

new/usr/src/test/crypto-tests/tests/common/cryptotest_kcf.c

1

9713 Mon Jan 7 12:59:01 2019

new/usr/src/test/crypto-tests/tests/common/cryptotest_kcf.c

10076 make usr/src/test smatch clean

unchanged portion omitted

```
70 crypto_op_t *
71 cryptotest_init(cryptotest_t *arg, crypto_func_group_t fg)
72 {
73     crypto_op_t *op = malloc(sizeof (*op));
74
75     if (op == NULL)
76         return (NULL);
77
78     while ((fd = open(CRYPTO_DEVICE, O_RDWR)) < 0) {
79         if (errno != EINTR) {
80             free(op);
81             if (errno != EINTR)
82                 return (NULL);
83         }
84
85         op->in = (char *)arg->in;
86         op->out = (char *)arg->out;
87         op->key = (char *)arg->key;
88         op->param = (char *)arg->param;
89
90         op->inlen = arg->inlen;
91         op->outlen = arg->outlen;
92         op->keylen = arg->keylen * 8; /* kcf uses keylen in bits */
93         op->paramlen = arg->plen;
94         op->updatelen = arg->updatelen;
95
96         op->mechname = arg->mechname;
97
98         op->hsession = CRYPTO_INVALID_SESSION;
99         op->fg = fg;
100
101         if (op->out == NULL)
102             op->outlen = op->inlen;
103         return (op);
104 }
```

unchanged portion omitted

```
*****
```

```
2372 Mon Jan 7 12:59:02 2019
```

```
new/usr/src/test/libc-tests/tests/Makefile
```

```
10076 make usr/src/test smatch clean
```

```
*****
```

```
1 #
2 # This file and its contents are supplied under the terms of the
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6 #
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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) 2012 by Delphix. All rights reserved.
14 # Copyright 2015 Garrett D'Amore <garrett@damore.org>
15 # Copyright (c) 2018, Joyent, Inc.
16 # Copyright 2016 Joyent, Inc.
17 #
```

```
18 SUBDIRS = \
19     catopen \
20     fpround \
21     newlocale \
22     nl_langinfo \
23     priv_gettext \
24     random \
25     regex \
26     select \
27     strerror \
28     symbols \
29     threads \
30     wcsrtombs \
31     wctype
```

```
33 PROGS = \
34     aligned_alloc \
35     cli_threads \
36     cli_tss \
37     call_once \
38     endian \
39     env-7076 \
40     fnmatch \
41     memset_s \
42     printf-9511 \
43     psignal-5097 \
44     quick_exit_order \
45     quick_exit_status \
46     set_constraint_handler_s \
47     strcoll-strxfrm-6907 \
48     timespec_get \
49     wcsncasecmp \
50     wcsncasecmp-7344 \
51     wcsncasecmp-7350
```

```
53 SCRIPTS = \
54     quick_exit \
55     psignal
```

```
57 CPPFLAGS += -D_REENTRANT
```

```
59 # needs work
60 SMOFF += all_func_returns,snprintf_overflow
```

```
62 PROGS32 = $(PROGS:%=%.32)
63 PROGS64 = \
64     $(PROGS:%=%.64) \
65     printf-6961.64
```

```
67 aligned_alloc.32 := LDLIBS += -lproc
68 aligned_alloc.64 := LDLIBS64 += -lproc
```

```
70 memset_s.32 := CPPFLAGS += -D__STDC_WANT_LIB_EXT1__=1
71 memset_s.64 := CPPFLAGS += -D__STDC_WANT_LIB_EXT1__=1
72 set_constraint_handler_s.32 := CPPFLAGS += -D__STDC_WANT_LIB_EXT1__=1
73 set_constraint_handler_s.64 := CPPFLAGS += -D__STDC_WANT_LIB_EXT1__=1
```

```
75 ROOTOPTDIR = $(ROOT)/opt/libc-tests/tests
76 ROOTOPTPROGS = $(PROGS32:%=$(ROOTOPTDIR)/%) \
77     $(PROGS64:%=$(ROOTOPTDIR)/%) \
78     $(SCRIPTS:%=$(ROOTOPTDIR)/%)
```

```
80 include $(SRC)/cmd/Makefile.cmd
```

```
82 all := TARGET = all
83 install := TARGET = install
84 clean := TARGET = clean
85 clobber := TARGET = clobber
86 lint := TARGET = lint
```

```
88 .KEEP_STATE:
```

```
90 install: $(SUBDIRS) $(ROOTOPTPROGS)
```

```
92 all: $(SUBDIRS) $(PROGS32) $(PROGS64)
```

```
94 clean lint: $(SUBDIRS)
```

```
96 $(ROOTOPTPROGS): $(PROGS32) $(PROGS64) $(ROOTOPTDIR)
```

```
98 $(ROOTOPTDIR):
99     $(INS.dir)
```

```
101 $(ROOTOPTDIR)/%: %
102     $(INS.file)
```

```
104 $(ROOTOPTDIR)/%: %.ksh
105     $(INS.rename)
```

```
107 %.64: %.c
108     $(LINK64.c) -o $@ $< $(LDLIBS64)
109     $(POST_PROCESS)
```

```
111 %.32: %.c
112     $(LINK.c) -o $@ $< $(LDLIBS)
113     $(POST_PROCESS)
```

```
115 clobber: $(SUBDIRS)
116     $(RM) $(PROGS32) $(PROGS64)
```

```
118 $(SUBDIRS): FRC
119     @cd $@; pwd; $(MAKE) $(TARGET)
```

```
121 FRC:
```

new/usr/src/test/libc-tests/tests/regex/Makefile

1

```
*****
1490 Mon Jan 7 12:59:03 2019
new/usr/src/test/libc-tests/tests/regex/Makefile
10076 make usr/src/test smatch clean
*****
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 2018 Nexenta Systems, Inc.
14 #
15 #
16 include $(SRC)/Makefile.master
17 #
18 ROOTOPTPKG= $(ROOT)/opt/libc-tests
19 TESTDIR= $(ROOTOPTPKG)/tests/regex
20 DATADIR= $(TESTDIR)/data
21 #
22 PROG= testregex
23 #
24 SHPROG= regex_test
25 #
26 DATA= basic.dat basic.out \
27 categorize.dat categorize.out \
28 forcedassoc.dat forcedassoc.out \
29 leftassoc.dat leftassoc.out \
30 nullsubexpr.dat nullsubexpr.out \
31 repetition.dat repetition.out \
32 rightassoc.dat rightassoc.out
33 #
34 include $(SRC)/cmd/Makefile.cmd
35 #
36 CERRWARN += -_gcc=-Wno-parentheses
37 CERRWARN += -_gcc=-Wno-uninitialized
38 CERRWARN += -_gcc=-Wno-clobbered
39 #
40 # needs work
41 SMOFF += all_func_returns,testing_index_after_use
42 #
43 CMDS= $(PROG:%=$(TESTDIR)/%) $(SHPROG:%=$(TESTDIR)/%)
44 $(CMDS) := FILEMODE=0555
45 TESTDATA= $(DATA:%=$(DATADIR)/%)
46 $(TESTDATA) := FILEMODE=0444
47 #
48 .KEEP_STATE:
49 #
50 all: $(PROG)
51 #
52 $(CMDS): $(TESTDIR)
53 #
54 $(TESTDATA): $(DATADIR)
55 #
56 install: all $(CMDS) $(TESTDATA)
57 #
58 clean lint:
59 #
60 $(TESTDIR) $(DATADIR):
61 $(INS.dir)
```

new/usr/src/test/libc-tests/tests/regex/Makefile

2

```
63 $(TESTDIR)/%: %
64 $(INS.file)
65 #
66 $(TESTDIR)/%: %.sh
67 $(INS.rename)
68 #
69 $(DATADIR)/%: data/%
70 $(INS.file)
71 #
72 include $(SRC)/cmd/Makefile.targ
```

new/usr/src/test/libc-tests/tests/select/Makefile 1

```
*****
1269 Mon Jan 7 12:59:03 2019
new/usr/src/test/libc-tests/tests/select/Makefile
10076 make usr/src/test smatch clean
*****
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 # Copyright 2016, Richard Lowe.
13 # Copyright (c) 2018, Joyent, Inc.
15 include $(SRC)/Makefile.master
16 include $(SRC)/Makefile.master.64
17 include $(SRC)/cmd/Makefile.cmd
18 include $(SRC)/cmd/Makefile.cmd.64
20 ROOTOPTPKG = $(ROOT)/opt/libc-tests
21 TESTDIR = $(ROOTOPTPKG)/tests/select
22 ROOTBINDIR = $(ROOTOPTPKG)/bin
24 PROGS= select_test
26 CSTD= $(CSTD_GNU99)
28 # needs work
29 SMOFF += all_func_returns
31 select_test: select_test.c
32     $(LINK64.c) -o $@ select_test.c $(LDLIBS64)
33     $(POST_PROCESS)
35 SCRIPTS=select.sh
36 CMDS = $(PROGS:%=$(TESTDIR)/%) $(SCRIPTS:%=$(TESTDIR)/%)
38 $(SCRIPTS) $(CMDS) := FILEMODE = 0555
40 $(CMDS): $(TESTDIR) $(PROGS)
42 all: $(PROGS)
44 clean:
46 clobber: clean
47     -$(RM) $(PROGS)
49 install: all $(CMDS)
51 lint:
53 $(ROOTBINDIR):
54     $(INS.dir)
56 $(ROOTBINDIR)/%: %
57     $(INS.file)
59 $(TESTDIR):
60     $(INS.dir)
```

new/usr/src/test/libc-tests/tests/select/Makefile 2

```
62 $(TESTDIR)/%: %
63     $(INS.file)
65 $(TESTDIR)/%: %
66     $(INS.file)
68 .KEEP_STATE:
```

new/usr/src/test/libc-tests/tests/symbols/Makefile

1

1124 Mon Jan 7 12:59:04 2019

new/usr/src/test/libc-tests/tests/symbols/Makefile

10076 make usr/src/test smatch clean

```
1 #
2 # This file and its contents are supplied under the terms of the
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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 2014 Garrett D'Amore <garrett@damore.org>
14 # Copyright 2018, Joyent, Inc.
15 #
```

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

```
19 TESTSUBDIR = symbols
20 PROG = symbols_test
21 KSHPROG = setup
22 SYMTESTS = \
23     assert_h \
24     ctype_h \
25     dirent_h \
26     fcntl_h \
27     locale_h \
28     math_h \
29     netdb_h \
30     pthread_h \
31     stdalign_h \
32     stddef_h \
33     signal_h \
34     stdio_h \
35     stdlib_h \
36     stdnoreturn_h \
37     string_h \
38     strings_h \
39     sys_stat_h \
40     sys_time_h \
41     sys_timeb_h \
42     time_h \
43     threads_h \
44     ucontext_h \
45     unistd_h \
46     wchar_h \
47     wctype_h
```

```
49 EXTRAPROG += $(SYMTESTS)
```

```
51 include ../Makefile.com
```

```
53 # needs work
```

```
54 SMOFF += testing_index_after_use
```

```
56 LDLIBS += -lcustr
```

```
57 LDLIBS64 += -lcustr
```

```
59 $(SYMTESTS:%=$(TESTDIR)/%): $(TESTDIR)/setup
```

```
60     -$(RM) $@
```

```
61     $(LN) $(TESTDIR)/setup $@
```

new/usr/src/test/os-tests/tests/i386/badseg.c

1

2322 Mon Jan 7 12:59:06 2019

new/usr/src/test/os-tests/tests/i386/badseg.c

10076 make usr/src/test smatch clean

_____unchanged_portion_omitted_

```
56 static void
57 resetseg(uint_t seg)
58 {
59     ucontext_t ucp;
60     volatile int done = 0;

62     int rc = getcontext(&ucp);
63     if (done) {
64         (void) getcontext(&ucp);
65         return;
66     }

68     if (rc == 0) {
69         done = 1;
70         ucp.uc_mcontext.gregs[seg] = selector;
71         (void) setcontext(&ucp);
71         setcontext(&ucp);
72     }
73     abort();
74 }
```

_____unchanged_portion_omitted_

new/usr/src/test/os-tests/tests/i386/ldt.c

1

```
*****
1700 Mon Jan 7 12:59:08 2019
new/usr/src/test/os-tests/tests/i386/ldt.c
10076 make usr/src/test smatch clean
*****
1 /*
2  * This file and its contents are supplied under the terms of the
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4  * You may only use this file in accordance with the terms of version
5  * 1.0 of the CDDL.
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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 /*
13  * Copyright 2018 Joyent, Inc.
14 */

16 #include <sys/types.h>
17 #include <sys/sysi86.h>
18 #include <sys/segments.h>
19 #include <sys/segment.h>
20 #include <unistd.h>
21 #include <string.h>
22 #include <errno.h>
23 #include <pthread.h>
24 #include <err.h>

26 char foo[4096];

28 static void *
29 donothing(void *nothing)
30 {
31     (void) sleep(5);
31     sleep(5);
32     return (NULL);
33 }

35 int
36 main(void)
37 {
38     pthread_t tid;

40     /*
41      * This first is similar to what sbcl does in some variants. Note the
42      * SDT_MEMRW (not SDT_MEMRWA) so we check that the kernel is forcing the
43      * 'accessed' bit too.
44      */
45     int sel = SEL_LDT(7);

47     struct ssd ssd = { sel, (unsigned long)&foo, 4096,
48         SDT_MEMRW | (SEL_UPL << 5) | (1 << 7), 0x4 };

50     if (sysi86(SI86DSCR, &ssd) < 0)
51         err(-1, "failed to setup segment");

53     __asm__ __volatile__ ("mov %0, %%fs" : : "r" (sel));

55     ssd.accl = 0;

57     if (sysi86(SI86DSCR, &ssd) == 0)
58         errx(-1, "removed in-use segment?");

60     __asm__ __volatile__ ("mov %0, %%fs" : : "r" (0));
```

new/usr/src/test/os-tests/tests/i386/ldt.c

2

```
62     if (sysi86(SI86DSCR, &ssd) < 0)
63         err(-1, "failed to remove segment");

65     for (int i = 0; i < MAXNLDT; i++) {
66         ssd.sel = SEL_LDT(i);
67         (void) sysi86(SI86DSCR, &ssd);
68     }

70     for (int i = 0; i < 10; i++)
71         (void) pthread_create(&tid, NULL, donothing, NULL);
71         pthread_create(&tid, NULL, donothing, NULL);

73     if (forkall() == 0) {
74         (void) sleep(2);
74         sleep(2);
75         _exit(0);
76     }

78     (void) sleep(6);
78     sleep(6);
79     return (0);
80 }
    _____
    unchanged_portion_omitted
```

new/usr/src/test/os-tests/tests/secflags/stacky.c

1

93 Mon Jan 7 12:59:09 2019

new/usr/src/test/os-tests/tests/secflags/stacky.c

10076 make usr/src/test smatch clean

1 #include <unistd.h>

3 int

4 main(int argc, char **argv)

5 {

6 (void) sleep(100000);

6 sleep(100000);

7 return (0);

8 }

_____unchanged_portion_omitted_

new/usr/src/test/os-tests/tests/sockfs/Makefile

1

1205 Mon Jan 7 12:59:10 2019

new/usr/src/test/os-tests/tests/sockfs/Makefile

10076 make usr/src/test smatch clean

```
1 #
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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) 2012 by Delphix. All rights reserved.
14 # Copyright 2017 Gordon W. Ross
15 # Copyright (c) 2018, Joyent, Inc.
16 #
```

```
18 include $(SRC)/cmd/Makefile.cmd
19 include $(SRC)/test/Makefile.com
```

```
21 PROG = conn dgram drop_priv nosignal sockpair
```

```
23 LINTS = $(PROGS:%=%.ln)
```

```
25 LDLIBS += -lsocket
26 CSTD = $(CSTD_GNU99)
27 CPPFLAGS += -D_XOPEN_SOURCE=600 -D__EXTENSIONS__
```

```
29 # needs work
30 SMOFF += all_func_returns
```

```
32 nosignal := LDLIBS += -lnsl
33 nosignal.ln := LDLIBS += -lnsl
```

```
35 ROOTOPTPKG = $(ROOT)/opt/os-tests
36 TESTDIR = $(ROOTOPTPKG)/tests/sockfs
```

```
38 CMDS = $(PROG:%=$(TESTDIR)/%)
39 $(CMDS) := FILEMODE = 0555
```

```
41 all: $(PROG)
```

```
43 install: $(CMDS)
```

```
45 lint: $(LINTS)
```

```
47 clobber: clean
48     -$(RM) $(PROG)
```

```
50 clean:
```

```
52 $(CMDS): $(TESTDIR) $(PROG)
```

```
54 %.ln : %.c
55     $(LINT.c) $*.c $(UTILS) $(LDLIBS)
```

```
57 $(TESTDIR):
58     $(INS.dir)
```

```
60 $(TESTDIR)/%: %
61     $(INS.file)
```

new/usr/src/test/smbclient-tests/cmd/Makefile.cmd

1

1223 Mon Jan 7 12:59:10 2019

new/usr/src/test/smbclient-tests/cmd/Makefile.cmd

10076 make usr/src/test smatch clean

```
1 #
2 # This file and its contents are supplied under the terms of the
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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 #
13 # Copyright 2015 Nexenta Systems, Inc. All rights reserved.
14 # Copyright (c) 2018, Joyent, Inc.
15 #
```

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

```
19 OBJS= $(PROG:%=%.o)
20 SRCS= $(OBJS:%.o=%.c)
```

```
22 ROOTPROG= $(PROG:%=$(ROOTBINDIR)/%)
23 $(ROOTPROG) := FILEMODE = 0555
```

```
25 CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64
```

```
27 LINTFLAGS += -erroff=E_BAD_FORMAT_STR2
28 LINTFLAGS += -erroff=E_NAME_DECL_NOT_USED_DEF2
29 LINTFLAGS += -erroff=E_FUNC_RET_ALWAYS_IGNORE2
```

```
31 # needs work
32 SMOFF += all_func_returns,leaks
```

```
34 all: $(PROG)
```

```
36 $(PROG): $(OBJS)
37 $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
38 $(POST_PROCESS)
```

```
40 %.o: %.c
41 $(COMPILE.c) $<
42 $(POST_PROCESS_O)
```

```
44 install: all $(ROOTPROG)
```

```
46 lint: lint_SRCS
```

```
48 clobber: clean
49 -$(RM) $(PROG)
```

```
51 clean:
52 -$(RM) $(OBJS)
```

```
54 $(ROOTPROG): $(ROOTBINDIR) $(PROG)
```

```
56 $(ROOTBINDIR):
57 $(INS.dir)
```

```
59 $(ROOTBINDIR)/%: %
60 $(INS.file)
```

new/usr/src/test/smbclient-tests/cmd/mkfile_mmap/mkfile_mmap.c

1

3551 Mon Jan 7 12:59:11 2019

new/usr/src/test/smbclient-tests/cmd/mkfile_mmap/mkfile_mmap.c

10076 make usr/src/test smatch clean

```
1 /*
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4  * You may only use this file in accordance with the terms of version
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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 2012 Jilin Xpd <jilinxpd@gmail.com>
14  * Copyright 2018 Nexenta Systems, Inc.
15  * Copyright (c) 2018, Joyent, Inc.
16 */
```

```
18 /*
19  * Using mmap, make a file and padding it with random chars.
20 */
```

```
22 #include <sys/mman.h>
23 #include <sys/types.h>
24 #include <sys/stat.h>
25 #include <fcntl.h>
26 #include <stdio.h>
27 #include <stdlib.h>
28 #include <unistd.h>
29 #include <string.h>
30 #include <errno.h>
31 #include <time.h>
```

```
33 void
34 usage(void)
35 {
36     fprintf(stderr,
37             "usage: mkfile_mmap -n <size>[b|k|m|g] -f <filename>\n");
38     exit(1);
39 }
```

_____ unchanged_portion_omitted

new/usr/src/test/zfs-tests/cmd/randfree_file/randfree_file.c

1

```
*****
2363 Mon Jan 7 12:59:12 2019
new/usr/src/test/zfs-tests/cmd/randfree_file/randfree_file.c
10076 make usr/src/test smatch clean
*****
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 */
22 /*
23  * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
24  * Use is subject to license terms.
25 */
27 /*
28  * Copyright (c) 2012 by Delphix. All rights reserved.
29 */
31 /*
32  * Copyright (c) 2018, Joyent, Inc.
33 */
35 #include "../file_common.h"
37 /*
38  * Create a file with assigned size and then free the specified
39  * section of the file
40 */
42 static void usage(char *progname);
44 static void
45 usage(char *progname)
46 {
47     (void) fprintf(stderr,
48         "usage: %s [-l filesize] [-s start-offset]"
49         "[-n section-len] filename\n", progname);
50     exit(1);
51 }
53 int
54 main(int argc, char *argv[])
55 {
56     char *filename = NULL;
57     char *buf;
58     size_t filesize = 0;
59     off_t start_off = 0;
60     off_t off_len = 0;
61     int fd, ch;
```

new/usr/src/test/zfs-tests/cmd/randfree_file/randfree_file.c

2

```
62     struct flock fl;
63     mode_t mode = S_IRUSR | S_IWUSR | S_IRGRP | S_IROTH;
65     while ((ch = getopt(argc, argv, "l:s:n:") != EOF) {
66         switch (ch) {
67             case 'l':
68                 filesize = atoll(optarg);
69                 break;
70             case 's':
71                 start_off = atoll(optarg);
72                 break;
73             case 'n':
74                 off_len = atoll(optarg);
75                 break;
76             default:
77                 usage(argv[0]);
78                 break;
79         }
80     }
82     if (optind == argc - 1)
83         filename = argv[optind];
84     else
85         usage(argv[0]);
87     buf = (char *)malloc(filesize);
89     if ((fd = open(filename, O_RDWR | O_CREAT | O_TRUNC, mode)) < 0) {
90         perror("open");
91         free(buf);
92         return (1);
93     }
94     if (write(fd, buf, filesize) < filesize) {
95         perror("write");
96         free(buf);
97         return (1);
98     }
99     fl.l_whence = SEEK_SET;
100    fl.l_start = start_off;
101    fl.l_len = off_len;
102    if (fcntl(fd, F_FREESP, &fl) != 0) {
103        perror("fcntl");
104        free(buf);
105        return (1);
106    }
108    free(buf);
109    return (0);
110 }
_____unchanged_portion_omitted_____
```

new/usr/src/test/zfs-tests/tests/functional/ctime/ctime_001_pos.c

1

```
*****
7198 Mon Jan 7 12:59:14 2019
new/usr/src/test/zfs-tests/tests/functional/ctime/ctime_001_pos.c
10076 make usr/src/test smatch clean
*****
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 */

22 /*
23  * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
24  * Use is subject to license terms.
25  */

27 /*
28  * Copyright (c) 2013 by Delphix. All rights reserved.
29  */

31 /*
32  * Copyright (c) 2018, Joyent, Inc.
33  */

35 #include <sys/types.h>
36 #include <sys/stat.h>
37 #include <utime.h>
38 #include <stdio.h>
39 #include <stdlib.h>
40 #include <unistd.h>
41 #include <strings.h>
42 #include <errno.h>
43 #include <fcntl.h>
44 #include <libgen.h>

46 #define ST_ATIME 0
47 #define ST_CTIME 1
48 #define ST_MTIME 2

50 #define ALL_MODE (mode_t)(S_IRWXU|S_IRWXG|S_IRWXO)

52 typedef struct timetest {
53     int     type;
54     char    *name;
55     int     (*func)(const char *pfile);
56 } timetest_t;
    unchanged_portion_omitted

275 #define NCOMMAND (sizeof (timetest_table) / sizeof (timetest_table[0]))
277 /* ARGSUSED */
```

new/usr/src/test/zfs-tests/tests/functional/ctime/ctime_001_pos.c

2

```
278 int
279 main(int argc, char *argv[])
280 {
281     int i, ret, fd;
282     char *penv[] = {"TESTDIR", "TESTFILE0"};

284     (void) fprintf(stdout, "Verify [acm]time is modified appropriately.\n");
285     (void) atexit(cleanup);

287     /*
288      * Get the environment variable values.
289      */
290     for (i = 0; i < sizeof (penv) / sizeof (char *); i++) {
291         if ((penv[i] = getenv(penv[i])) == NULL) {
292             (void) fprintf(stderr, "getenv(penv[%d])\n", i);
293             return (1);
294         }
295     }
296     (void) snprintf(tfile, sizeof (tfile), "%s/%s", penv[0], penv[1]);

298     /*
299      * If the test file is exists, remove it first.
300      */
301     if (access(tfile, F_OK) == 0) {
302         (void) unlink(tfile);
303     }
304     ret = 0;
305     if ((fd = open(tfile, O_WRONLY | O_CREAT | O_TRUNC, ALL_MODE)) == -1) {
306         (void) fprintf(stderr, "open(%s) failed: %d\n", tfile, errno);
307         return (1);
308     }
309     (void) close(fd);

311     for (i = 0; i < NCOMMAND; i++) {
312         time_t t1, t2;

314         /*
315          * Get original time before operating.
316          */
317         ret = get_file_time(tfile, timetest_table[i].type, &t1);
318         if (ret != 0) {
319             (void) fprintf(stderr, "get_file_time(%s %d) = %d\n",
320                 tfile, timetest_table[i].type, ret);
321             return (1);
322         }

324         /*
325          * Sleep 2 seconds, then invoke command on given file
326          */
327         (void) sleep(2);
328         (void) timetest_table[i].func(tfile);
329         timetest_table[i].func(tfile);

330         /*
331          * Get time after operating.
332          */
333         ret = get_file_time(tfile, timetest_table[i].type, &t2);
334         if (ret != 0) {
335             (void) fprintf(stderr, "get_file_time(%s %d) = %d\n",
336                 tfile, timetest_table[i].type, ret);
337             return (1);
338         }

340         if (t1 == t2) {
341             (void) fprintf(stderr, "%s: t1(%ld) == t2(%ld)\n",
342                 timetest_table[i].name, (long)t1, (long)t2);
```

new/usr/src/test/zfs-tests/tests/functional/ctime/ctime_001_pos.c

3

```
343         return (1);
344     } else {
345         (void) fprintf(stderr, "%s: t1(%ld) != t2(%ld)\n",
346             timetest_table[i].name, (long)t1, (long)t2);
347     }
348 }
349
350 (void) fprintf(stdout, "PASS\n");
351 return (0);
352 }
unchanged_portion_omitted
```