefile.master
```

```
20 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
21 TESTDIR = $(ROOTOPTPKG)/tests/functional/zvol
```

```
23 FILES = zvol.cfg \
```

```
24     zvol_common.shlib
```

```
26 CMDS = $(FILES:%=$(TESTDIR)/%)
```

```
27 $(CMDS) := FILEMODE = 0555
```

```
29 all lint clean clobber:
```

```
31 install: $(CMDS)
```

```
33 $(CMDS): $(TESTDIR)
```

```
35 $(TESTDIR):
```

```
36     $(INS.dir)
```

```
38 $(TESTDIR)/%: %
```

```
39     $(INS.file)
```

```
41 SUBDIRS = zvol_ENOSPC \
```

```
42     zvol_cli \
```

```
43     zvol_misc \
```

```
44     zvol_swap
```

```
46 include $(SRC)/test/Makefile.com
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol.cfg

1

1109 Fri Nov 22 15:22:37 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol.cfg

4206 history_003_pos relies on exact size of history log and entries

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29 #
30 #
31 export DISK=${DISKS%% *}
32 #
33 export TESTVOL=testvol
34 export TESTFILE=testfile
35 export TESTSNAP=testsnap
36 export VOLSIZE=2g
37 export DATA=0
38 export ENOSPC=28
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/Makefile

1

850 Fri Nov 22 15:22:37 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>

Reviewed by: Will Guyette <will.guyette@delphix.com>

Reviewed by: Eric Diven <eric.diven@delphix.com>

Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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```

```
12 #
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/zvol/zvol_ENOSPC
```

```
21 PROGS = cleanup \
22         setup \
23         zvol_ENOSPC_001_pos
```

```
25 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
26 $(CMDS) := FILEMODE = 0555
```

```
28 all lint clean clobber:
```

```
30 install: $(CMDS)
```

```
32 $(CMDS): $(TESTDIR)
```

```
34 $(TESTDIR):
```

```
35     $(INS.dir)
```

```
37 $(TESTDIR)/%: %
```

```
38     $(INS.file)
```

```
40 $(TESTDIR)/%: %.ksh
```

```
41     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/cleanup.ksh

1

1235 Fri Nov 22 15:22:37 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 verify_runnable "global"
36 #
37 ismounted $TESTDIR ufs
38 (( $? == 0 )) && log_must $MOUNT -f $TESTDIR
39 #
40 [[ -e $TESTDIR ]] && $RM -rf $TESTDIR
41 #
42 default_zvol_cleanup
43 #
44 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/setup.ksh

1

1363 Fri Nov 22 15:22:38 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 verify_runnable "global"
36 #
37 default_zvol_setup $DISK $VOLSIZE
38 #
39 $ECHO "y" | $NEWFS -v /dev/zvol/rdisk/$TESTPOOL/$TESTVOL >/dev/null 2>&1
40 (( $? != 0 )) && log_fail "Unable to newfs(1M) $TESTPOOL/$TESTVOL"
41 #
42 log_must $MKDIR $TESTDIR
43 log_must $MOUNT /dev/zvol/dsk/$TESTPOOL/$TESTVOL $TESTDIR
44 #
45 log_pass
```


new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/zvol_ENOSPC_001_pos 1

```
*****
1985 Fri Nov 22 15:22:38 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/zvol_ENOSPC_001_pos
.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol.cfg
34 #
35 #
36 # DESCRIPTION:
37 # A zvol volume will return ENOSPC when the underlying pool runs out of
38 # space.
39 #
40 # STRATEGY:
41 # 1. Create a pool
42 # 2. Create a zvol volume
43 # 3. Create a ufs file system ontop of the zvol
44 # 4. Mount the ufs file system
45 # 5. Fill volume until ENOSPC is returned
46 #
47 #
48 verify_runnable "global"
49 #
50 function cleanup
51 {
52     $RM -rf $TESTDIR/*
53 }
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_ENOSPC/zvol_ENOSPC_001_pos 2

```
55 log_assert "A zvol volume will return ENOSPC when the underlying pool " \
56     "runs out of space."
57 #
58 log_onexit cleanup
59 #
60 typeset -i fn=0
61 typeset -i retval=0
62 #
63 BLOCKSZ=$(( 1024 * 1024 ))
64 NUM_WRITES=40
65 #
66 while (( 1 )); do
67     $FILE_WRITE -o create -f $TESTDIR/testfile$$.$fn \
68         -b $BLOCKSZ -c $NUM_WRITES
69     retval=$?
70     if (( $retval != 0 )); then
71         break
72     fi
73 #
74     (( fn = fn + 1 ))
75 done
76 #
77 (( $retval != $ENOSPC )) &&
78     log_fail "ENOSPC was not returned, $retval was received instead"
79 #
80 log_pass "ENOSPC was returned as expected"
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/Makefile

1

930 Fri Nov 22 15:22:38 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/zvol/zvol_cli
```

```
21 PROGS = cleanup \
22         setup \
23         zvol_cli_001_pos \
24         zvol_cli_002_pos \
25         zvol_cli_003_neg
```

```
27 FILES = zvol_cli.cfg
```

```
29 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
30 $(CMDS) := FILEMODE = 0555
```

```
32 all lint clean clobber:
```

```
34 install: $(CMDS)
```

```
36 $(CMDS): $(TESTDIR)
```

```
38 $(TESTDIR):
39     $(INS.dir)
```

```
41 $(TESTDIR)/%: %
42     $(INS.file)
```

```
44 $(TESTDIR)/%: %.ksh
45     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/cleanup.ksh

1

1126 Fri Nov 22 15:22:39 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 verify_runnable "global"
36 #
37 default_zvol_cleanup
38 #
39 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/setup.ksh

1

1139 Fri Nov 22 15:22:39 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/setup.ksh

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 verify_runnable "global"
36 #
37 default_zvol_setup $DISK $VOLSIZE
38 #
39 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_001_pos.ksh 1

1876 Fri Nov 22 15:22:39 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_001_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Executing well-formed 'zfs list' commands should return success
37 #
38 # STRATEGY:
39 # 1. Create an array of valid options.
40 # 2. Execute each element in the array.
41 # 3. Verify success is returned.
42 #
43 #
44 verify_runnable "global"
45 #
46 TESTVOL='testvol'
47 #
48 set -A args "list" "list -r" \
49 "list $TESTPOOL/$TESTVOL" "list -r $TESTPOOL/$TESTVOL" \
50 "list -H $TESTPOOL/$TESTVOL" "list -Hr $TESTPOOL/$TESTVOL" \
51 "list -rH $TESTPOOL/$TESTVOL" "list -o name $TESTPOOL/$TESTVOL" \
52 "list -r -o name $TESTPOOL/$TESTVOL" "list -H -o name $TESTPOOL/$TESTVOL" \
53 "list -rH -o name $TESTPOOL/$TESTVOL"
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_001_pos.ksh 2

```
55 log_assert "Executing well-formed 'zfs list' commands should return success"
```

```
57 typeset -i i=0
58 while (( $i < ${#args[*]} )); do
59     log_must eval "$ZFS ${args[i]} > /dev/null"
60     ((i = i + 1))
61 done
```

```
63 log_pass "Executing zfs list on volume works as expected"
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_002_pos.ksh 1

```
*****
1642 Fri Nov 22 15:22:40 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Creating a volume with a 50 letter name should work.
37 #
38 # STRATEGY:
39 # 1. Using a very long name, create a zvol
40 # 2. Verify volume exists
41 #
42 #
43 verify_runnable "global"
44 #
45 function cleanup
46 {
47     datasetexists $TESTPOOL/$LONGVOLNAME && \
48         $ZFS destroy $TESTPOOL/$LONGVOLNAME
49 }
50 #
51 log_onexit cleanup
52 #
53 log_assert "Creating a volume a 50 letter name should work."
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_002_pos.ksh 2

```
55 LONGVOLNAME="volumename50charslong_0123456789012345678901234567"
57 log_must $ZFS create -V $VOLSIZE $TESTPOOL/$LONGVOLNAME
58 #
59 datasetexists $TESTPOOL/$LONGVOLNAME || \
60     log_fail "Couldn't find long volume name"
61 #
62 log_pass "Created a 50-letter zvol volume name"
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_003_neg.ksh 1

```
*****
1682 Fri Nov 22 15:22:40 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_003_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Try each ZFS volume sub-command without parameters to make sure
37 # it returns an error.
38 #
39 # STRATEGY:
40 # 1. Create an array of parameters
41 # 2. For each parameter in the array, execute the sub-command
42 # 3. Verify an error is returned.
43 #
44 #
45 verify_runnable "global"
46 #
47 set -A args "" "create -v" "create -v $TESTPOOL" \
48     "create -v $TESTPOOL/$TESTVOL@" "create -v blah" "destroy"
49 #
50 log_assert "Try each ZFS volume sub-command without parameters to make sure" \
51     " it returns an error."
52 #
53 typeset -i i=0
54 while (( $i < ${#args[*]} )); do
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_cli/zvol_cli_003_neg.ksh 2

```
55     log_mustnot $ZFS ${args[i]}
56     (( i = i + 1 ))
57 done
58 #
59 log_pass "Badly formed ZFS volume sub-commands fail as expected."
```

```
*****
```

```
3040 Fri Nov 22 15:22:40 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_common.shlib
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
*****
```

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29 #
30 #
31 . $STF_SUITE/include/libtest.shlib
32 . $STF_SUITE/tests/functional/zvol/zvol.cfg
33 #
34 # Create a simple zvol volume
35 #
36 #
37 # Where disk_device: is the name of the disk to be used
38 # volume_size: is the size of the volume, e.g. 2G
39 #
40 function default_zvol_setup # disk_device volume_size
41 {
42     typeset disk=$1
43     typeset size=$2
44     typeset savedumpdev
45     typeset -i output
46
47     create_pool $TESTPOOL "$disk"
48
49     log_must $ZFS create -V $size $TESTPOOL/$TESTVOL
50
51     set_dumpsizesize $TESTPOOL/$TESTVOL
52 }
53 #
54 #
```

```
55 # Destroy the default zvol which was setup using
56 # default_zvol_setup().
57 #
58 function default_zvol_cleanup
59 {
60     if datasetexists $TESTPOOL/$TESTVOL ; then
61         log_must $ZFS destroy $TESTPOOL/$TESTVOL
62     fi
63
64     destroy_pool $TESTPOOL
65 }
66 #
67 function get_dumpdevice
68 {
69     typeset ret=$(DUMPADM | $GREP "Dump device:" | $AWK '{print $3}')
70     echo $ret
71 }
72 #
73 function set_dumpsizesize
74 {
75     typeset volume=$1
76
77     if [[ -z $volume ]] ; then
78         log_note "No volume specified."
79         return 1
80     fi
81
82     log_must $ZFS set volsize=64m $volume
83
84     output=$(DUMPADM -d /dev/zvol/dsk/$volume 2>&1 | \
85         $TAIL -1 | $AWK '{print $3}')
86
87     if [[ -n $output ]] ; then
88         (( output = output / 1024 / 1024 ))
89         (( output = output + output / 5 ))
90         log_must $ZFS set volsize=${output}m $volume
91     fi
92     return 0
93 }
94 #
95 function safe_dumpadm
96 {
97     typeset device=$1
98
99     if [[ -z $device || $device == "none" ]] ; then
100         log_note "No dump device volume specified."
101         return 1
102     fi
103     if [[ $device == "/dev/zvol/dsk/*" ]] ; then
104         typeset volume=${device#/dev/zvol/dsk/}
105         set_dumpsizesize $volume
106         log_must $DUMPADM -d $device
107     else
108         log_must $SWAPADD
109         if ! is_swap_inuse $device ; then
110             log_must $SWAP -a $device
111         fi
112         log_must $DUMPADM -d swap
113     fi
114 }
115 #
116 function is_zvol_dumpified
117 {
118     typeset volume=$1
119
120     if [[ -z $volume ]] ; then
```



```
121         log_note "No volume specified."
122         return 1
123     fi
124
125     $ZDB -dddd $volume 2 | $GREP "dumpsize" > /dev/null 2>&1
126     return $?
127 }
128
129 function is_swap_inuse
130 {
131     typeset device=$1
132
133     if [[ -z $device ]] ; then
134         log_note "No device specified."
135         return 1
136     fi
137
138     $SWAP -l | $GREP -w $device > /dev/null 2>&1
139     return $?
140 }
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/Makefile

1

951 Fri Nov 22 15:22:41 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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Reviewed by: Christopher Siden <christopher.siden@delphix.com>

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```

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```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/zvol/zvol_misc
```

```
21 PROGS = cleanup \
22         setup \
23         zvol_misc_001_neg \
24         zvol_misc_002_pos \
25         zvol_misc_003_neg \
26         zvol_misc_004_pos \
27         zvol_misc_005_neg \
28         zvol_misc_006_pos
```

```
30 CMDS = $(PROGS:%=$(TESTDIR)/%)
```

```
31 $(CMDS) := FILEMODE = 0555
```

```
33 all lint clean clobber:
```

```
35 install: $(CMDS)
```

```
37 $(CMDS): $(TESTDIR)
```

```
39 $(TESTDIR):
```

```
40     $(INS.dir)
```

```
42 $(TESTDIR)/%: %
```

```
43     $(INS.file)
```

```
45 $(TESTDIR)/%: %.ksh
```

```
46     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/cleanup.ksh 1

1126 Fri Nov 22 15:22:41 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 verify_runnable "global"
36 #
37 default_zvol_cleanup
38 #
39 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/setup.ksh

1

1246 Fri Nov 22 15:22:42 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 verify_runnable "global"
36 #
37 if ! $(is_physical_device $DISKS) ; then
38     log_unsupported "This directory cannot be run on raw files."
39 fi
40 #
41 default_zvol_setup $DISK $VOLSIZE
42 #
43 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_001_neg.ksh 1

1660 Fri Nov 22 15:22:42 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_001_neg.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

4209 Populate zfstest with the remainder of the STF tests

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify that using a zvol as a dump device works.
38 #
39 # STRATEGY:
40 # 1. Create a ZFS volume
41 # 2. Use dumpadm add the volume as dump device
42 # 3. Verify the return code as expected.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     typeset dumpdev=$(get_dumpdevice)
50 #
51     if [[ $dumpdev != $savedumpdev ]] ; then
52         safe_dumpadm $savedumpdev
53     fi
54 }
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_001_neg.ksh 2

56 log_assert "Verify that a ZFS volume can act as dump device."

57 log_onexit cleanup

59 voldev=/dev/zvol/dsk/\$TESTPOOL/\$TESTVOL

60 savedumpdev=\$(get_dumpdevice)

62 safe_dumpadm \$voldev

64 log_pass "Verify that a ZFS volume can act as dump device."

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_002_pos.ksh 1

```
*****
2364 Fri Nov 22 15:22:42 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_002_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 # Verify that ZFS volume snapshot could be fscked
37 #
38 # STRATEGY:
39 # 1. Create a ZFS volume
40 # 2. Copy some files and create snapshot
41 # 3. Verify fsck on the snapshot is OK
42 #
43 #
44 verify_runnable "global"
45 #
46 function cleanup
47 {
48     snapexists $TESTPOOL/$TESTVOL@snap && \
49         $ZFS destroy $TESTPOOL/$TESTVOL@snap
50 #
51     ismounted $TESTDIR ufs
52     (( $? == 0 )) && log_must $UMOUNT $TESTDIR
53 #
54     [[ -e $TESTDIR ]] && $RM -rf $TESTDIR

```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_002_pos.ksh 2

```
55 }
56 #
57 log_assert "Verify that ZFS volume snapshot could be fscked"
58 log_onexit cleanup
59 #
60 TESTVOL='testvol'
61 BLOCKSZ=$(( 1024 * 1024 ))
62 NUM_WRITES=40
63 #
64 $ECHO "y" | $NEWFS -v /dev/zvol/rdisk/$TESTPOOL/$TESTVOL >/dev/null 2>&1
65 (( $? != 0 )) && log_fail "Unable to newfs(1M) $TESTPOOL/$TESTVOL"
66 #
67 log_must $MKDIR $TESTDIR
68 log_must $MOUNT /dev/zvol/dsk/$TESTPOOL/$TESTVOL $TESTDIR
69 #
70 typeset -i fn=0
71 typeset -i retval=0
72 #
73 while (( 1 )); do
74     $FILE_WRITE -o create -f $TESTDIR/testfile$$.$fn \
75         -b $BLOCKSZ -c $NUM_WRITES
76     retval=$?
77     if (( $retval != 0 )); then
78         break
79     fi
80     (( fn = fn + 1 ))
81 done
82 #
83 #
84 log_must $LOCKFS -f $TESTDIR
85 log_must $ZFS snapshot $TESTPOOL/$TESTVOL@snap
86 #
87 $FSCK -n /dev/zvol/rdisk/$TESTPOOL/$TESTVOL@snap >/dev/null 2>&1
88 retval=$?
89 (( $retval == 39 )) || log_fail "$FSCK exited with wrong value $retval "
90 #
91 log_pass "Verify that ZFS volume snapshot could be fscked"

```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_003_neg.ksh 1

```
*****
1992 Fri Nov 22 15:22:43 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_003_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 #   Verify creating a storage pool or running newfs on a zvol used as a
38 #   dump device is denied.
39 #
40 # STRATEGY:
41 # 1. Create a ZFS volume
42 # 2. Use dumpadm to set the volume as dump device
43 # 3. Verify creating a pool & running newfs on the zvol returns an error.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     typeset dumpdev=$(get_dumpdevice)
51     if [[ $dumpdev != $savedumpdev ]] ; then
52         safe_dumpadm $savedumpdev
53     fi
54 }
55 #
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_003_neg.ksh 2

```
55     if poolexists $TESTPOOL1 ; then
56         destroy_pool $TESTPOOL1
57     fi
58 }
59 #
60 log_assert "Verify zpool creation and newfs on dump zvol is denied."
61 log_onexit cleanup
62 #
63 voldev=/dev/zvol/dsk/$TESTPOOL/$TESTVOL
64 savedumpdev=$(get_dumpdevice)
65 #
66 safe_dumpadm $voldev
67 #
68 $ECHO "y" | $NEWFS -v $voldev > /dev/null 2>&1
69 if (( $? == 0 )) ; then
70     log_fail "newfs on dump zvol succeeded unexpectedly"
71 fi
72 #
73 log_mustnot $ZPOOL create $TESTPOOL1 $voldev
74 #
75 log_pass "Verify zpool creation and newfs on dump zvol is denied."
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_004_pos.ksh 1

```
*****
2759 Fri Nov 22 15:22:43 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 # Verify the ability to take snapshots of zvols used as dump or swap.
38 #
39 # STRATEGY:
40 # 1. Create a ZFS volume
41 # 2. Set the volume as dump or swap
42 # 3. Verify creating a snapshot of the zvol succeeds.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     typeset dumpdev=$(get_dumpdevice)
50     if [[ $dumpdev != $savedumpdev ]] ; then
51         safe_dumpadm $savedumpdev
52     fi
53 #
54     $$SWAP -l | $GREP -w $voldev > /dev/null 2>&1
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_004_pos.ksh 2

```
55     if (( $? == 0 )) ; then
56         log_must $$SWAP -d $voldev
57     fi
58 #
59     typeset snap
60     for snap in snap0 snap1 ; do
61         if datasetexists $TESTPOOL/$TESTVOL@$snap ; then
62             log_must $ZFS destroy $TESTPOOL/$TESTVOL@$snap
63         fi
64     done
65 }
66 #
67 function verify_snapshot
68 {
69     typeset volume=$1
70 #
71     log_must $ZFS snapshot $volume@snap0
72     log_must $ZFS snapshot $volume@snap1
73     log_must datasetexists $volume@snap0 $volume@snap1
74 #
75     log_must $ZFS destroy $volume@snap1
76     log_must $ZFS snapshot $volume@snap1
77 #
78     log_mustnot $ZFS rollback -r $volume@snap0
79     log_must datasetexists $volume@snap0
80 #
81     log_must $ZFS destroy -r $volume@snap0
82 }
83 #
84 log_assert "Verify the ability to take snapshots of zvols used as dump or swap."
85 log_onexit cleanup
86 #
87 voldev=/dev/zvol/dsk/$TESTPOOL/$TESTVOL
88 savedumpdev=$(get_dumpdevice)
89 #
90 # create snapshot over dump zvol
91 safe_dumpadm $voldev
92 log_must is_zvol_dumpified $TESTPOOL/$TESTVOL
93 #
94 verify_snapshot $TESTPOOL/$TESTVOL
95 #
96 safe_dumpadm $savedumpdev
97 log_mustnot is_zvol_dumpified $TESTPOOL/$TESTVOL
98 #
99 # create snapshot over swap zvol
100 #
101 log_must $$SWAP -a $voldev
102 log_mustnot is_zvol_dumpified $TESTPOOL/$TESTVOL
103 #
104 verify_snapshot $TESTPOOL/$TESTVOL
105 #
106 log_must $$SWAP -d $voldev
107 log_mustnot is_zvol_dumpified $TESTPOOL/$TESTVOL
108 #
109 log_pass "Creating snapshots from dump/swap zvols succeeds."
```


new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_005_neg.ksh 1

```
*****
2003 Fri Nov 22 15:22:43 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_005_neg.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
Reviewed by: Christopher Siden <christopher.siden@delphix.com>
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30 #
31 #
32 # . $STF_SUITE/include/libtest.shlib
33 # . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 #     Verify a device cannot be dump and swap at the same time.
38 #
39 # STRATEGY:
40 # 1. Create a ZFS volume
41 # 2. Set it as swap device.
42 # 3. Verify dumpadm with this zvol will fail.
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     $SWAP -l | $GREP $voldev > /dev/null 2>&1
50     if (( $? == 0 )) ; then
51         log_must $SWAP -d $voldev
52     fi
53 #
54 typeset dumpdev=$(get_dumpdevice)
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_005_neg.ksh 2

```
55     if [[ $dumpdev != $savedumpdev ]] ; then
56         safe_dumpadm $savedumpdev
57     fi
58 }
59 #
60 log_assert "Verify a device cannot be dump and swap at the same time."
61 log_onexit cleanup
62 #
63 voldev=/dev/zvol/dsk/$TESTPOOL/$TESTVOL
64 savedumpdev=$(get_dumpdevice)
65 #
66 # If device in swap list, it cannot be dump device
67 log_must $SWAP -a $voldev
68 log_mustnot $DUMPADM -d $voldev
69 log_must $SWAP -d $voldev
70 #
71 # If device has dedicated as dump device, it cannot add into swap list
72 safe_dumpadm $voldev
73 log_mustnot $SWAP -a $voldev
74 #
75 log_pass "A device cannot be dump and swap at the same time."
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_006_pos.ksh 1

```
*****
2002 Fri Nov 22 15:22:44 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 # ZFS volume as dump device, it should always have 128k volblocksize
38 #
39 # STRATEGY:
40 # 1. Create a ZFS volume
41 # 2. Use dumpadm set the volume as dump device
42 # 3. Verify the volume's volblocksize=128k
43 #
44 #
45 verify_runnable "global"
46 #
47 function cleanup
48 {
49     typeset dumpdev=$(get_dumpdevice)
50     if [[ $dumpdev != $savedumpdev ]] ; then
51         safe_dumpadm $savedumpdev
52     fi
53 }
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_misc/zvol_misc_006_pos.ksh 2

```
55 log_assert "zfs volume as dumpdevice should have 128k volblocksize"
56 log_onexit cleanup
57 #
58 voldev=/dev/zvol/dsk/$TESTPOOL/$TESTVOL
59 savedumpdev=$(get_dumpdevice)
60 #
61 typeset oblksize=$((ZFS get -H -o value volblocksize $TESTPOOL/$TESTVOL)
62 log_note "original $TESTPOOL/$TESTVOL volblocksize=$oblksize"
63 #
64 safe_dumpadm $voldev
65 #
66 typeset blksize=$((ZFS get -H -o value volblocksize $TESTPOOL/$TESTVOL)
67 #
68 if [[ $blksize != "128K" ]]; then
69     log_fail "ZFS volume $TESTPOOL/$TESTVOL volblocksize=$blksize"
70 fi
71 #
72 log_pass "zfs volume as dumpdevice should have 128k volblocksize"
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/Makefile

1

998 Fri Nov 22 15:22:44 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/Makefile

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

4208 Typo in zfs_main.c: "posxiuser"

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```

```
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14 #
```

```
16 include $(SRC)/Makefile.master
```

```
18 ROOTOPTPKG = $(ROOT)/opt/zfs-tests
```

```
19 TESTDIR = $(ROOTOPTPKG)/tests/functional/zvol/zvol_swap
```

```
21 PROGS = cleanup \
22         setup \
23         zvol_swap_001_pos \
24         zvol_swap_002_pos \
25         zvol_swap_003_pos \
26         zvol_swap_004_pos \
27         zvol_swap_005_pos \
28         zvol_swap_006_pos
```

```
30 FILES = zvol_swap.cfg
```

```
32 CMDS = $(PROGS:%=$(TESTDIR)/%) $(FILES:%=$(TESTDIR)/%)
```

```
33 $(CMDS) := FILEMODE = 0555
```

```
35 all lint clean clobber:
```

```
37 install: $(CMDS)
```

```
39 $(CMDS): $(TESTDIR)
```

```
41 $(TESTDIR):
```

```
42     $(INS.dir)
```

```
44 $(TESTDIR)/%: %
```

```
45     $(INS.file)
```

```
47 $(TESTDIR)/%: %.ksh
```

```
48     $(INS.rename)
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/cleanup.ksh 1

1429 Fri Nov 22 15:22:44 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/cleanup.ksh

4206 history_003_pos relies on exact size of history log and entries

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 . $STF_SUITE/tests/functional/zvol/zvol_swap/zvol_swap.cfg
35 #
36 verify_runnable "global"
37 #
38 log_must $SWAPADD
39 for swapdev in $SAVESWAPDEVS
40 do
41     if ! is_swap_inuse $swapdev ; then
42         log_must $SWAP -a $swapdev >/dev/null 2>&1
43     fi
44 done
45 #
46 voldev=/dev/zvol/dsk/$TESTPOOL/$TESTVOL
47 if is_swap_inuse $voldev ; then
48     log_must $SWAP -d $voldev
49 fi
50 #
51 default_zvol_cleanup
52 #
53 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/setup.ksh

1

1408 Fri Nov 22 15:22:45 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/setup.ksh

4206 history_003_pos relies on exact size of history log and entries

4207 history_008_pos depends on obsolete internal history log message

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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 . $STF_SUITE/tests/functional/zvol/zvol_swap/zvol_swap.cfg
35 #
36 verify_runnable "global"
37 #
38 for i in $SAVESWAPDEVS ; do
39     log_note "Executing: swap -d $i"
40     $SWAP -d $i >/dev/null 2>&1
41     if [[ $? != 0 ]]; then
42         log_untested "Unable to delete swap device $i because of" \
43             "insufficient RAM"
44     fi
45 done
46 #
47 default_zvol_setup $DISK $VOLSIZE
48 #
49 log_pass
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap.cfg

1

1166 Fri Nov 22 15:22:45 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap.cfg

4206 history_003_pos relies on exact size of history log and entries

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29 #
30 #
31 . $STF_SUITE/tests/functional/zvol/zvol.cfg
32 #
33 #
34 # Remember swap devices
35 #
36 SAVESWAPDEVS=${$SWAP -1 | $NAWK '(NR != 1) {print $1}'}
37 #
38 export BLOCKSZ=$(( 1024 * 1024 ))
39 export NUM_WRITES=40
40 export SAVESWAPDEVS
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_001_pos.ksh 1

```
*****
2093 Fri Nov 22 15:22:45 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_001_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 . $STF_SUITE/tests/functional/zvol/zvol_swap/zvol_swap.cfg
35 #
36 #
37 # DESCRIPTION:
38 # Verify that a zvol can be used as a swap device
39 #
40 # STRATEGY:
41 # 1. Create a pool
42 # 2. Create a zvol volume
43 # 3. Use zvol as swap space
44 # 4. Create a file under /tmp
45 #
46 #
47 verify_runnable "global"
48 #
49 function cleanup
50 {
51     $RM -rf /tmp/$TESTFILE
52 #
53     if is_swap_inuse $voldev ; then
54         log_must $SWAP -d $voldev
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_001_pos.ksh 2

```
55     fi
56 }
57 #
58 log_assert "Verify that a zvol can be used as a swap device"
59 #
60 log_onexit cleanup
61 #
62 voldev=/dev/zvol/dsk/$TESTPOOL/$TESTVOL
63 log_note "Add zvol volume as swap space"
64 log_must $SWAP -a $voldev
65 #
66 log_note "Create a file under /tmp"
67 log_must $FILE_WRITE -o create -f /tmp/$TESTFILE \
68     -b $BLOCKSZ -c $NUM_WRITES -d $DATA
69 #
70 [[ ! -f /tmp/$TESTFILE ]] &&
71     log_fail "Unable to create file under /tmp"
72 #
73 filesize=`ls -l /tmp/$TESTFILE | $AWK '{print $5}'`
74 tf_size=$(( BLOCKSZ * NUM_WRITES ))
75 (( $tf_size != $filesize )) &&
76     log_fail "testfile is ($filesize bytes), expected ($tf_size bytes)"
77 #
78 log_pass "Successfully added a zvol to swap area."
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_002_pos.ksh 1

1977 Fri Nov 22 15:22:46 2013

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_002_pos.ksh

4206 history_003_pos relies on exact size of history log and entries

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29 # Copyright (c) 2013 by Delphix. All rights reserved.
30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 #     Add a swap zvol, and consume most (not all) of the space. This test
38 #     used to fill up swap, which can hang the system.
39 #
40 # STRATEGY:
41 #     1. Create a new zvol and add it as swap
42 #     2. Fill /tmp with 80% the size of the zvol
43 #     5. Remove the new zvol, and restore original swap devices
44 #
45 #
46 verify_runnable "global"
47 log_assert "Using a zvol as swap space, fill /tmp to 80%."
48 #
49 vol=$TESTPOOL/$TESTVOL
50 swapdev=/dev/zvol/dsk/$vol
51 log_must $SWAP -a $swapdev
52 #
53 # Get 80% of the number of 512 blocks in the zvol
54 typeset -i count blks volsize=$(get_prop volsize $vol)
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_002_pos.ksh 2

```
55 ((blks = (volsize / 512) * 80 / 100))
56 # Use 'blks' to determine a count for dd based on a 1M block size.
57 ((count = blks / 2048))
58 #
59 log_note "Fill 80% of swap"
60 log_must $DD if=/dev/urandom of=/tmp/$TESTFILE bs=1048576 count=$count
61 log_must $RM -f /tmp/$TESTFILE
62 log_must $SWAP -d $swapdev
63 #
64 log_pass "Using a zvol as swap space, fill /tmp to 80%."
```


new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_003_pos.ksh 1

```
*****
2948 Fri Nov 22 15:22:46 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_003_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
Reviewed by: Sonu Pillai <sonu.pillai@delphix.com>
Reviewed by: Will Guyette <will.guyette@delphix.com>
Reviewed by: Eric Diven <eric.diven@delphix.com>
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32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 . $STF_SUITE/tests/functional/zvol/zvol_swap/zvol_swap.cfg
35 #
36 #
37 # DESCRIPTION:
38 # Verify that a zvol device can be used as a swap device
39 # through /etc/vfstab configuration.
40 #
41 # STRATEGY:
42 # 1. Modify /etc/vfstab to add the test zvol as swap device.
43 # 2. Use /sbin/swapadd to add zvol as swap device through /etc/vfstab
44 # 3. Create a file under /tmp and verify the file
45 #
46 #
47 verify_runnable "global"
48 #
49 function cleanup
50 {
51     [[ -f /tmp/$TESTFILE ]] && log_must $RM -f /tmp/$TESTFILE
52     [[ -f $NEW_VFSTAB_FILE ]] && log_must $RM -f $NEW_VFSTAB_FILE
53     [[ -f $PREV_VFSTAB_FILE ]] && \
54         log_must $MV $PREV_VFSTAB_FILE $VFSTAB_FILE

```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_003_pos.ksh 2

```
55     [[ -f $PREV_VFSTAB_FILE ]] && $RM -f $PREV_VFSTAB_FILE
56 #
57     log_must $SWAPADD $VFSTAB_FILE
58 #
59     if is_swap_inuse $voldev ; then
60         log_must $SWAP -d $voldev
61     fi
62 }
63 #
64 #
65 log_assert "Verify that a zvol device can be used as a swap device" \
66     "through /etc/vfstab configuration."
67 #
68 log_onexit cleanup
69 #
70 voldev=/dev/zvol/dsk/$TESTPOOL/$TESTVOL
71 VFSTAB_FILE=/etc/vfstab
72 NEW_VFSTAB_FILE=/var/tmp/zvol_vfstab.$$
73 PREV_VFSTAB_FILE=/var/tmp/zvol_vfstab.PREV.$$
74 #
75 [[ -f $NEW_VFSTAB_FILE ]] && $CP /dev/null $NEW_VFSTAB_FILE
76 #
77 $AWK '{if ($4 != "swap") print $1}' /etc/vfstab > $NEW_VFSTAB_FILE
78 $ECHO "$voldev\t-\t-\tswap\t-\tno\t-" >> $NEW_VFSTAB_FILE
79 #
80 # Copy off the original vfstab, and run swapadd on the newly constructed one.
81 log_must $CP $VFSTAB_FILE $PREV_VFSTAB_FILE
82 log_must $CP $NEW_VFSTAB_FILE $VFSTAB_FILE
83 log_must $SWAPADD $VFSTAB_FILE
84 #
85 log_must $FILE_WRITE -o create -f /tmp/$TESTFILE \
86     -b $BLOCKSZ -c $NUM_WRITES -d $DATA
87 #
88 [[ ! -f /tmp/$TESTFILE ]] &&
89     log_fail "Unable to create file under /tmp"
90 #
91 filesize=$(ls -l /tmp/$TESTFILE | $AWK '{print $5}')
92 tf_size=$((BLOCKSZ * NUM_WRITES))
93 (($tf_size != $filesize)) && \
94     log_fail "testfile is ($filesize bytes), expected ($tf_size bytes)"
95 #
96 log_pass "Successfully added a zvol to swap area through /etc/vfstab."

```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_004_pos.ksh 1

```
*****
2502 Fri Nov 22 15:22:46 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_004_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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30 #
31 #
32 . $STF_SUITE/include/libtest.shlib
33 #
34 #
35 # DESCRIPTION:
36 #     When a swap zvol is added it is resized to be equal to 1/4 c_max,
37 #     capped between 2G and 16G.
38 #
39 # STRATEGY:
40 #     1. Determine what 1/4 arc_c_max is.
41 #     2. Create a zvols in a variety of sizes.
42 #     3. Add them as swap, and verify the volsize is resized correctly.
43 #
44 #
45 verify_runnable "global"
46 #
47 log_assert "For an added swap zvol, (2G <= volsize <= 16G)"
48 #
49 typeset -i min max mem
50 ((mem = ${SKSTAT -p ::arcstats:c_max | $AWK '{print $2}' } / 4))
51 ((min = 2 * 1024 * 1024 * 1024))
52 ((max = 16 * 1024 * 1024 * 1024))
53 #
54 for vbs in 512 1024 2048 4096 8192 16384 32768 65536 131072; do
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_004_pos.ksh 2

```
55     for multiplier in 1 32 16384 131072; do
56         ((volsize = vbs * multiplier))
57         vol="$TESTPOOL/vol_$volsize"
58         swapname="/dev/zvol/dsk/$vol"
59
60         # Create a sparse volume to test larger sizes
61         log_must $ZFS create -s -b $vbs -V $volsize $vol
62         log_must $SWAP -a $swapname
63
64         if ((mem <= min)); then # volsize should be 2G
65             new_volsize=$(get_prop volsize $vol)
66             ((new_volsize == min)) || log_fail \
67                 "Unexpected volsize: $new_volsize"
68         elif ((mem >= max)); then # volsize should be 16G
69             new_volsize=$(get_prop volsize $vol)
70             ((new_volsize == max)) || log_fail \
71                 "Unexpected volsize: $new_volsize"
72         else # volsize should be 'mem'
73             new_volsize=$(get_prop volsize $vol)
74             ((new_volsize == mem)) || log_fail \
75                 "Unexpected volsize: $new_volsize"
76         fi
77
78         log_must $SWAP -d $swapname
79         log_must $ZFS destroy $vol
80     done
81 done
82 #
83 log_pass "For an added swap zvol, (2G <= volsize <= 16G)"
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_005_pos.ksh 1

```
*****
2068 Fri Nov 22 15:22:47 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_005_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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32 # $STF_SUITE/include/libtest.shlib
33 # $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 #     swaplow + swaplen must be less than or equal to the volume size.
38 #
39 # STRATEGY:
40 #     1. Get test system page size and test volume size.
41 #     2. Random get swaplow and swaplen.
42 #     3. Verify swap -a should succeed when swaplow + swaplen <= volume size.
43 #
44 #
45 verify_runnable "global"
46 #
47 assertion="Verify the sum of swaplow and swaplen is less or equal to volsize"
48 log_assert $assertion
49 #
50 typeset vol=$TESTPOOL/$TESTVOL
51 typeset swapname="/dev/zvol/dsk/$vol"
52 typeset -i pageblocks volblocks max_swaplow
53 #
54 # Both swaplow and swaplen are the desired length of
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_005_pos.ksh 2

```
55 # the swap area in 512-byte blocks.
56 #
57 ((pageblocks = $($PAGESIZE) / 512))
58 ((volblocks = $(get_prop volsize $vol) / 512))
59 ((max_swaplow = (volblocks - (pageblocks * 2))))
60 #
61 for i in {0..10}; do
62     swaplow=$(SSHUF -n 1 -i ${pageblocks}-${max_swaplow})
63     ((maxlen = max_swaplow - swaplow))
64     swaplen=$(SSHUF -n 1 -i ${pageblocks}-${maxlen})
65     log_must $SWAP -a $swapname $swaplow $swaplen
66     log_must $SWAP -d $swapname $swaplow
67 done
68 #
69 log_pass $assertion
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_006_pos.ksh 1

```
*****
2903 Fri Nov 22 15:22:47 2013
new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_006_pos.ksh
4206 history_003_pos relies on exact size of history log and entries
4207 history_008_pos depends on obsolete internal history log message
4208 Typo in zfs_main.c: "posxiuser"
4209 Populate zfstest with the remainder of the STF tests
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31 #
32 . $STF_SUITE/include/libtest.shlib
33 . $STF_SUITE/tests/functional/zvol/zvol_common.shlib
34 #
35 #
36 # DESCRIPTION:
37 # A volume can be added as several segments, but overlapping segments
38 # are not allowed.
39 #
40 # STRATEGY:
41 # 1. Figure out three groups swaplow and swaplen.
42 # 2. Verify different volume segments can be added correctly.
43 # 3. Verify overlapping swap volume are not allowed.
44 #
45 #
46 verify_runnable "global"
47 #
48 function cleanup
49 {
50     typeset -i i=0
51 #
52     while ((count > 0)); do
53         log_must $$SWAP -d $swapname ${swap_opt[$i]}
```

new/usr/src/test/zfs-tests/tests/functional/zvol/zvol_swap/zvol_swap_006_pos.ksh 2

```
55         ((i += 2))
56         ((count -= 1))
57     done
58 }
59 #
60 log_assert "Verify volume can be add as several segments, but overlapping " \
61     "are not allowed."
62 log_onexit cleanup
63 #
64 # swap -a won't allow the use of multiple segments of the same volume unless
65 # libdiskmgmt is disabled with the environment variable below.
66 typeset -x NOINUSE_CHECK=1
67 #
68 typeset vol=$TESTPOOL/$TESTVOL
69 typeset -i pageblocks volblocks
70 ((pageblocks = $($PAGESIZE) / 512))
71 ((volblocks = $(get_prop volsize $vol) / 512))
72 #
73 log_note "Verify volume can be add as several segments."
74 #
75 #
76 # swaplow swaplen
77 set -A swap_opt $(pageblocks) \
78     $((pageblocks * ((RANDOM % 50) + 1) + (RANDOM % pageblocks))) \
79     $((volblocks / 3)) \
80     $((pageblocks * ((RANDOM % 50) + 1) + (RANDOM % pageblocks))) \
81     $((volblocks / 2)) \
82     $((pageblocks * ((RANDOM % 50) + 1) + (RANDOM % pageblocks))) \
83     $(((volblocks*2) / 3)) \
84     $((pageblocks * ((RANDOM % 50) + 1) + (RANDOM % pageblocks)))
85 #
86 swapname=/dev/zvol/dsk/$vol
87 typeset -i i=0 count=0
88 #
89 if is_swap_inuse $swapname ; then
90     log_must $$SWAP -d $swapname
91 fi
92 #
93 while ((i < ${#swap_opt[@]}); do
94     log_must $$SWAP -a $swapname ${swap_opt[$i]} ${swap_opt[((i+1)]]}
95 #
96     ((i += 2))
97     ((count += 1))
98 done
99 #
100 log_note "Verify overlapping swap volume are not allowed"
101 i=0
102 while ((i < ${#swap_opt[@]}); do
103     log_mustnot $$SWAP -a $swapname ${swap_opt[$i]}
104 #
105     ((i += 2))
106 done
107 #
108 log_pass "Verify volume can be added as several segments passed."
```