

```

*****
27616 Sun Feb 24 21:11:27 2013
new/exception_lists/packaging
saveargs: Implement as libsaveargs
*****
1 #
2 # CDDL HEADER START
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19 # CDDL HEADER END
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21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
25 # Copyright 2012 OmniTI Computer Consulting, Inc. All rights reserved.
26 #
27 #
28 #
29 # Exception List for validate_pkg
30 #
31 #
32 #
33 # The following entries are built in the /proto area
34 # but not included in any packages - this is intentional.
35 #
36 usr/include/auth_list.h
37 usr/include/bsm/audit_door_infc.h
38 usr/include/bsm/audit_private.h
39 usr/include/bsm/devalloc.h
40 usr/include/getxby_door.h
41 usr/include/passwdutil.h
42 usr/include/priv_utils.h
43 usr/include/rpcsvc/daemon_utils.h
44 usr/include/rpcsvc/svc_dg_priv.h
45 usr/include/security/pam_impl.h
46 usr/include/sys/clock_impl.h
47 usr/include/sys/ieeefp.h
48 usr/include/sys/winlockio.h
49 usr/include/scsi/plugins/ses/vendor/sun_impl.h
50 #
51 # Private/Internal libraries of the Cryptographic Framework.
52 #
53 lib/libkcf.so
54 lib/libelfsign
55 lib/libelfsign.ln
56 lib/liblkcfd
57 lib/liblkcfd.ln
58 usr/include/libelfsign.h
59 usr/lib/liblsoftcrypto
60 usr/lib/liblsoftcrypto.ln
61 usr/lib/amd64/liblsoftcrypto.ln      i386

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62 usr/lib/sparcv9/liblsoftcrypto.ln      sparcv9
63 #
64 #
65 # The following files are used by the DHCP service, the
66 # standalone's DHCP implementation, and the kernel (nfs_dhboot).
67 # They contain interfaces which are currently private.
68 #
69 usr/include/dhcp_svc_confkey.h
70 usr/include/dhcp_svc_confopt.h
71 usr/include/dhcp_svc_private.h
72 usr/include/dhcp_symbol.h
73 usr/include/sys/sunos_dhcp_class.h
74 usr/lib/libdhcpsvc.so
75 usr/lib/libldhcpsvc
76 usr/lib/libldhcpsvc.ln
77 #
78 # Private MAC driver header files
79 #
80 usr/include/inet/iptun.h
81 usr/include/sys/aggr_impl.h
82 usr/include/sys/aggr.h
83 usr/include/sys/dld_impl.h
84 usr/include/sys/dld_ioc.h
85 usr/include/sys/dls_impl.h
86 usr/include/sys/dls.h
87 usr/include/sys/mac_client_impl.h
88 usr/include/sys/mac_client.h
89 usr/include/sys/mac_flow_impl.h
90 usr/include/sys/mac_impl.h
91 usr/include/sys/mac_soft_ring.h
92 usr/include/sys/mac_stat.h
93 #
94 # Private GLDv3 userland libraries and headers
95 #
96 usr/include/libdladm_impl.h
97 usr/include/libdlaggr.h
98 usr/include/libdlether.h
99 usr/include/libdlflow_impl.h
100 usr/include/libdlflow.h
101 usr/include/libdliptun.h
102 usr/include/libdlmgmt.h
103 usr/include/libdlsim.h
104 usr/include/libdlstat.h
105 usr/include/libdlvnic.h
106 usr/include/libdlwlan_impl.h
107 usr/include/libdlwlan.h
108 #
109 # Virtual Network Interface Card (VNIC)
110 #
111 usr/include/sys/vnic.h
112 usr/include/sys/vnic_impl.h
113 #
114 # Private libipadm lint library and header files
115 #
116 usr/include/ipadm_ipmgmt.h
117 usr/include/ipadm_ndpd.h
118 usr/include/libipadm.h
119 lib/libipadm
120 lib/libipadm.ln
121 lib/libipadm.so
122 #
123 # Private libsocket header file
124 #
125 usr/include/libsocket_priv.h
126 #
127 # IKE and IPsec support library exceptions. The IKE support

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128 # library contains exclusively private interfaces, as does
129 # libipseutil. My apologies for the glut of header files here.
130 #
131 usr/include/errfp.h
132 usr/include/ikedoor.h
133 usr/include/ipsec_util.h
134 usr/lib/libike.so
135 usr/lib/amd64/libike.so          i386
136 usr/lib/sparcv9/libike.so      sparc
137 usr/lib/libipseutil.so
138 usr/lib/amd64/libipseutil.so   i386
139 usr/lib/sparcv9/libipseutil.so sparc
140 usr/lib/liblike
141 usr/lib/liblike.ln
142 usr/lib/amd64/liblike.ln       i386
143 usr/lib/sparcv9/liblike.ln     sparc
144 usr/lib/liblipsecutil
145 usr/lib/liblipsecutil.ln
146 usr/lib/amd64/liblipsecutil.ln i386
147 usr/lib/sparcv9/liblipsecutil.ln sparc
148 #
149 usr/include/inet/ip_impl.h
150 usr/include/inet/ip_ndp.h
151 usr/include/inet/ip2mac_impl.h
152 usr/include/inet/ip2mac.h
153 usr/include/inet/rawip_impl.h
154 usr/include/inet/tcp_impl.h
155 usr/include/inet/udp_impl.h
156 usr/include/libmail.h
157 usr/include/libnwm_priv.h
158 usr/include/protocols/ripngd.h
159 usr/include/s_string.h
160 usr/include/sys/logindmux_impl.h
161 usr/include/sys/vgareg.h
162 #
163 # Some IPsec headers can't be shipped lest we hit export controls...
164 #
165 usr/include/inet/ipsec_impl.h
166 usr/include/inet/ipsec_info.h
167 usr/include/inet/ipsec.h
168 usr/include/inet/ipsecesp.h
169 usr/include/inet/keysock.h
170 usr/include/inet/sadb.h
171 usr/include/sys/sha1_consts.h
172 usr/include/sys/sha2_consts.h
173 #
174 #
175 # Filtering out directories not shipped
176 #
177 usr/4lib          i386
178 #
179 # These files contain definitions shared privately between the kernel
180 # and libc. There is no reason for them to be part of a package that
181 # a customer should ever see. They are installed in the proto area by
182 # the uts build because libc and other components, like truss, are
183 # dependent upon their contents and should not have their own copies.
184 #
185 usr/include/sys/libc_kernel.h
186 usr/include/sys/synch32.h
187 #
188 # These files are installed in the proto area by the build of libproc for
189 # the benefit of the builds of cmd/truss, cmd/gcore and cmd/ptools, which
190 # use libproc as their common process-control library. These are not
191 # interfaces for customer use, so the files are excluded from packaging.
192 #
193 lib/liblproc

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194 lib/liblproc.ln
195 lib/amd64/liblproc.ln          i386
196 lib/sparcv9/liblproc.ln       sparc
197 usr/include/libproc.h
198 #
199 # Private interfaces for libdisasm
200 #
201 usr/include/libdisasm.h
202 usr/lib/libldisasm
203 usr/lib/libldisasm.ln
204 usr/lib/amd64/libldisasm.ln    i386
205 usr/lib/sparcv9/libldisasm.ln  sparc
206 #
207 # Private interfaces for libraidcfg
208 #
209 usr/include/raidcfg_spi.h
210 usr/include/raidcfg.h
211 usr/lib/libraidcfg.so
212 usr/lib/amd64/libraidcfg.so    i386
213 usr/lib/sparcv9/libraidcfg.so  sparc
214 usr/lib/liblraidcfg
215 usr/lib/liblraidcfg.ln
216 usr/lib/amd64/liblraidcfg.ln   i386
217 usr/lib/sparcv9/liblraidcfg.ln sparc
218 #
219 # This file is used for private communication between mdb, drv/kmdb, and
220 # misc/kmdb. The interfaces described herein are not intended for customer
221 # use, and are thus excluded from packaging.
222 #
223 usr/include/sys/kmdb.h
224 #
225 # These files are installed in the proto area by the build of libdhcpage
226 # and libdhcputil for the benefit of DHCP-related networking commands such
227 # as dhcpage, dhcpageinfo, ifconfig, and netstat. These are not interfaces
228 # for customer use, so the files are excluded from packaging.
229 #
230 lib/libdhcpage.so
231 lib/libdhcputil.so
232 lib/amd64/libdhcputil.so       i386
233 lib/sparcv9/libdhcputil.so     sparc
234 lib/libldhcpage
235 lib/libldhcpage.ln
236 lib/libldhcputil
237 lib/libldhcputil.ln
238 lib/amd64/libldhcputil.ln     i386
239 lib/sparcv9/libldhcputil.ln   sparc
240 usr/include/dhcp_hostconf.h
241 usr/include/dhcp_impl.h
242 usr/include/dhcp_inittab.h
243 usr/include/dhcp_stable.h
244 usr/include/dhcp_symbol_common.h
245 usr/include/dhcpagent_ipc.h
246 usr/include/dhcpagent_util.h
247 usr/include/dhcpmsg.h
248 usr/lib/libdhcpage.so
249 usr/lib/libdhcputil.so
250 usr/lib/amd64/libdhcputil.so   i386
251 usr/lib/sparcv9/libdhcputil.so sparc
252 usr/lib/libldhcpage
253 usr/lib/libldhcpage.ln
254 usr/lib/libldhcputil
255 usr/lib/libldhcputil.ln
256 usr/lib/amd64/libldhcputil.ln i386
257 usr/lib/sparcv9/libldhcputil.ln sparc
258 #
259 # These files are installed in the proto area by the build of libinstzones

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260 # and libpkg
261 #
262 usr/lib/llib-linstzones
263 usr/lib/llib-linstzones.ln
264 usr/lib/amd64/llib-linstzones.ln      i386
265 usr/lib/sparcv9/llib-linstzones.ln    sparc
266 usr/lib/llib-lpkg
267 usr/lib/llib-lpkg.ln
268 #
269 # Don't ship header files private to libipmp and in.mpathd
270 #
271 usr/include/ipmp_query_impl.h
272 #
273 # These files are installed in the proto area by the build of libinetsvc,
274 # an inetd-specific library shared by inetd, inetadm and inetconv. Only
275 # the shared object is shipped.
276 #
277 usr/include/inetsvc.h
278 usr/lib/libinetsvc.so
279 usr/lib/llib-linetsvc
280 usr/lib/llib-linetsvc.ln
281 #
282 # These files are installed in the proto area by the build of libinetutil,
283 # a general purpose library for the benefit of internet utilities. Only
284 # the shared object is shipped.
285 #
286 lib/libinetutil.so
287 lib/amd64/libinetutil.so      i386
288 lib/sparcv9/libinetutil.so    sparc
289 lib/llib-linetutil
290 lib/llib-linetutil.ln
291 lib/amd64/llib-linetutil.ln  i386
292 lib/sparcv9/llib-linetutil.ln sparc
293 usr/include/libinetutil.h
294 usr/include/netinet/inetutil.h
295 usr/include/ofmt.h
296 usr/lib/libinetutil.so
297 usr/lib/amd64/libinetutil.so  i386
298 usr/lib/sparcv9/libinetutil.so sparc
299 usr/lib/llib-linetutil
300 usr/lib/llib-linetutil.ln
301 usr/lib/amd64/llib-linetutil.ln i386
302 usr/lib/sparcv9/llib-linetutil.ln sparc
303 #
304 # Miscellaneous kernel interfaces or kernel->user interfaces that are
305 # consolidation private and we do not want to export at this time.
306 #
307 usr/include/sys/cryptmod.h
308 usr/include/sys/dumpadm.h
309 usr/include/sys/ontrap.h
310 usr/include/sys/sysmsg_impl.h
311 usr/include/sys/vlan.h
312 #
313 # These files are installed in the proto area so lvm can use
314 # them during the build process.
315 #
316 lib/llib-lmeta
317 lib/llib-lmeta.ln
318 usr/include/sdssc.h
319 usr/lib/llib-lmeta
320 usr/lib/llib-lmeta.ln
321 #
322 # non-public pci header
323 #
324 usr/include/sys/pci_impl.h
325 usr/include/sys/pci_tools.h

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326 #
327 # Exception list for RCM project, included by librcm and rcm_daemon
328 #
329 usr/include/librcm_event.h
330 usr/include/librcm_impl.h
331 #
332 # MDB deliverables that are not yet public
333 #
334 usr/lib/mdb/proc/mdb_test.so
335 usr/lib/mdb/proc/sparcv9/mdb_test.so    sparc
336 #
337 # SNCA project exception list
338 #
339 usr/include/inet/kssl/kssl.h
340 usr/include/inet/kssl/ksslimpl.h
341 usr/include/inet/kssl/ksslproto.h
342 usr/include/inet/nca
343 #
344 # these are "removed" from the source product build because the only
345 # packages that currently deliver them are removed.
346 # they really shouldn't be in here.
347 #
348 etc/sfw
349 #
350 # Entries for the libmech_krb5 symlink, which has been included
351 # for build purposes only, not delivered to customers.
352 #
353 usr/lib/gss/libmech_krb5.so
354 usr/lib/amd64/gss/libmech_krb5.so      i386
355 usr/lib/sparcv9/gss/libmech_krb5.so    sparc
356 usr/lib/libmech_krb5.so
357 usr/lib/amd64/libmech_krb5.so         i386
358 usr/lib/sparcv9/libmech_krb5.so       sparc
359 #
360 # Entries for headers from efcodes project which user does not need to see
361 #
362 usr/platform/sun4u/include/sys/fc_plat.h          sparc
363 usr/platform/sun4u/include/sys/fcode.h           sparc
364 #
365 # Private net80211 headers
366 #
367 usr/include/sys/net80211_crypto.h
368 usr/include/sys/net80211_ht.h
369 usr/include/sys/net80211_proto.h
370 usr/include/sys/net80211.h
371 #
372 usr/include/net/wpa.h
373 #
374 # PPPoE files not delivered to customers.
375 #
376 usr/include/net/pppoe.h
377 usr/include/net/sppptun.h
378 #
379 # Simmet
380 #
381 usr/include/net/simmet.h
382 #
383 # Bridging internal data structures
384 #
385 usr/include/net/bridge_impl.h
386 #
387 # User->kernel interface used by cfgadm/USB only
388 #
389 usr/include/sys/usb/hubd/hubd_impl.h
390 #
391 # User->kernel interface used by cfgadm/SATA only

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392 #
393 usr/include/sys/sata/sata_cfgadm.h          i386
394 #
395 # Private ucred kernel header
396 #
397 usr/include/sys/ucred.h
398 #
399 # Private and/or platform-specific smf(5) files
400 #
401 lib/librestart.so
402 lib/llib-lrestart
403 lib/llib-lrestart.ln
404 lib/amd64/llib-lrestart.ln          i386
405 lib/sparcv9/llib-lrestart.ln       sparc
406 usr/include/libcontract_priv.h
407 usr/include/librestart_priv.h
408 usr/include/librestart.h
409 usr/lib/librestart.so
410 usr/lib/sparcv9/librestart.so        sparc
411 lib/svc/manifest/platform/sun4u     i386
412 lib/svc/manifest/platform/sun4v     i386
413 var/svc/manifest/platform/sun4u     i386
414 var/svc/manifest/platform/sun4v     i386
415 etc/svc/profile/platform_sun4v.xml  i386
416 etc/svc/profile/platform_SUNW,SPARC-Enterprise.xml i386
417 etc/svc/profile/platform_SUNW,Sun-Fire-15000.xml i386
418 etc/svc/profile/platform_SUNW,Sun-Fire-880.xml  i386
419 etc/svc/profile/platform_SUNW,Sun-Fire-V890.xml i386
420 etc/svc/profile/platform_SUNW,Sun-Fire.xml      i386
421 etc/svc/profile/platform_SUNW,Ultra-Enterprise-10000.xml i386
422 etc/svc/profile/platform_SUNW,UltraSPARC-IIe-NetraCT-40.xml i386
423 etc/svc/profile/platform_SUNW,UltraSPARC-IIe-NetraCT-60.xml i386
424 etc/svc/profile/platform_SUNW,UltraSPARC-IIi-Netract.xml i386
425 #
426 # Private libuutil files
427 #
428 lib/libuutil.so
429 lib/llib-luutil
430 lib/llib-luutil.ln
431 lib/sparcv9/llib-luutil.ln         sparc
432 usr/include/libuutil_impl.h
433 usr/lib/libuutil.so
434 usr/lib/sparcv9/libuutil.so         sparc
435 #
436 # Private Multidata file.
437 #
438 usr/include/sys/multidata_impl.h
439 #
440 # The following files are used by wanboot.
441 # They contain interfaces which are currently private.
442 #
443 usr/include/sys/wanboot_impl.h
444 usr/include/wanboot
445 usr/include/wanbootutil.h
446 #
447 # Even though all the objects built under usr/src/stand are later glommed
448 # together into a couple of second-stage boot loaders, we dump the static
449 # archives and lint libraries into $(ROOT)/stand for intermediate use
450 # (e.g., for lint, linking the second-stage boot loaders, ...). Since
451 # these are merely intermediate objects, they do not need to be packaged.
452 #
453 stand                                sparc
454 #
455 # Private KCF header files
456 #
457 usr/include/sys/crypto/elfsign.h

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458 usr/include/sys/crypto/impl.h
459 usr/include/sys/crypto/ops_impl.h
460 usr/include/sys/crypto/sched_impl.h
461 #
462 # The following files are installed in the proto area
463 # by the build of libavl (AVL Tree Interface Library).
464 # libavl contains interfaces which are all private interfaces.
465 #
466 lib/libavl.so
467 lib/amd64/libavl.so                  i386
468 lib/sparcv9/libavl.so                sparc
469 lib/llib-lavl
470 lib/llib-lavl.ln
471 lib/amd64/llib-lavl.ln              i386
472 lib/sparcv9/llib-lavl.ln            sparc
473 usr/lib/libavl.so
474 usr/lib/amd64/libavl.so              i386
475 usr/lib/sparcv9/libavl.so            sparc
476 usr/lib/llib-lavl
477 usr/lib/llib-lavl.ln
478 usr/lib/amd64/llib-lavl.ln          i386
479 usr/lib/sparcv9/llib-lavl.ln        sparc
480 #
481 # The following files are installed in the proto area
482 # by the build of libcmdutils (Command Utilities Library).
483 # libcmdutils contains interfaces which are all private interfaces.
484 #
485 lib/libcmdutils.so
486 lib/amd64/libcmdutils.so              i386
487 lib/sparcv9/libcmdutils.so            sparc
488 lib/llib-lcmdutils
489 lib/llib-lcmdutils.ln
490 lib/amd64/llib-lcmdutils.ln          i386
491 lib/sparcv9/llib-lcmdutils.ln        sparc
492 usr/include/libcmdutils.h
493 usr/lib/libcmdutils.so
494 usr/lib/amd64/libcmdutils.so          i386
495 usr/lib/sparcv9/libcmdutils.so        sparc
496 usr/lib/llib-lcmdutils
497 usr/lib/llib-lcmdutils.ln
498 usr/lib/amd64/llib-lcmdutils.ln      i386
499 usr/lib/sparcv9/llib-lcmdutils.ln    sparc
500 #
501 # Private interfaces in libsec
502 #
503 usr/include/aclutils.h
504 #
505 # USB skeleton driver stays in sync with the rest of USB but doesn't ship.
506 #
507 kernel/drv/usbskel                    i386
508 kernel/drv/amd64/usbskel               i386
509 kernel/drv/sparcv9/usbskel             sparc
510 kernel/drv/usbskel.conf
511 #
512 # Consolidation and Sun private libdevid interfaces
513 # Public libdevid interfaces provided by devid.h
514 #
515 usr/include/sys/libdevid.h
516 #
517 # The following files are installed in the proto area by the build of
518 # libprtdiag. libprtdiag contains interfaces which are all private.
519 # Only the shared object is shipped.
520 #
521 usr/platform/sun4u/lib/llib-lprtdiag   sparc
522 usr/platform/sun4u/lib/llib-lprtdiag.ln sparc
523 usr/platform/sun4v/lib/llib-lprtdiag.ln sparc

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524 #
525 # The following files are installed in the proto area by the build of
526 # mdesc driver in sun4v. These header files are used on in the build
527 # and do not need to be shipped to customers.
528 #
529 usr/include/sys/mdesc.h                sparc
530 usr/include/sys/mdesc_impl.h          sparc
531 usr/platform/sun4v/include/sys/mach_descrip.h  sparc
532 #
533 # The following files are installed in the proto area by the build of
534 # libpcp. libpcp contains interfaces which are all private.
535 # Only the shared object is shipped.
536 #
537 usr/platform/sun4v/lib/llib-lpcp.ln    sparc
538 usr/platform/SUNW,Netra-CP3060/lib/llib-lpcp.ln  sparc
539 usr/platform/SUNW,Netra-CP3260/lib/llib-lpcp.ln  sparc
540 usr/platform/SUNW,Netra-T5220/lib/llib-lpcp.ln  sparc
541 usr/platform/SUNW,Netra-T5440/lib/llib-lpcp.ln  sparc
542 usr/platform/SUNW,SPARC-Enterprise-T5120/lib/llib-lpcp.ln  sparc
543 usr/platform/SUNW,Sun-Blade-T6300/lib/llib-lpcp.ln  sparc
544 usr/platform/SUNW,Sun-Blade-T6320/lib/llib-lpcp.ln  sparc
545 usr/platform/SUNW,Sun-Fire-T200/lib/llib-lpcp.ln  sparc
546 usr/platform/SUNW,T5140/lib/llib-lpcp.ln  sparc
547 usr/platform/SUNW,USBRDT-5240/lib/llib-lpcp.ln  sparc
548 #
549 # ZFS internal tools and lint libraries
550 #
551 usr/lib/llib-lzfs_jni
552 usr/lib/llib-lzfs_jni.ln
553 usr/lib/amd64/llib-lzfs_jni.ln          i386
554 usr/lib/sparcv9/llib-lzfs_jni.ln       sparc
555 usr/lib/llib-lzpool
556 usr/lib/llib-lzpool.ln                 i386
557 usr/lib/amd64/llib-lzpool.ln           i386
558 usr/lib/sparcv9/llib-lzpool.ln         sparc
559 #
560 # ZFS JNI headers
561 #
562 usr/include/libzfs_jni_dataset.h
563 usr/include/libzfs_jni_disk.h
564 usr/include/libzfs_jni_diskmgmt.h
565 usr/include/libzfs_jni_ipool.h
566 usr/include/libzfs_jni_main.h
567 usr/include/libzfs_jni_pool.h
568 usr/include/libzfs_jni_property.h
569 usr/include/libzfs_jni_util.h
570 #
571 # These files are installed in the proto area for Solaris scsi_vhci driver
572 # (for MPAPI support) and should not be shipped
573 #
574 usr/include/sys/scsi/adapters/mpapi_impl.h
575 usr/include/sys/scsi/adapters/mpapi_scsi_vhci.h
576 #
577 # This library is installed in the proto area by the build of libdisasm, and is
578 # only used when building the KMDB disasm module.
579 #
580 usr/lib/libstanddisasm.so
581 usr/lib/amd64/libstanddisasm.so         i386
582 usr/lib/sparcv9/libstanddisasm.so       sparc
583 #
584 # TSol: tsol doesn't ship lint source, and tsnet isn't for customers at all.
585 #
586 lib/libtsnet.so
587 usr/lib/llib-ltsnet
588 usr/lib/llib-ltsol
589 #

```

new/exception_lists/packaging

10

```

590 # nss interfaces shared between libnsl and other ON libraries.
591 #
592 usr/include/nss.h
593 #
594 # AT&T AST (ksh93) files which are currently needed only to build OS/Net
595 # (msgcc&co.)
596 # libast
597 usr/lib/libast.so
598 usr/lib/amd64/libast.so                 i386
599 usr/lib/sparcv9/libast.so               sparc
600 usr/lib/llib-last
601 usr/lib/llib-last.ln
602 usr/lib/amd64/llib-last.ln             i386
603 usr/lib/sparcv9/llib-last.ln           sparc
604 # libcmd
605 usr/lib/llib-lcmd
606 usr/lib/llib-lcmd.ln
607 usr/lib/amd64/llib-lcmd.ln             i386
608 usr/lib/sparcv9/llib-lcmd.ln           sparc
609 # libdll
610 usr/lib/libdll.so
611 usr/lib/amd64/libdll.so                 i386
612 usr/lib/sparcv9/libdll.so               sparc
613 usr/lib/llib-ldll
614 usr/lib/llib-ldll.ln
615 usr/lib/amd64/llib-ldll.ln             i386
616 usr/lib/sparcv9/llib-ldll.ln           sparc
617 # libpp (a helper library needed by AST's msgcc)
618 usr/lib/libpp.so
619 usr/lib/llib-lpp
620 usr/lib/llib-lpp.ln
621 usr/lib/locale/C/LC_MESSAGES/libpp
622 # libshell
623 usr/lib/libshell.so
624 usr/lib/amd64/libshell.so               i386
625 usr/lib/sparcv9/libshell.so             sparc
626 usr/lib/llib-lshell
627 usr/lib/llib-lshell.ln
628 usr/lib/amd64/llib-lshell.ln           i386
629 usr/lib/sparcv9/llib-lshell.ln         sparc
630 # libsum
631 usr/lib/libsum.so
632 usr/lib/amd64/libsum.so                 i386
633 usr/lib/sparcv9/libsum.so               sparc
634 usr/lib/llib-lsum
635 usr/lib/llib-lsum.ln
636 usr/lib/amd64/llib-lsum.ln             i386
637 usr/lib/sparcv9/llib-lsum.ln           sparc
638 #
639 # This file is used in ON to build DSCP clients. It is not for customers.
640 #
641 usr/include/libdscp.h                   sparc
642 #
643 # These files are used by the iSCSI Target and the iSCSI Initiator
644 #
645 usr/include/sys/iscsi_protocol.h
646 usr/include/sys/iscsi_authclient.h
647 usr/include/sys/iscsi_authclientglue.h
648 #
649 # These files are used by the COMSTAR iSCSI target port provider
650 #
651 usr/include/sys/idm
652 usr/include/sys/iscsit/chap.h
653 usr/include/sys/iscsit/iscsi_if.h
654 usr/include/sys/iscsit/isns_protocol.h
655 usr/include/sys/iscsit/radius_packet.h

```

new/exception_lists/packaging

```

656 usr/include/sys/iscsit/radius_protocol.h
657 #
658 # libshare is private and the 64-bit sharemgr is not delivered.
659 #
660 usr/lib/libshare.so
661 usr/lib/amd64/libshare.so          i386
662 usr/lib/sparcv9/libshare.so       sparc
663 usr/lib/fs/autofs/libshare_autofs.so
664 usr/lib/fs/autofs/amd64/libshare_autofs.so          i386
665 usr/lib/fs/autofs/sparcv9/libshare_autofs.so       sparc
666 usr/lib/fs/nfs/libshare_nfs.so
667 usr/lib/fs/nfs/amd64/libshare_nfs.so          i386
668 usr/lib/fs/nfs/sparcv9/libshare_nfs.so         sparc
669 usr/lib/fs/smb/libshare_smb.so
670 usr/lib/fs/smb/amd64/libshare_smb.so          i386
671 usr/lib/fs/smb/sparcv9/libshare_smb.so        sparc
672 usr/lib/fs/smbfs/libshare_smbfs.so
673 usr/lib/fs/smbfs/amd64/libshare_smbfs.so       i386
674 usr/lib/fs/smbfs/sparcv9/libshare_smbfs.so    sparc
675 usr/include/libshare_impl.h
676 usr/include/scfutil.h
677 #
678 # These files are installed in the proto area by the build of libpri for
679 # the benefit of the builds of FMA libldom, Zeus, picld plugins, and/or
680 # other libpri consumers. However, the libpri interfaces are private to
681 # Sun (Consolidation Private) and not intended for customer use. So these
682 # files (the symlink and the lint library) are excluded from packaging.
683 #
684 usr/lib/libpri.so                 sparc
685 usr/lib/llib-lpri                sparc
686 usr/lib/llib-lpri.ln             sparc
687 usr/lib/sparcv9/libpri.so         sparc
688 usr/lib/sparcv9/llib-lpri.ln     sparc
689 #
690 # These files are installed in the proto area by the build of libds for
691 # the benefit of the builds of sun4v IO FMA and/or other libds
692 # consumers. However, the libds interfaces are private to Sun
693 # (Consolidation Private) and not intended for customer use. So these
694 # files (the symlink and the lint library) are excluded from packaging.
695 #
696 usr/lib/libds.so                  sparc
697 usr/lib/sparcv9/libds.so          sparc
698 usr/lib/llib-lds                 sparc
699 usr/lib/llib-lds.ln              sparc
700 usr/lib/sparcv9/llib-lds.ln      sparc
701 usr/lib/libdscfg.so
702 usr/lib/llib-ldscfg.ln
703 usr/platform/sun4v/include/sys/libds.h  sparc
704 usr/platform/sun4v/include/sys/vlds.h  sparc
705 #
706 # Private/Internal u8_textprep header file. Do not ship.
707 #
708 usr/include/sys/u8_textprep_data.h
709 #
710 # SQLite is private, used by SMF (svc.configd), idmapd and libsmb.
711 #
712 usr/include/sqlite
713 usr/lib/libsqlite-native.o
714 usr/lib/libsqlite.o
715 usr/lib/llib-lsqlite.ln
716 usr/lib/smbdrv/libsqlite.so
717 #
718 # Private/Internal kiconv header files. Do not ship.
719 #
720 usr/include/sys/kiconv_big5_utf8.h
721 usr/include/sys/kiconv_ck_common.h

```

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new/exception_lists/packaging

```

722 usr/include/sys/kiconv_cp950hkscs_utf8.h
723 usr/include/sys/kiconv_emea1.h
724 usr/include/sys/kiconv_emea2.h
725 usr/include/sys/kiconv_euckr_utf8.h
726 usr/include/sys/kiconv_euctw_utf8.h
727 usr/include/sys/kiconv_gb18030_utf8.h
728 usr/include/sys/kiconv_gb2312_utf8.h
729 usr/include/sys/kiconv_hkscs_utf8.h
730 usr/include/sys/kiconv_ja_jis_to_unicode.h
731 usr/include/sys/kiconv_ja_unicode_to_jis.h
732 usr/include/sys/kiconv_ja.h
733 usr/include/sys/kiconv_ko.h
734 usr/include/sys/kiconv_latin1.h
735 usr/include/sys/kiconv_sc.h
736 usr/include/sys/kiconv_tc.h
737 usr/include/sys/kiconv_uhc_utf8.h
738 usr/include/sys/kiconv_utf8_big5.h
739 usr/include/sys/kiconv_utf8_cp950hkscs.h
740 usr/include/sys/kiconv_utf8_euckr.h
741 usr/include/sys/kiconv_utf8_euctw.h
742 usr/include/sys/kiconv_utf8_gb18030.h
743 usr/include/sys/kiconv_utf8_gb2312.h
744 usr/include/sys/kiconv_utf8_hkscs.h
745 usr/include/sys/kiconv_utf8_uhc.h
746 #
747 # At this time, the ttydefs.cleanup file is only useful on sun4u systems
748 #
749 etc/flash/postdeployment/ttydefs.cleanup          i386
750 #
751 # This header file is shared only between the power commands and
752 # ppm/srn modules # and should not be in any package
753 #
754 usr/include/sys/srn.h
755 #
756 # Private/Internal header files of smbdrv. Do not ship.
757 #
758 usr/include/smb
759 usr/include/smbdrv
760 #
761 # Private/Internal dtrace scripts of smbdrv. Do not ship.
762 #
763 usr/lib/smbdrv/dtrace
764 #
765 # Private/Internal (lint) libraries of smbdrv. Do not ship.
766 #
767 usr/lib/reparse/llib-lreparse_smb
768 usr/lib/reparse/llib-lreparse_smb.ln
769 usr/lib/smbdrv/llib-lmlrpc
770 usr/lib/smbdrv/llib-lmlrpc.ln
771 usr/lib/smbdrv/llib-lmlsvc
772 usr/lib/smbdrv/llib-lmlsvc.ln
773 usr/lib/smbdrv/llib-lsmb
774 usr/lib/smbdrv/llib-lsmb.ln
775 usr/lib/smbdrv/llib-lsmbns
776 usr/lib/smbdrv/llib-lsmbns.ln
777 #
778 #
779 # Private/Internal 64-bit libraries of smbdrv. Do not ship.
780 #
781 usr/lib/smbdrv/amd64          i386
782 usr/lib/smbdrv/sparcv9       sparc
783 #
784 usr/lib/reparse/amd64/libreparse_smb.so          i386
785 usr/lib/reparse/amd64/libreparse_smb.so.1       i386
786 usr/lib/reparse/amd64/llib-lreparse_smb.ln     i386
787 usr/lib/reparse/sparcv9/libreparse_smb.so       sparc

```

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new/exception_lists/packaging

13

```

788 usr/lib/reparse/sparcv9/libreparse_smb.so.1      sparc
789 usr/lib/reparse/sparcv9/llib-lreparse_smb.ln   sparc
790 #
791 # Private dirent, extended to include flags, for use by SMB server
792 #
793 usr/include/sys/extdirent.h
794 #
795 # Private header files for vs SCAN service
796 #
797 usr/include/libvscan.h
798 usr/include/sys/vscan.h
799 #
800 # libvscan is private
801 #
802 usr/lib/vscan/llib-lvscan
803 usr/lib/vscan/llib-lvscan.ln
804 #
805 # i86hvm is not a full platform. It is just a home for paravirtualized
806 # drivers. There is no usr/ component to this sub-platform, but the
807 # directory is created in the proto area to keep other tools happy.
808 #
809 usr/platform/i86hvm                                i386
810 #
811 # Private sdcard framework headers
812 #
813 usr/include/sys/sdcard
814 #
815 # libsmbfs is private
816 #
817 usr/include/netsmb
818 usr/lib/libnetsmb.so
819 usr/lib/amd64/libnetsmb.so                        i386
820 usr/lib/sparcv9/libnetsmb.so                    sparc
821 usr/lib/llib-lsmbfs
822 usr/lib/llib-lsmbfs.ln
823 usr/lib/amd64/llib-lsmbfs.ln                    i386
824 usr/lib/sparcv9/llib-lsmbfs.ln                  sparc
825 #
826 # demo & test program for smbfs (private) ACL support
827 #
828 usr/lib/fs/smbfs/chacl
829 usr/lib/fs/smbfs/lsacl
830 usr/lib/fs/smbfs/testnp
831 #
832 # FC related files
833 kernel/kmdb/fcip                                i386
834 kernel/kmdb/amd64/fcip                          i386
835 kernel/kmdb/sparcv9/fcip                        sparc
836 kernel/kmdb/fcp                                i386
837 kernel/kmdb/amd64/fcp                          i386
838 kernel/kmdb/sparcv9/fcp                        sparc
839 kernel/kmdb/fctl                                i386
840 kernel/kmdb/amd64/fctl                          i386
841 kernel/kmdb/sparcv9/fctl                        sparc
842 kernel/kmdb/qlc                                i386
843 kernel/kmdb/amd64/qlc                          i386
844 kernel/kmdb/sparcv9/qlc                        sparc
845 lib/llib-la5k                                  sparc
846 lib/llib-la5k.ln                               sparc
847 lib/sparcv9/llib-la5k.ln                       sparc
848 lib/llib-lg_fc                                 sparc
849 lib/llib-lg_fc.ln                              sparc
850 lib/sparcv9/llib-lg_fc.ln                      sparc
851 usr/include/a_state.h                          sparc
852 usr/include/a5k.h                              sparc
853 usr/include/exec.h                              sparc

```

new/exception_lists/packaging

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```

854 usr/include/g_scsi.h                          sparc
855 usr/include/g_state.h                         sparc
856 usr/include/gfc.h                             sparc
857 usr/include/l_common.h                       sparc
858 usr/include/l_error.h                        sparc
859 usr/include/rom.h                             sparc
860 usr/include/stgcom.h                         sparc
861 usr/include/sys/fibre-channel
862 usr/lib/llib-LHBAAPI
863 usr/lib/llib-LHBAAPI.ln
864 usr/lib/amd64/llib-LHBAAPI.ln                i386
865 usr/lib/sparcv9/llib-LHBAAPI.ln             sparc
866 #
867 usr/bin/dscfgcli
868 usr/bin/sd_diag
869 usr/bin/sd_stats
870 usr/include/nsctl.h
871 usr/include/sys/ncall
872 usr/include/sys/nsc_ddi.h
873 usr/include/sys/nsc_thread.h
874 usr/include/sys/nsctl
875 usr/include/sys/nskernd.h
876 usr/include/sys/unistat
877 usr/lib/libnsctl.so
878 usr/lib/librdc.so
879 usr/lib/libunistat.so
880 usr/lib/llib-lnsctl.ln
881 usr/lib/llib-lrdc.ln
882 usr/lib/llib-lunistat.ln
883 #
884 # These files are used by the iSCSI initiator only.
885 # No reason to ship them.
886 #
887 usr/include/sys/scsi/adapters/iscsi_door.h
888 usr/include/sys/scsi/adapters/iscsi_if.h
889 #
890 # sbd ioctl hdr
891 #
892 usr/include/sys/stmf_sbd_ioctl.h
893 #
894 # proxy port provider interface
895 #
896 usr/include/sys/pppt_ic_if.h
897 usr/include/sys/pppt_ioctl.h
898 #
899 # proxy daemon lint library
900 #
901 usr/lib/llib-lstmfproxy
902 usr/lib/llib-lstmfproxy.ln
903 usr/lib/amd64/llib-lstmfproxy.ln              i386
904 usr/lib/sparcv9/llib-lstmfproxy.ln           sparc
905 #
906 # portable object file and dictionary used by libfmd_msg test
907 #
908 usr/lib/fm/dict/TEST.dict
909 usr/lib/locale/C/LC_MESSAGES/TEST.mo
910 usr/lib/locale/C/LC_MESSAGES/TEST.po
911 #
912 # Private idmap RPC protocol
913 #
914 usr/include/rpcsvc/idmap_prot.h
915 usr/include/rpcsvc/idmap_prot.x
916 #
917 # Private idmap directory API
918 #
919 usr/include/directory.h

```

```
920 #
921 # librstp is private for bridging
922 #
923 usr/include/stp_bpdu.h
924 usr/include/stp_in.h
925 usr/include/stp_vectors.h
926 usr/lib/librstp.so
927 usr/lib/llib-lrstp
928 usr/lib/llib-lrstp.ln
929 #
930 # Private nvfru API
931 #
932 usr/include/nvfru.h
933 #
934 # vrrp
935 #
936 usr/include/libvrrpadm.h
937 usr/lib/libvrrpadm.so
938 usr/lib/amd64/libvrrpadm.so          i386
939 usr/lib/sparcv9/libvrrpadm.so       sparc
940 usr/lib/llib-lvrrpadm
941 usr/lib/llib-lvrrpadm.ln
942 usr/lib/amd64/llib-lvrrpadm.ln     i386
943 usr/lib/sparcv9/llib-lvrrpadm.ln   sparc
944 #
945 # This is only used during the -t tools build
946 #
947 opt/onbld/bin/i386/elfsign          i386
948 opt/onbld/bin/sparc/elfsign         sparc

950 #
951 # Private libdwarf
952 #
953 opt/onbld/lib/i386/libdwarf.so      i386
954 opt/onbld/lib/sparc/libdwarf.so     sparc

956 #
957 # Private socket filter API
958 #
959 usr/include/sys/sockfilter.h
960 #
961 # We don't actually validate license action payloads, and the license
962 # staging area is provided as a separate basedir for package
963 # publication. The net result is that everything therein should be
964 # ignored for packaging validation.
965 #
966 licenses
967 #
968 # Libbe is private
969 #
970 usr/include/libbe_priv.h
971 #
972 # ipmi is at present only useful on i386, but for historical reasons is
973 # delivered on SPARC and used by the build.
974 #
975 usr/include/sys/ipmi.h             sparc

977 #
978 # libsaveargs is private
979 #
980 usr/include/saveargs.h             i386
981 usr/lib/amd64/libsaveargs.so       i386
982 usr/lib/amd64/libstandsaveargs.so  i386
983 usr/lib/amd64/llib-lsaveargs.ln   i386
984 #endif /* ! codereview */
```


new/usr/src/cmd/mdb/intel/amd64/Makefile.kmdb

1

1038 Sun Feb 24 21:11:27 2013

new/usr/src/cmd/mdb/intel/amd64/Makefile.kmdb

saveargs: Implement as libsaveargs

```
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 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 KMDBML += \
27     kaif_invoke.s \
28     kmdb_start.s

30 KMDBSRCS += \
31     kmdb_makecontext.c \
32     mdb_amd64util.c
32     mdb_amd64util.c \
33     saveargs.c

35 %.o: $(SRC)/common/saveargs/%.c
36     $(COMPILE.c) $<
37     $(CTFCONVERT_0)

39 %.ln: $(SRC)/common/saveargs/%.c
40     $(LINT.c) -c $<

34 SACPPFLAGS = -D__$(MACH64) -U__$(MACH)
43 CPPFLAGS += -I$(SRC)/common/saveargs
```

new/usr/src/cmd/mdb/intel/amd64/kmdb/Makefile

1

2459 Sun Feb 24 21:11:28 2013

new/usr/src/cmd/mdb/intel/amd64/kmdb/Makefile

saveargs: Implement as libsaveargs

```
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 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 #
27 # Build and link kmdb
28 #
29 all: $(PROG) kmdb_modlinktest.o

31 %.o: ../../kmdb/%.c
32     $(COMPILE.c) $<
33     $(CTFCONVERT_O)

35 %.o: ../../mdb/%.c
36     $(COMPILE.c) $<
37     $(CTFCONVERT_O)

39 %.o: $(SRC)/common/dis/i386/%.c
40     $(COMPILE.c) $<
41     $(CTFCONVERT_O)

43 %.ln: ../../kmdb/%.c
44     $(LINT.c) -c $<

46 %.ln: ../../mdb/%.c
47     $(LINT.c) -c $<

49 %.ln: $(SRC)/common/dis/i386/%.c
50     $(LINT.c) -c $<

52 ROOT_MISC_DIR      = $(ROOT)/kernel/misc
53 ROOT_MISC_DIR_64   = $(ROOT_MISC_DIR)/$(SUBDIR64)

55 ROOTMISC           = $(ROOT_MISC_DIR)/$(PROG)
56 ROOTMISC64         = $(ROOT_MISC_DIR_64)/$(PROG)

58 include ../../../../Makefile.cmd
59 include ../../../../Makefile.cmd.64

61 include ../../Makefile.amd64
```

new/usr/src/cmd/mdb/intel/amd64/kmdb/Makefile

2

```
62 include ../../../../Makefile.kmdb

64 STANDLIBS += $(ROOT)/usr/lib/amd64/libstanddisasm.so
65 STANDLIBS += $(ROOT)/usr/lib/amd64/libstandsaveargs.so
66 #endif /* ! codereview */

68 INCDIRS += $(SRC)/uts/i86pc $(SRC)/common/dis/i386

70 CPPFLAGS += -DDIS_TEXT

72 install: all $(ROOTMISC64)

74 #
75 # lint rules
76 #

78 .PARALLEL: lintkmdb lintprom linkctl

80 lint: lintkmdb lintprom linkctl
81     $(LINT) $(ALLLINTFLAGS) $(KMDBOBS:%.o=%.ln) $(PROMOBS:%.o=%.ln)

83 lintkmdb: $(KMDBOBS:%.o=%.ln)
84     $(LINT) $(LINTFLAGS) $(KMDBOBS:%.o=%.ln)

86 lintprom: $(PROMOBS:%.o=%.ln)
87     $(LINT) $(LINTFLAGS) $(PROMOBS:%.o=%.ln)

89 linkctl: $(KCTLOBS:%.o=%.ln)
90     $(LINT) $(ALLLINTFLAGS) $(KCTLOBS:%.o=%.ln)

92 kmdb_context_off.h: ../../kmdb/kmdb_context_off.in
93     $(OFFSETS_CREATE) <../../kmdb/kmdb_context_off.in >${@}

95 #
96 # Installation targets
97 #

99 $(ROOT_MISC_DIR) $(ROOT_MISC_DIR_64):
100     -$(INS.dir)

102 $(ROOT_MISC_DIR)/%:    % $(ROOT_MISC_DIR)
103     $(INS.file)

105 $(ROOT_MISC_DIR_64)/%: % $(ROOT_MISC_DIR_64)
106     $(INS.file)
```

new/usr/src/cmd/mdb/intel/amd64/mdb/Makefile

1

1369 Sun Feb 24 21:11:28 2013

new/usr/src/cmd/mdb/intel/amd64/mdb/Makefile

saveargs: Implement as libsaveargs

saveargs: let disasm do the lifting

3544 save-args matcher could be considerably more robust

3545 save-args matcher should accept saves maybe out-of-order

Reviewed by: Joshua M. Clulow <josh@sysmgr.org>

```
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2 # CDDL HEADER START
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9 # or http://www.opensolaris.org/os/licensing.
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11 # and limitations under the License.
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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 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
```

```
26 SRCS = kvm_amd64dep.c \
27         kvm_isadep.c \
28         mdb_amd64util.c \
29         proc_amd64dep.c
29         proc_amd64dep.c \
30         saveargs.c
```

```
31 %.o: %.c
32     $(COMPILE.c) $<
33     $(CTFCONVERT_O)
```

```
35 %.o: ../../mdb/%.c
36     $(COMPILE.c) $<
37     $(CTFCONVERT_O)
```

```
40 %.o: $(SRC)/common/saveargs/%.c
41     $(COMPILE.c) $<
42     $(CTFCONVERT_O)
```

```
39 %.ln: %.c
40     $(LINT.c) -c $<
```

```
42 %.ln: ../../mdb/%.c
43     $(LINT.c) -c $<
```

```
50 %.ln: $(SRC)/common/saveargs/%.c
51     $(LINT.c) -c $<
```

```
45 include ../../../Makefile.cmd
46 include ../../../Makefile.cmd.64
47 include ../../Makefile.amd64
48 include ../../Makefile.mdb
```

new/usr/src/cmd/mdb/intel/amd64/mdb/Makefile

2

```
50 CPPFLAGS += -I../../mdb
```

```
51 LDLIBS += -lsaveargs
```

```
59 CPPFLAGS += -I$(SRC)/common/saveargs
```

```
53 install: all $(ISAEXEC) $(ROOTPROG64) $(ROOTLINK64)
```

```

*****
13786 Sun Feb 24 21:11:28 2013
new/usr/src/lib/Makefile
saveargs: Implement as libsaveargs
*****
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 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
23 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright (c) 2012 by Delphix. All rights reserved.

26 include ../Makefile.master

28 # Note that libcurses installs commands along with its library.
29 # This is a minor bug which probably should be fixed.
30 # Note also that a few extra libraries are kept in cmd source.
31 #
32 # Certain libraries are linked with, hence depend on, other libraries.
33 #
34 # Although we have historically used .WAIT to express dependencies, it
35 # reduces the amount of parallelism and thus lengthens the time it
36 # takes to build the libraries. Thus, we now require that any new
37 # libraries explicitly call out their dependencies. Eventually, all
38 # the library dependencies will be called out explicitly. See
39 # "Library interdependencies" near the end of this file.
40 #
41 # Aside from explicit dependencies (and legacy .WAITs), all libraries
42 # are built in parallel.
43 #
44 .PARALLEL:

46 #
47 # The $(CLOSED_BUILD) additions to SUBDIRS & MSGSUBDIRS are unfortunate,
48 # but required due to the "dependencies" of using .WAIT to barrier the
49 # parallel dmake builds. once 4631488 has been fixed, they can be
50 # consolidated into one $(CLOSED_BUILD)SUBDIRS += (all closed libs) as
51 # shown in HDRSUBDIRS
52 #
53 SUBDIRS= \
54     common .WAIT \
55     ../cmd/sgs/libconv \
56     ../cmd/sgs/libdl .WAIT

58 SUBDIRS += \
59     libc .WAIT \
60     ../cmd/sgs/libelf .WAIT \
61     c_synonyms \

```

```

62     libmd \
63     libmd5 \
64     libbrsm \
65     libmp .WAIT \
66     libnsl \
67     libsecdb .WAIT \
68     librpcsvc \
69     libsocket .WAIT \
70     libsctp \
71     libsip \
72     libcommputil \
73     libresolv \
74     libresolv2 .WAIT \
75     libw .WAIT \
76     libintl .WAIT \
77     ../cmd/sgs/librtld_db \
78     libaio \
79     libast \
80     libdll \
81     libcmd \
82     libshell \
83     libsum \
84     librt \
85     libadm \
86     libctf \
87     libdtrace \
88     libdtrace_jni \
89     libcurses \
90     libtermcap \
91     libgen \
92     libgss \
93     libpam \
94     libuuid \
95     libthread \
96     libpthread .WAIT \
97     libslp \
98     libbsdmalloc \
99     libdoor \
100    libdevinfo \
101    libdladm \
102    libdlpi \
103    libeti \
104    libcrypt \
105    libdns_sd \
106    libefi \
107    libfstyp \
108    libwanboot \
109    libwanbootutil \
110    libcryptoutil \
111    libinetutil \
112    libipadm \
113    libipmp \
114    libiscsit \
115    libkmf \
116    libkstat \
117    libkvm \
118    liblm \
119    libmalloc \
120    libmapmalloc \
121    libmtmalloc \
122    libnls \
123    libnwam \
124    libsbmbios \
125    libtecla \
126    libumem \
127    libnvpair .WAIT \

```

new/usr/src/lib/Makefile

```

128 libexacct \
129 libsas1 \
130 libldap5 \
131 libslldap .WAIT \
132 libbsm \
133 libsys \
134 libsysevent \
135 libnisdb \
136 libpool \
137 libpp \
138 libproc \
139 libproject \
140 libsendfile \
141 nametoaddr \
142 ncad_addr \
143 hbaapi \
144 smhba \
145 sun_fc \
146 sun_sas \
147 gss_mechs/mech_krb5 .WAIT \
148 libkrb5 .WAIT \
149 krb5 .WAIT \
150 libsbmfs \
151 libfcoe \
152 libsrpt \
153 libstmf \
154 libstmfproxy \
155 libnsctl \
156 libunistat \
157 libdscfg \
158 librdc \
159 libinstzones \
160 libpkg

162 SUBDIRS += \
163 passwdutil \
164 pam_modules \
165 crypt_modules \
166 libadt_jni \
167 abi \
168 auditd_plugins \
169 libvolmgt \
170 libdevice \
171 libdevice \
172 libdhcpsvc \
173 libc_db \
174 libndmp \
175 libsec \
176 libtnfprobe \
177 libtnf \
178 libtnfctl \
179 libdhcpagent \
180 libdhcpdu \
181 libdhcputil \
182 libxnet \
183 libipsecutil

184 $(CLOSED_BUILD)SUBDIRS += \
185 $(CLOSED)/lib/libike

186 SUBDIRS += \
187 nsswitch \
188 print \
189 libuutil \
190 libscf \
191 libinetsvc \
192 librestart \
193 libsched

```

3

new/usr/src/lib/Makefile

```

194 libelfsign \
195 pkcs11 .WAIT \
196 libpctx .WAIT \
197 libcpc \
198 watchmalloc \
199 extendedFILE \
200 madv \
201 mpss \
202 libdisasm \
203 libwrap \
204 libxcurses \
205 libxcurses2 \
206 libbrand .WAIT \
207 libzonecfg \
208 libzoneinfo \
209 libzonestat \
210 libtsnet \
211 libtsol \
212 gss_mechs/mech_spnego \
213 gss_mechs/mech_dummy \
214 gss_mechs/mech_dh \
215 rpcsec_gss \
216 libraidcfg .WAIT \
217 librcm .WAIT \
218 libcfgadm .WAIT \
219 libpicl .WAIT \
220 libpicltree .WAIT \
221 raidcfg_plugins \
222 cfgadm_plugins \
223 libmail \
224 lvm \
225 libsmmedia \
226 libipp \
227 libdiskmgt \
228 liblgrp \
229 libfsmgt \
230 fm \
231 libavl \
232 libcmdutils \
233 libcontract \
234 ../cmd/sendmail/libmilter \
235 sasl_plugins \
236 udapl \
237 libzpool \
238 libzfs_core \
239 libzfs \
240 libbe \
241 pylibbe \
242 libzfs_jni \
243 pyzfs \
244 pysolaris \
245 libmapid \
246 brand \
247 policykit \
248 hal \
249 libshare \
250 libsqlite \
251 libidmap \
252 libadutils \
253 libipmi \
254 libexacct/demo \
255 libvrrpadm \
256 libvscan \
257 libgrubmgt \
258 smbsrv \
259 libilb

```

4

new/usr/src/lib/Makefile

5

```

260     scsi          \
261     libima        \
262     libsun_ima    \
263     mpapi         \
264     librstp      \
265     libreparsed   \
266     libhotplug    \
267     libfruutils   .WAIT  \
268     libfru        \
269     $( $(MACH)_SUBDIRS)

271 i386_SUBDIRS=    \
272     libntfs       \
273     libparted     \
274     libfdisk      \
275     libsaveargs   \
274     libfdisk

277 sparc_SUBDIRS=  .WAIT  \
278     efcode        \
279     libds         \
280     libdscp       \
281     libprtdiag    .WAIT  \
282     libprtdiag_psr \
283     libpri        \
284     librscl       \
285     storage       \
286     libpcp        \
287     libtsalarm    \
288     libv12n

290 FM_sparc_DEPLIBS= libpri

292 fm:              \
293     libexacct     \
294     libipmi       \
295     libzfs        \
296     scsi          \
297     $(FM_$(MACH)_DEPLIBS)

299 #
300 # Create a special version of $(SUBDIRS) with no .WAIT's, for use with the
301 # clean and clobber targets (for more information, see those targets, below).
302 #
303 NOWAIT_SUBDIRS= $(SUBDIRS:.WAIT=)

305 DCSSUBDIRS =     \
306     lvm

308 MSGSUBDIRS=      \
309     abi           \
310     auditd_plugins \
311     brand         \
312     cfgadm_plugins \
313     gss_mechs/mech_dh \
314     gss_mechs/mech_krb5 \
315     krb5          \
316     libast        \
317     libbsm        \
318     libc          \
319     libcfgadm     \
320     libcmd        \
321     libcontract   \
322     libcurses     \
323     libdhcpsvc    \
324     libdhcputil   \

```

new/usr/src/lib/Makefile

6

```

325     libipsecutil  \
326     libdiskmgmt   \
327     libdladm      \
328     libdll        \
329     libgrubmgmt   \
330     libgss        \
331     libidmap      \
332     libipmp       \
333     libilb        \
334     libinetutil   \
335     libinstzones  \
336     libipadm      \
337     libnsl        \
338     libnwam       \
339     libpam        \
340     libpicl       \
341     libpool       \
342     libpkg        \
343     libpp         \
344     libscf        \
345     libsas1       \
346     libldap5     \
347     libsecdb      \
348     libshare      \
349     libshell      \
350     libslldap     \
351     libslp        \
352     libsmbfs      \
353     libsmmedia    \
354     libsum        \
355     libtsol       \
356     libuutil      \
357     libvrrpadm    \
358     libvscan      \
359     libwanboot    \
360     libwanbootutil \
361     libzfs        \
362     libzonecfg    \
363     lvm           \
364     madv          \
365     mpss          \
366     pam_modules   \
367     pyzfs         \
368     pysolaris     \
369     rpcsec_gss    \
370     libreparsed   \
371     MSGSUBDIRS += \
372     $( $(MACH)_MSGSUBDIRS)

374 sparc_MSGSUBDIRS= \
375     libprtdiag     \
376     libprtdiag_psr \

378 i386_MSGSUBDIRS= libfdisk

380 HDRSUBDIRS=      \
381     auditd_plugins \
382     libast         \
383     libbrand       \
384     libbsm        \
385     libc          \
386     libcmd        \
387     libcmdutils   \
388     libcomputil   \
389     libcontract   \
390     libpcp        \

```

new/usr/src/lib/Makefile

```

391 libctf \
392 libcurses \
393 libtermcap \
394 libcryptoutil \
395 libdevice \
396 libdevind \
397 libdevinfo \
398 libdiskmgt \
399 libdladm \
400 libdll \
401 libdlpi \
402 libdhcpagent \
403 libdhcpsvc \
404 libdhcputil \
405 libdisasm \
406 libdns_sd \
407 libdscfg \
408 libdtrace \
409 libdtrace_jni \
410 libelfsign \
411 libeti \
412 libfru \
413 libfstyp \
414 libgen \
415 libipadm \
416 libipsecutil \
417 libinetsvc \
418 libinetutil \
419 libinstzones \
420 libipmi \
421 libipmp \
422 libipp \
423 libiscsit \
424 libkstat \
425 libkvm \
426 libmail \
427 libmd \
428 libmtmalloc \
429 libndmp \
430 libnvpair \
431 libnsctl \
432 libnsl \
433 libnwam \
434 libpam \
435 libpctx \
436 libpicl \
437 libpicltree \
438 libpool \
439 libpp \
440 libproc \
441 libraidcfg \
442 librcm \
443 librdc \
444 libscf \
445 libsip \
446 libsbios \
447 librestart \
448 librpcsvc \
449 librsn \
450 librstp \
451 libsas1 \
452 libsec \
453 libshell \
454 libslp \
455 libsmmedia \
456 libsocket \

```

7

new/usr/src/lib/Makefile

```

457 libsqlite \
458 libfcoe \
459 libsrpt \
460 libstmf \
461 libstmfproxy \
462 libsum \
463 libsysevent \
464 libtecla \
465 libtnf \
466 libtnfctl \
467 libtnfprobe \
468 libtsnet \
469 libtsol \
470 libvrrpadm \
471 libvolmgt \
472 libumem \
473 libunistat \
474 libuutil \
475 libwanboot \
476 libwanbootutil \
477 libwrap \
478 libxcurses2 \
479 libzfs \
480 libzfs_core \
481 libzfs_jni \
482 libzoneinfo \
483 libzonestat \
484 hal \
485 policykit \
486 lvm \
487 pkcs11 \
488 passwdutil \
489 ../cmd/sendmail/libmilter \
490 fm \
491 udapl \
492 libmapid \
493 libkrb5 \
494 libsmbfs \
495 libshare \
496 libidmap \
497 libvscan \
498 libgrubmgt \
499 smbstrv \
500 libilb \
501 scsi \
502 hbaapi \
503 smhba \
504 libima \
505 libsun_ima \
506 mpapi \
507 librepase \
508 $(MACH)_HDRSUBDIRS)

510 $(CLOSED_BUILD)HDRSUBDIRS += \
511 $(CLOSED)/lib/libike

513 i386_HDRSUBDIRS= \
514 libparted \
515 libfdisk \
516 libsaveargs \
517 libfdisk

518 sparc_HDRSUBDIRS= \
519 libds \
520 libdscp \
521 libpri \

```

8

```

522 libv12n \
523 storage

525 all := TARGET= all
526 check := TARGET= check
527 clean := TARGET= clean
528 clobber := TARGET= clobber
529 install := TARGET= install
530 install_h := TARGET= install_h
531 lint := TARGET= lint
532 _dc := TARGET= _dc
533 _msg := TARGET= _msg

535 .KEEP_STATE:

537 #
538 # For the all and install targets, we clearly must respect library
539 # dependencies so that the libraries link correctly. However, for
540 # the remaining targets (check, clean, clobber, install_h, lint, _dc
541 # and _msg), libraries do not have any dependencies on one another
542 # and thus respecting dependencies just slows down the build.
543 # As such, for these rules, we use pattern replacement to explicitly
544 # avoid triggering the dependency information. Note that for clean,
545 # clobber and lint, we must use $(NOWAIT_SUBDIRS) rather than
546 # $(SUBDIRS), to prevent `.WAIT' from expanding to `.WAIT-nodepend'.
547 #

549 all: $(SUBDIRS)

551 install: $(SUBDIRS) .WAIT install_extra

553 # extra libraries kept in other source areas
554 install_extra:
555     @cd ../cmd/sgs; pwd; $(MAKE) install_lib
556     @pwd

558 clean clobber lint: $(NOWAIT_SUBDIRS:%=-nodepend)

560 install_h check: $(HDRSUBDIRS:%=-nodepend)

562 _msg: $(MSGSUBDIRS:%=-nodepend) .WAIT _dc

564 _dc: $(DCSUBDIRS:%=-nodepend)

566 #
567 # Library interdependencies are called out explicitly here
568 #
569 auditd_plugins: libbsm libnsl libsecdb
570 gss_mechs/mech_krb5: libgss libnsl libsocket libresolv pkcs11
571 libadt_jni: libbsm
572 libast: libsocket
573 libadutils: libldap5 libresolv libsocket libnsl
574 nsswitch: libadutils libidmap
575 libbe: libzfs
576 libbsm: libtsol
577 libcmd: libsum libast libsocket libnsl
578 libcmdutils: libavl
579 libcontract: libnvpair
580 libdevinfo: libdevinfo
581 libdevinfo: libnvpair libsec
582 libdhcpcagent: libsocket libdhcputil libuuid libdlpi libcontract
583 libdhcpsvc: libinetutil
584 libdhcputil: libnsl libgen libinetutil libdlpi
585 libdladm: libdevinfo libinetutil libsocket libscf librcm libnvpair \
586     libxacct libnsl libkstat libcurses
587 libdll: libast

```

```

588 libdlpi: libinetutil libdladm
589 libds: libsysevent
590 libdscfg: libnsctl libunistat libsocket libnsl
591 libdtrace: libproc libgen libctf
592 libdtrace_jni: libuutil libdtrace
593 libefi: libuuid
594 libfstyp: libnvpair
595 libelfsign: libcryptoutil libkmf
596 libidmap: libadutils libldap5 libavl libsldap libuutil
597 libipadm: libnsl libinetutil libsocket libdlpi libnvpair libdhcpcagent \
598     libdladm libsecdb
599 libiscsit: libc libnvpair libstmf libuuid libnsl
600 libkmf: libcryptoutil pkcs11
601 libnsl: libmd5
602 libmapid: libresolv
603 librdc: libsocket libnsl libnsctl libunistat libdscfg
604 libuuid: libdlpi
605 $(CLOSED_BUILD)libike: libipseutil libxnet libcryptoutil
606 libinetutil: libsocket
607 libipseutil: libtecla libsocket
608 libinstzones: libzonecfg libcontract
609 libpkg: libwanboot libscf libadm
610 libnwam: libscf
611 libsecdb: libnsl
612 libsas1: libgss libsocket pkcs11 libmd
613 sasl_plugins: pkcs11 libgss libsocket libsas1
614 libscft: libsocket
615 libshell: libast libcmd libdll libsocket libsecdb
616 libsip: libmd5
617 libsmbsfs: libcmdutils libsocket libnsl libkrb5
618 libsocket: libnsl
619 libstmfproxy: libstmf libsocket libnsl libpthread
620 libsum: libast
621 libsysevent: libsecdb
622 libldap5: libsas1 libsocket libnsl libmd
623 libsldap: libldap5 libtsol libnsl libc libscf libresolv
624 libpool: libnvpair libxacct
625 libpp: libast
626 libzonecfg: libc libsocket libnsl libuuid libnvpair libsysevent libsec \
627     libbrand libpool libscf
628 libproc: ../cmd/sgs/librtld_db ../cmd/sgs/libelf libctf libsavargs
629 libproject: ../cmd/sgs/librtld_db ../cmd/sgs/libelf libctf
630 libtermcap: libcurses
631 libtsnet: libnsl libtsol libsecdb
632 libwrap: libnsl libsocket
633 libwanboot: libnvpair libresolv libnsl libsocket libdevinfo libinetutil \
634     libdhcputil
635 libwanbootutil: libnsl
636 pam_modules: libproject passwdutil smbsrv
637 libscf: libuutil libmd libgen libsbios libnsl
638 libinetsvc: libscf
639 librestart: libuutil libscf
640 libsavargs: libdisasm
641 #endif /* ! codereview */
642 ../cmd/sgs/libdl: ../cmd/sgs/libconv
643 ../cmd/sgs/libelf: ../cmd/sgs/libconv
644 pkcs11: libcryptoutil
645 print: libldap5
646 udapl/udapl_tavor: udapl/libdat
647 libzfs: libdevinfo libgen libnvpair libuutil \
648     libadm libavl libefi libidmap libmd libzfs_core
649 libzfs_core: libnvpair
650 libzfs_jni: libdiskmgt libnvpair libzfs
651 libzpool: libavl libumem libnvpair libcmdutils
652 libsec: libavl libidmap

```



```
653 brand:      libc libsocket
654 libshare:    libscf libzfs libuuid libfsmgmt libsecdb libumem libsmbfs
655 libexacct/demo: libexacct libproject libsocket libnsl
656 libtsalarm:  libpcp
657 sbsrv:       libsocket libnsl libmd libxnet libpthread librt \
658             libshare libidmap pkcs11 libsqlite libcryptoutil \
659             libreparse libcmdutils
660 libv12n:     libds libuuid
661 libvrrpadm:  libsocket libdladm libscf
662 libvscan:    libscf
663 libfru:      libfruutils
664 scsi:        libnvpair libfru
665 mpapi:       libpthread libdevinfo libsysevent libnvpair
666 sun_fc:      libdevinfo libsysevent libnvpair
667 libsun_ima:  libdevinfo libsysevent libnsl
668 sun_sas:     libdevinfo libsysevent libnvpair libkstat libdevid
669 libgrubmgmt: libdevinfo libzfs libfstyp
670 pylibbe:     libbe libzfs
671 pyzfs:       libnvpair libzfs
672 pysolaris:   libsec libidmap
673 libreparse:  libnvpair
674 libhotplug:  libnvpair
675 cfgadm_plugins: libhotplug
676 libilb:      libsocket
677 $(INTEL_BUILD)libdiskmgt:libfdisk

679 #
680 # The reason this rule checks for the existence of the
681 # Makefile is that some of the directories do not exist
682 # in certain situations (e.g., exportable source builds,
683 # OpenSolaris).
684 #
685 $(SUBDIRS): FRC
686     @if [ -f $@/Makefile ]; then \
687         cd $@; pwd; $(MAKE) $(TARGET); \
688     else \
689         true; \
690     fi

692 $(SUBDIRS:%=%-nodepend):
693     @if [ -f $@:%-nodepend%/Makefile ]; then \
694         cd $@:%-nodepend%; pwd; $(MAKE) $(TARGET); \
695     else \
696         true; \
697     fi

699 FRC:
```

new/usr/src/lib/libdisasm/common/libdisasm.h

1

```
*****
2389 Sun Feb 24 21:11:29 2013
new/usr/src/lib/libdisasm/common/libdisasm.h
saveargs: let disasm do the lifting
*****
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 #ifndef _LIBDISASM_H
28 #define _LIBDISASM_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

30 #include <sys/types.h>

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 typedef struct dis_handle dis_handle_t;

38 #define DIS_DEFAULT          0x0

40 /* SPARC disassembler flags */
41 #define DIS_SPARC_V8        0x01
42 #define DIS_SPARC_V9        0x02
43 #define DIS_SPARC_V9_SGI    0x04
44 #define DIS_SPARC_V9_OPL    0x08

46 /* x86 disassembler flags (mutually exclusive) */
47 #define DIS_X86_SIZE16      0x08
48 #define DIS_X86_SIZE32      0x10
49 #define DIS_X86_SIZE64      0x20

51 /* generic disassembler flags */
52 #define DIS_OCTAL            0x40
53 #define DIS_NOIMMSYM        0x80

55 typedef int (*dis_lookup_f)(void *, uint64_t, char *, size_t, uint64_t *,
56     size_t *);
57 typedef int (*dis_read_f)(void *, uint64_t, void *, size_t);

59 extern dis_handle_t *dis_handle_create(int, void *, dis_lookup_f, dis_read_f);
```

new/usr/src/lib/libdisasm/common/libdisasm.h

2

```
60 extern void dis_handle_destroy(dis_handle_t *);

62 extern int dis_disassemble(dis_handle_t *, uint64_t, char *, size_t);
63 extern uint64_t dis_previnstr(dis_handle_t *, uint64_t, int n);
64 extern void dis_set_data(dis_handle_t *, void *);
65 extern void dis_flags_set(dis_handle_t *, int f);
66 extern void dis_flags_clear(dis_handle_t *, int f);
67 extern int dis_max_instrlen(dis_handle_t *);
68 extern int dis_instrlen(dis_handle_t *, uint64_t);
69 #endif /* ! codereview */

71 /* libdisasm errors */
72 #define E_DIS_NOMEM          1          /* Out of memory */
73 #define E_DIS_INVALIDFLAG    2          /* Invalid flag for this architecture */

75 extern int dis_errno(void);
76 extern const char *dis_strerror(int);

78 #ifdef __cplusplus
79 }
80 #endif

82 #endif /* _LIBDISASM_H */
```

new/usr/src/lib/libdisasm/common/mapfile-vers

1

1507 Sun Feb 24 21:11:29 2013

new/usr/src/lib/libdisasm/common/mapfile-vers

saveargs: let disasm do the lifting

```
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20 #
21 #
22 # Copyright (c) 2006, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 #
25 #
26 # MAPFILE HEADER START
27 #
28 # WARNING: STOP NOW. DO NOT MODIFY THIS FILE.
29 # Object versioning must comply with the rules detailed in
30 #
31 #     usr/src/lib/README.mapfiles
32 #
33 # You should not be making modifications here until you've read the most current
34 # copy of that file. If you need help, contact a gatekeeper for guidance.
35 #
36 # MAPFILE HEADER END
37 #
38 #
39 $mapfile_version 2
40 #
41 SYMBOL_VERSION SUNWprivate_1.1 {
42     global:
43         dis_disassemble;
44         dis_errno;
45         dis_handle_create;
46         dis_handle_destroy;
47         dis_instrlen;
48 #endif /* ! codereview */
49         dis_max_instrlen;
50         dis_previnstr;
51         dis_set_data;
52         dis_flags_set;
53         dis_flags_clear;
54         dis_strerror;
55     local:
56         *;
57 };
```

```

*****
5644 Sun Feb 24 21:11:30 2013
new/usr/src/lib/libdisasm/i386/dis_i386.c
saveargs: let disasm do the lifting
*****

```

```

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19 * CDDL HEADER END
20 */

22 /*
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25  */

```

```
27 #pragma ident "%Z%M% %I% %E% SMI"
```

```
27 #include <libdisasm.h>
28 #include <stdlib.h>
29 #include <stdio.h>
```

```
31 #include "dis_tables.h"
32 #include "libdisasm_impl.h"
```

```
34 struct dis_handle {
35     void          *dh_data;
36     int           dh_flags;
37     dis_lookup_f dh_lookup;
38     dis_read_f    dh_read;
39     int           dh_mode;
40     dis86_t       dh_dis;
41     uint64_t      dh_addr;
42     uint64_t      dh_end;
43 };

```

```
unchanged_portion_omitted
```

```
247 int
248 dis_instrlen(dis_handle_t *dhp, uint64_t pc)
249 {
250     if (dis_disassemble(dhp, pc, NULL, 0) != 0)
251         return (-1);

253     return (dhp->dh_addr - pc);
254 }
255 #endif /* ! codereview */

```

```

*****
      8415 Sun Feb 24 21:11:30 2013
new/usr/src/lib/libdisasm/sparc/dis_sparc.c
saveargs: Implement as libsaveargs
saveargs: let disasm do the lifting
*****
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27 /*
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30 */

33 #pragma ident      "%Z%M% %I%      %E% SMI"

32 /*
33 * The sparc disassembler is mostly straightforward, each instruction is
34 * represented by an inst_t structure. The inst_t definitions are organized
35 * into tables. The tables are correspond to the opcode maps documented in the
36 * various sparc architecture manuals. Each table defines the bit range of the
37 * instruction whose value act as an index into the array of instructions. A
38 * table can also refer to another table if needed. Each table also contains
39 * a function pointer of type format_fcn that knows how to output the
40 * instructions in the table, as well as handle any synthetic instructions
41 *
42 * Unfortunately, the changes from sparcv8 -> sparcv9 not only include new
43 * instructions, they sometimes renamed or just reused the same instruction to
44 * do different operations (i.e. the sparcv8 coprocessor instructions). To
45 * accommodate this, each table can define an overlay table. The overlay table
46 * is a list of (table index, architecture, new instruction definition) values.
47 *
48 *
49 * Traversal starts with the first table,
50 * get index value from the instruction
51 * if an relevant overlay entry exists for this index,
52 * grab the overlay definition
53 * else
54 * grab the definition from the array (corresponding to the index value)
55 *
56 * If the entry is an instruction,
57 * call print function of instruction.

```

```

58 * If the entry is a pointer to another table
59 *   traverse the table
60 * If not valid,
61 *   return an error
62 *
63 *
64 * To keep dis happy, for sparc, instead of actually returning an error, if
65 * the instruction cannot be disassembled, we instead merely place the value
66 * of the instruction into the output buffer.
67 *
68 * Adding new instructions:
69 *
70 * With the above information, it hopefully makes it clear how to add support
71 * for decoding new instructions. Presumably, with new instructions will come
72 * a new disassembly mode (I.e. DIS_SPARC_V8, DIS_SPARC_V9, etc.).
73 *
74 * If the disassembled format does not correspond to one of the existing
75 * formats, a new formatter will have to be written. The 'flags' value of
76 * inst_t is intended to instruct the corresponding formatter about how to
77 * output the instruction.
78 *
79 * If the corresponding entry in the correct table is currently unoccupied,
80 * simply replace the INVALID entry with the correct definition. The INST and
81 * TABLE macros are suggested to be used for this. If there is already an
82 * instruction defined, then the entry must be placed in an overlay table. If
83 * no overlay table exists for the instruction table, one will need to be
84 * created.
85 */

87 #include <libdisasm.h>
88 #include <stdlib.h>
89 #include <stdio.h>
90 #include <sys/types.h>
91 #include <sys/byteorder.h>
92 #include <string.h>

94 #include "libdisasm_impl.h"
95 #include "dis_sparc.h"

97 static const inst_t *dis_get_overlay(dis_handle_t *, const table_t *,
98   uint32_t);
99 static uint32_t dis_get_bits(uint32_t, int, int);

101 #if !defined(DIS_STANDALONE)
102 static void do_binary(uint32_t);
103 #endif /* DIS_STANDALONE */

105 dis_handle_t *
106 dis_handle_create(int flags, void *data, dis_lookup_f lookup_func,
107   dis_read_f read_func)
108 {

110 #if !defined(DIS_STANDALONE)
111   char *opt = NULL;
112   char *opt2, *save, *end;
113 #endif
114   dis_handle_t *dhp;

116   if ((flags & (DIS_SPARC_V8|DIS_SPARC_V9|DIS_SPARC_V9_SGI)) == 0) {
117     (void) dis_seterrno(E_DIS_INVALIDFLAG);
118     return (NULL);
119   }

121   if ((dhp = dis_zalloc(sizeof (struct dis_handle))) == NULL) {
122     (void) dis_seterrno(E_DIS_NOMEM);
123     return (NULL);

```

```

124     }
126     dhp->dh_lookup = lookup_func;
127     dhp->dh_read = read_func;
128     dhp->dh_flags = flags;
129     dhp->dh_data = data;
130     dhp->dh_debug = DIS_DEBUG_COMPAT;

132 #if !defined(DIS_STANDALONE)

134     opt = getenv("LIBDISASM_DEBUG");
135     if (opt == NULL)
136         return (dhp);

138     opt2 = strdup(opt);
139     if (opt2 == NULL) {
140         dis_handle_destroy(dhp);
141         (void) dis_seterrno(E_DIS_NOMEM);
142         return (NULL);
143     }
144     save = opt2;

146     while (opt2 != NULL) {
147         end = strchr(opt2, ',');

149         if (end != 0)
150             *end++ = '\0';

152         if (strcasecmp("synth-all", opt2) == 0)
153             dhp->dh_debug |= DIS_DEBUG_SYN_ALL;

155         if (strcasecmp("compat", opt2) == 0)
156             dhp->dh_debug |= DIS_DEBUG_COMPAT;

158         if (strcasecmp("synth-none", opt2) == 0)
159             dhp->dh_debug &= ~(DIS_DEBUG_SYN_ALL|DIS_DEBUG_COMPAT);

161         if (strcasecmp("binary", opt2) == 0)
162             dhp->dh_debug |= DIS_DEBUG_PRTBIN;

164         if (strcasecmp("format", opt2) == 0)
165             dhp->dh_debug |= DIS_DEBUG_PRTFMT;

167         if (strcasecmp("all", opt2) == 0)
168             dhp->dh_debug = DIS_DEBUG_ALL;

170         if (strcasecmp("none", opt2) == 0)
171             dhp->dh_debug = DIS_DEBUG_NONE;

173         opt2 = end;
174     }
175     free(save);
176 #endif /* DIS_STANDALONE */
177     return (dhp);
178 }
    unchanged portion omitted

229 /* ARGSUSED */
230 int
231 dis_instrlen(dis_handle_t *dhp, uint64_t pc)
232 {
233     return (4);
234 }

236 #endif /* !codereview */
237 int

```

```

238 dis_disassemble(dis_handle_t *dhp, uint64_t addr, char *buf, size_t buflen)
239 {
240     const table_t *tp = &initial_table;
241     const inst_t *inp = NULL;

243     uint32_t instr;
244     uint32_t idx = 0;

246     if (dhp->dh_read(dhp->dh_data, addr, &instr, sizeof (instr)) !=
247         sizeof (instr))
248         return (-1);

250     dhp->dh_buf = buf;
251     dhp->dh_buflen = buflen;
252     dhp->dh_addr = addr;

254     buf[0] = '\0';

256     /* this allows sparc code to be tested on x86 */
257     instr = BE_32(instr);

259 #if !defined(DIS_STANDALONE)
260     if ((dhp->dh_debug & DIS_DEBUG_PRTBIN) != 0)
261         do_binary(instr);
262 #endif /* DIS_STANDALONE */

264     /* CONSTCOND */
265     while (1) {
266         idx = dis_get_bits(instr, tp->tbl_field, tp->tbl_len);
267         inp = &tp->tbl_inp[idx];

269         inp = dis_get_overlay(dhp, tp, idx);

271         if ((inp->in_type == INST_NONE) ||
272             ((inp->in_arch & dhp->dh_flags) == 0))
273             goto error;

275         if (inp->in_type == INST_TBL) {
276             tp = inp->in_data.in_tbl;
277             continue;
278         }

280         break;
281     }

283     if (tp->tbl_fmt(dhp, instr, inp, idx) == 0)
284         return (0);

286 error:

288     (void) snprintf(buf, buflen,
289                    ((dhp->dh_flags & DIS_OCTAL) != 0) ? "%011lo" : "0x%08lx",
290                    instr);

292     return (0);
293 }

295 static uint32_t
296 dis_get_bits(uint32_t instr, int offset, int length)
297 {
298     uint32_t mask, val;
299     int i;

301     for (i = 0, mask = 0; i < length; ++i)
302         mask |= (1UL << i);

```

```
304     mask = mask << (offset - length + 1);
306     val = instr & mask;
308     val = val >> (offset - length + 1);
310     return (val);
311 }

313 static const inst_t *
314 dis_get_overlay(dis_handle_t *dhp, const table_t *tp, uint32_t idx)
315 {
316     const inst_t *ip = &tp->tbl_inp[idx];
317     int i;

319     if (tp->tbl_ovp == NULL)
320         return (ip);

322     for (i = 0; tp->tbl_ovp[i].ov_idx != -1; ++i) {
323         if (tp->tbl_ovp[i].ov_idx != idx)
324             continue;

326         if ((tp->tbl_ovp[i].ov_inst.in_arch & dhp->dh_flags) == 0)
327             continue;

329         ip = &tp->tbl_ovp[i].ov_inst;
330         break;
331     }

333     return (ip);
334 }

336 #if !defined(DIS_STANDALONE)
337 static void
338 do_binary(uint32_t instr)
339 {
340     (void) fprintf(stderr, "DISASM: ");
341     prt_binary(instr, 32);
342     (void) fprintf(stderr, "\n");
343 }
344 #endif /* DIS_STANDALONE */
```

```

*****
2818 Sun Feb 24 21:11:30 2013
new/usr/src/lib/libproc/Makefile.com
saveargs: let disasm do the lifting
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves maybe out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
*****
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24 #

26 LIBRARY = libproc.a
27 VERS = .1

29 CMNOBJS = \
30     P32ton.o      \
31     Pcontrol.o   \
32     Pcore.o      \
33     Pexecname.o  \
34     Pfdinfo.o    \
35     Pgccore.o    \
36     Pidle.o      \
37     Pisprocdir.o \
38     Plwpregs.o   \
39     Pservice.o   \
40     Psymtab.o    \
41     Psymtab_machelf32.o \
42     $(CMNOBJS64) \
43     Pscantext.o  \
44     Pstack.o     \
45     Psyscall.o   \
46     Putil.o      \
47     Pzone.o      \
48     pr_door.o    \
49     pr_exit.o    \
50     pr_fcntl.o   \
51     pr_getitimer.o \
52     pr_getrctl.o \
53     pr_getrlimit.o \
54     pr_getsockname.o \
55     pr_ioctl.o   \
56     pr_lseek.o   \
57     pr_memcntl.o \
58     pr_meminfo.o \

```

```

59     pr_mmap.o    \
60     pr_open.o    \
61     pr_pbind.o   \
62     pr_rename.o  \
63     pr_sigaction.o \
64     pr_stat.o    \
65     pr_statvfs.o \
66     pr_tasksys.o \
67     pr_waitid.o  \
68     proc_get_info.o \
69     proc_names.o  \
70     proc_arg.o    \
71     proc_set.o    \
72     proc_stdio.o

74 ISAOBJS = \
75     Pisadep.o

77 amd64_SAVEOBS = \
78     saveargs.o

80 amd64_CPPFLAGS = -I$(SRC)/common/saveargs

82 SAVEOBS = $(MACH64)_SAVEOBS

77 OBJECTS = $(CMNOBJS) $(ISAOBJS) $(SAVEOBS)

79 # include library definitions
80 include ../../Makefile.lib
81 include ../../Makefile.rootfs

83 SRCS = $(CMNOBJS:%.o=../common/%.c) $(ISAOBJS:%.o=%.c)

85 LIBS = $(DYNLIB) $(LINTLIB)
86 LDLIBS += -lrtld_db -lelf -lctf -lc
87 CPPFLAGS += $(MACH64)_CPPFLAGS

89 SRCDIR = ../common
90 $(LINTLIB) := SRCS = $(SRCDIR)/$(LINTSRC)

92 CFLAGS += $(CCVERBOSE)
93 CPPFLAGS += -I$(SRCDIR)

95 CERRWARN += -_gcc=-Wno-uninitialized
96 CERRWARN += -_gcc=-Wno-parentheses
97 CERRWARN += -_gcc=-Wno-type-limits
98 CERRWARN += -_gcc=-Wno-unused-label

100 # All interfaces are interposable, therefore don't allow direct binding to
101 # libproc. Disable libproc from directly binding to itself, but allow libperl
102 # to directly bind to its dependencies (ie. map -Bdirect -> -zdirect). Ensure
103 # lazy loading is established (which is enabled automatically with -Bdirect).
104 BDIRECT =
105 DYNFLAGS += $(BNODIRECT) $(ZDIRECT) $(ZLAZYLOAD)

107 .KEEP_STATE:

109 all: $(LIBS)

111 lint: lintcheck

113 # include library targets
114 include ../../Makefile.targ

116 objs/%.o pics/%.o: %.c
117     $(COMPILE.c) -o $@ $<

```


new/usr/src/lib/libproc/Makefile.com

3

```
118      $(POST_PROCESS_O)

120 objs/%.o pics/%.o: $(SRC)/common/saveargs/%.c
121      $(COMPILE.c) -o $@ $<
122      $(POST_PROCESS_O)
```

new/usr/src/lib/libproc/amd64/Makefile

1

```
*****
1141 Sun Feb 24 21:11:31 2013
new/usr/src/lib/libproc/amd64/Makefile
saveargs: Implement as libsaveargs
saveargs: let disasm do the lifting
*****
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21 #
22 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
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24 #
25 # ident "%Z%M% %I% %E% SMI"
26 #

26 # This is a 64-bit build, and as such needs 64-bit ELF support
27 CMNOBJS64 =      Psymtab_machelf64.o

29 include ../Makefile.com
30 include ../../Makefile.lib.64

32 CPPFLAGS += -D_SYSCALL32
33 LDLIBS += -lsaveargs
34 #endif /* ! codereview */

36 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

```
*****
1618 Sun Feb 24 21:11:31 2013
new/usr/src/lib/libsaveargs/Makefile
saveargs: Implement as libsaveargs
*****
```

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25 #

27 include ../Makefile.lib

29 $(BUILD64)SUBDIRS += $(MACH64)

31 all := TARGET= all
32 clean := TARGET= clean
33 clobber := TARGET= clobber
34 delete := TARGET= delete
35 install := TARGET= install
36 lint := TARGET= lint
37 _msg := TARGET= _msg
38 package := TARGET= package

40 LIBRARY= libsaveargs.a

42 # definitions for install_h target
43 HDRS= saveargs.h
44 ROOTHDRDIR= $(ROOT)/usr/include
45 ROOTHDRS= $(HDRS:%=$(ROOTHDRDIR)/%)
46 CHECKHDRS= $(HDRS:%.h=common/%.check)

48 $(ROOTHDRS) := FILEMODE= 644

50 # install rule for install_h target
51 $(ROOTHDRDIR)/%: common/%
52     $(INS.file)

54 .KEEP_STATE:

56 all clean clobber delete install lint package: $(SUBDIRS)

58 install_h: $(ROOTHDRS)

60 check: $(CHECKHDRS)
```

```
62 $(SUBDIRS): FRC
63     @cd $@; pwd; $(MAKE) $(TARGET)

65 FRC:
66 #endif /* ! codereview */
```

new/usr/src/lib/libsaveargs/Makefile.com

1

3063 Sun Feb 24 21:11:31 2013

new/usr/src/lib/libsaveargs/Makefile.com

saveargs: Implement as libsaveargs

```
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24 #
25 #
26 #
27 # The build process for libsaveargs is slightly different from that used by other
28 # libraries, because libsaveargs must be built in two flavors - as a standalone
29 # for use by kmdb and as a normal library. We use $(CURTYPE) to indicate the
30 # current flavor being built.
31 #
32 #
33 LIBRARY=      libsaveargs.a
34 STANDLIBRARY= libstandssaveargs.so
35 VERS=        .1
36 #
37 # By default, we build the shared library. Construction of the standalone
38 # is specifically requested by architecture-specific Makefiles.
39 TYPES=       library
40 CURTYPE=     library
41 #
42 COMDIR=      $(SRC)/lib/libsaveargs/common
43 #
44 OBJECTS_common_amd64 = saveargs.o
45 SRCS_common_amd64   = $(OBJECTS_common_amd64:%.o=./amd64/%.c)
46 #
47 OBJECTS=     $(OBJECTS_common_$(MACH)) $(OBJECTS_common_$(MACH64)) $(OBJECTS_common_
48 #
49 include $(SRC)/lib/Makefile.lib
50 #
51 SRCS=       $(SRCS_common_$(MACH)) $(SRCS_common_$(MACH64)) $(SRCS_common_common)
52 #
53 #
54 # Used to verify that the standalone doesn't have any unexpected external
55 # dependencies.
56 #
57 LINKTEST_OBJ = objs/linktest_stand.o
58 #
59 CLOBBERFILES_standalone = $(LINKTEST_OBJ)
60 CLOBBERFILES += $(CLOBBERFILES_$(CURTYPE))
```

new/usr/src/lib/libsaveargs/Makefile.com

2

```
62 LIBS_standalone = $(STANDLIBRARY)
63 LIBS_library = $(DYNLIB) $(LINTLIB)
64 LIBS = $(LIBS_$(CURTYPE))
65 #
66 MAPFILES =      $(COMDIR)/mapfile-vers
67 #
68 LDLIBS +=       -lc -ldisasm
69 #
70 LDFLAGS_standalone = $(ZNOVERSION) $(BREDUCE) -dy -r
71 LDFLAGS = $(LDFLAGS_$(CURTYPE))
72 #
73 ASFLAGS_standalone = -DDIS_STANDALONE
74 ASFLAGS_library =
75 ASFLAGS += -P $(ASFLAGS_$(CURTYPE)) -D_ASM
76 #
77 $(LINTLIB) := SRCS = $(COMDIR)/$(LINTSRC)
78 #
79 # We want the thread-specific errno in the library, but we don't want it in
80 # the standalone. $(DTS_ERRNO) is designed to add -D_TS_ERRNO to $(CPPFLAGS),
81 # in order to enable this feature. Conveniently, -D_REENTRANT does the same
82 # thing. As such, we null out $(DTS_ERRNO) to ensure that the standalone
83 # doesn't get it.
84 DTS_ERRNO=
85 #
86 CPPFLAGS_standalone = -DDIS_STANDALONE
87 CPPFLAGS_library = -D_REENTRANT
88 CPPFLAGS += -I$(COMDIR) $(CPPFLAGS_$(CURTYPE))
89 #
90 CFLAGS_standalone = $(STAND_FLAGS_32)
91 CFLAGS_common =
92 CFLAGS += $(CFLAGS_$(CURTYPE)) $(CFLAGS_common)
93 #
94 CFLAGS64_standalone = $(STAND_FLAGS_64)
95 CFLAGS64 += $(CCVERBOSE) $(CFLAGS64_$(CURTYPE)) $(CFLAGS64_common)
96 #
97 DYNFLAGS +=     $(ZINTERPOSE)
98 #
99 .KEEP_STATE:
100 #endif /* ! codereview */
```

new/usr/src/lib/libsaveargs/Makefile.targ

1

2209 Sun Feb 24 21:11:32 2013

new/usr/src/lib/libsaveargs/Makefile.targ

saveargs: Implement as libsaveargs

```
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 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #
26 #
27 # We build each flavor in a separate make invocation to improve clarity(!) in
28 # Makefile.com. The subordinate makes have $(CURTYPE) set to indicate the
29 # flavor they're supposed to build. This causes the correct set of source
30 # files and compiler and linker flags to be selected.
31 #
32 #
33 install: $(TYPES:%=install.%)
34 #
35 all: $(TYPES:%=all.%)
36 #
37 $(TYPES:%=all.%):
38     @CURTYPE=$(@:all.%=) $(MAKE) $@.targ
39 #
40 $(TYPES:%=install.%):
41     @CURTYPE=$(@:install.%=) $(MAKE) $@.targ
42 #
43 install.library.targ: all.library $(INSTALL_DEPS_library)
44 install.standalone.targ: all.standalone $(INSTALL_DEPS_standalone)
45 #
46 all.library.targ: $(LIBS)
47 all.standalone.targ: $(STANDLIBRARY)
48 #
49 lint: $(TYPES:%=lint.%)
50 #
51 $(TYPES:%=lint.%):
52     @CURTYPE=$(@:lint.%=) $(MAKE) lintcheck
53 #
54 $(STANDLIBRARY): $(OBJS) $(LINKTEST_OBJ)
55     $(LD) $(BREDUCE) $(ZDEFS) $(LDFLAGS) -o $@.linktest $(OBJS) $(LINKTEST_
56     rm $@.linktest
57     $(LD) $(LDFLAGS) -o $@ $(OBJS)
58 #
59 clobber: $(TYPES:%=clobber.%)
60 #
61 $(TYPES:%=clobber.%):
```

new/usr/src/lib/libsaveargs/Makefile.targ

2

```
62     @CURTYPE=$(@:clobber.%=) $(MAKE) clobber.targ
63 #
64 clobber.targ: clean
65     -$(RM) $(CLOBBERTARGETFILES)
66 #
67 # include library targets
68 include $(SRC)/lib/Makefile.targ
69 #
70 $(PICS): pics
71 $(OBJS): objs
72 #
73 objs/%.o pics/%.o: $(COMDIR)/%.c
74     $(COMPILE.c) -o $@ $<
75     $(POST_PROCESS_O)
76 #
77 # install rule for lint library target
78 $(ROOTLINTDIR)/%: $(COMDIR)/%
79     $(INS.file)
80 #
81 #endif /* ! codereview */
```

new/usr/src/lib/libsaveargs/amd64/Makefile

1

```
*****
1114 Sun Feb 24 21:11:32 2013
new/usr/src/lib/libsaveargs/amd64/Makefile
saveargs: Implement as libsaveargs
*****
```

```
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 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 include ../Makefile.com
27 include ../../Makefile.lib.64

29 TYPES=library standalone

31 INSTALL_DEPS_library = $(ROOTLINKS64) $(ROOTLINT64) $(ROOTLIBS64)
32 INSTALL_DEPS_standalone = $(ROOTLIBS64)

34 include ../Makefile.targ
35 #endif /* ! codereview */
```

```

*****
8810 Sun Feb 24 21:11:32 2013
new/usr/src/lib/libsaveargs/amd64/saveargs.c
saveargs: Implement as libsaveargs
*****
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 * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */

27 /*
28 * The Sun Studio and GCC (patched for opensolaris/illumos) compilers
29 * implement a argument saving scheme on amd64 via the -Wu,save-args or
30 * options. When the option is specified, INTEGER type function arguments
31 * passed via registers will be saved on the stack immediately after %rbp, and
32 * will not be modified through out the life of the routine.
33 *
34 *
35 *          %rbp   -->   +-----+
36 *                    | %rbp  |
37 *          -0x8(%rbp) | %rdi  |
38 *                    +-----+
39 *          -0x10(%rbp) | %rsi  |
40 *                    +-----+
41 *          -0x18(%rbp) | %rdx  |
42 *                    +-----+
43 *          -0x20(%rbp) | %rcx  |
44 *                    +-----+
45 *          -0x28(%rbp) | %r8   |
46 *                    +-----+
47 *          -0x30(%rbp) | %r9   |
48 *                    +-----+
49 *
50 *
51 * For example, for the following function,
52 *
53 * void
54 * foo(int a1, int a2, int a3, int a4, int a5, int a6, int a7)
55 * {
56 * ...
57 * }
58 *
59 * Disassembled code will look something like the following:
60 *
61 *     pushq   %rbp

```

```

62 *     movq   %rsp, %rbp
63 *     subq   $imm8, %rsp          **
64 *     movq   %rdi, -0x8(%rbp)
65 *     movq   %rsi, -0x10(%rbp)
66 *     movq   %rdx, -0x18(%rbp)
67 *     movq   %rcx, -0x20(%rbp)
68 *     movq   %r8, -0x28(%rbp)
69 *     movq   %r9, -0x30(%rbp)
70 *     ...
71 * or
72 *     pushq  %rbp
73 *     movq   %rsp, %rbp
74 *     subq   $imm8, %rsp          **
75 *     movq   %r9, -0x30(%rbp)
76 *     movq   %r8, -0x28(%rbp)
77 *     movq   %rcx, -0x20(%rbp)
78 *     movq   %rdx, -0x18(%rbp)
79 *     movq   %rsi, -0x10(%rbp)
80 *     movq   %rdi, -0x8(%rbp)
81 *     ...
82 * or
83 *     pushq  %rbp
84 *     movq   %rsp, %rbp
85 *     pushq  %rdi
86 *     pushq  %rsi
87 *     pushq  %rdx
88 *     pushq  %rcx
89 *     pushq  %r8
90 *     pushq  %r9
91 *
92 * **: The space being reserved is in addition to what the current
93 *     function prolog already reserves.
94 *
95 * We loop through the first SAVEARGS_INSN_SEQ_LEN bytes of the function
96 * looking for each argument saving instruction we would expect to see.
96 * looking for each argument saving instruction we would expect to see. We
97 * loop byte-by-byte, rather than doing anything smart about insn lengths,
98 * only deviating from this when we know we have our insn, and can skip the
99 * rest of it.
97 *
98 * If there are odd number of arguments to a function, additional space is
99 * reserved on the stack to maintain 16-byte alignment. For example,
100 *
101 *     argc == 0: no argument saving.
102 *     argc == 3: save 3, but space for 4 is reserved
103 *     argc == 7: save 6.
104 */

106 #include <sys/sysmacros.h>
107 #include <sys/types.h>
108 #include <libdisasm.h>
109 #include <string.h>

111 #endif /* ! codereview */
112 #include <saveargs.h>

114 /*
115 * Size of the instruction sequence arrays. It should correspond to
116 * the maximum number of arguments passed via registers.
117 */
118 #define INSTR_ARRAY_SIZE      6

120 #define INSTR1(ins, off) (ins[(off)])
121 #define INSTR2(ins, off) (ins[(off)] + (ins[(off) + 1] << 8))
122 #define INSTR3(ins, off) \
123     (ins[(off)] + (ins[(off) + 1] << 8) + (ins[(off) + 2] << 16))

```



```

250     }
252     return (B_FALSE);
130     return (0);
253 }

255 int
256 saveargs_has_args(uint8_t *ins, size_t size, uint_t argc, int start_index)
257 {
258     int            i, j;
259     uint32_t       n;
260     uint8_t        found = 0;
261     size_t         sz = 0;
262     dis_handle_t   *dhp = NULL;
263     int            ret = SAVEARGS_NO_ARGS;
264 #endif /* ! codereview */

266     argc = MIN((start_index + argc), INSTR_ARRAY_SIZE);

268     if ((dhp = dis_handle_create(DIS_X86_SIZE64, NULL, do_lookup,
269     do_read)) == NULL)
270         return (SAVEARGS_NO_ARGS);

272     if (!has_saved_fp(dhp, ins, size)) {
273         dis_handle_destroy(dhp);
138     if (!has_saved_fp(ins, size))
274         return (SAVEARGS_NO_ARGS);
275     }
276 #endif /* ! codereview */

278     /*
279     * For each possible style of argument saving, walk the insn stream as
280     * we've been given it, and set bit N in 'found' if we find the
281     * instruction saving the Nth argument.
282     * Compare against Sun Studio implementation
283     */
142     for (i = 4, j = 0; i <= size - 4; i++) {
143         n = INSTR4(ins, i);

145         if (n == save_instr[j]) {
146             i += 3;
147             if (++j >= argc)
148                 return (start_index ? SAVEARGS_STRUCT_ARGS :
149                 SAVEARGS_TRAD_ARGS);
150         }
151     }

284     /*
285     * Compare against regular implementation
154     * Compare against GCC implementation
286     */
287     found = 0;
288     for (i = 0; i < size; i += sz) {
289         sz = instr_size(dhp, ins, i, size);

291         if (sz == -1)
292             break;
293         else if (sz != 4)
294             continue;

156         for (i = 4, j = argc - 1; i <= size - 4; i++) {
296             n = INSTR4(ins, i);

298             for (j = 0; j < argc; j++) {
299 #endif /* ! codereview */
300                 if (n == save_instr[j]) {

```

```

301         found |= (1 << j);

303         if (found == ((1 << argc) - 1)) {
304             ret = start_index ?
305                 SAVEARGS_STRUCT_ARGS :
306                 SAVEARGS_TRAD_ARGS;
307             goto done;
308         }

310         break;
311     }
159     i += 3;
160     if (--j < start_index)
161         return (SAVEARGS_TRAD_ARGS);
312     }
313 }

315     /*
316     * Compare against GCC push-based implementation
317     */
318     found = 0;
319     for (i = 0; i < size; i += sz) {
320         if ((sz = instr_size(dhp, ins, i, size)) == -1)
321             break;

323         for (j = start_index; j < argc; j++) {
324             if (sz == 2) /* Two byte */
325                 n = INSTR2(ins, i);
326             else if (sz == 1)
327                 n = INSTR1(ins, i);
328             else
329                 continue;
168         for (i = 4, j = start_index; i <= size - 2; i += 1) {
169             n = (i >= (8 - start_index)) ? INSTR2(ins, i) : INSTR1(ins, i);

331             if (n == save_instr_push[j]) {
332                 found |= (1 << (j - start_index));

334                 if (found ==
335                     ((1 << (argc - start_index)) - 1)) {
336                     ret = SAVEARGS_TRAD_ARGS;
337                     goto done;
338                 }

340                 break;
341             }
172             if (i >= (8 - start_index))
173                 i += 1;
174             if (++j >= argc)
175                 return (SAVEARGS_TRAD_ARGS);
342         }
343     }

345     /*
346     * Look for a GCC-style returned structure.
347     */
348     found = 0;
179     /* Look for a GCC-style returned structure */
349     if (start_index != 0) {
350         for (i = 0; i < size; i += sz) {
351             sz = instr_size(dhp, ins, i, size);

353             if (sz == -1)
354                 break;
355             else if (sz != 4)
356                 continue;

```

```
181         for (i = 4, j = argc - 2; i <= size - 4; i++) {
358             n = INSTR4(ins, i);

360             /* argc is inclusive of start_index, allow for that */
361             for (j = 0; j < (argc - start_index); j++) {
362 #endif /* ! codereview */
363                 if (n == save_instr_sr[j]) {
364                     found |= (1 << j);

366                     if (found ==
367                         ((1 << (argc - start_index)) - 1)) {
368                         ret = SAVEARGS_TRAD_ARGS;
369                         goto done;
370                     }

372                     break;
373                 }
184                 i += 3;
185                 if (--j >= (argc - 1))
186                     return (SAVEARGS_TRAD_ARGS);
374             }
375         }
376     }

378 done:
379     dis_handle_destroy(dhp);
380     return (ret);
191     return (SAVEARGS_NO_ARGS);
381 }

unchanged_portion_omitted
```

new/usr/src/lib/libsaveargs/common/linktest_stand.c

1

559 Sun Feb 24 21:11:32 2013

new/usr/src/lib/libsaveargs/common/linktest_stand.c

saveargs: Implement as libsaveargs

```
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 void memcpy(void) {}
13 void dis_set_data(void) {}
14 void dis_instrlen(void) {}
15 void dis_handle_create(void) {}
16 void dis_handle_destroy(void) {}
17
18 #endif /* ! codereview */
```

new/usr/src/lib/libsaveargs/common/l1ib-lsaveargs

1

471 Sun Feb 24 21:11:32 2013

new/usr/src/lib/libsaveargs/common/l1ib-lsaveargs

saveargs: Implement as libsaveargs

```
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 /* LINTLIBRARY */
13 /* PROTOLIB1 */

15 #include <saveargs.h>
16 #endif /* ! codereview */
```

new/usr/src/lib/libsaveargs/common/mapfile-vers

1

909 Sun Feb 24 21:11:33 2013

new/usr/src/lib/libsaveargs/common/mapfile-vers

saveargs: Implement as libsaveargs

```
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 2012 <contributor>. All rights reserved.
14 #
15 #
16 #
17 # MAPFILE HEADER START
18 #
19 # WARNING: STOP NOW. DO NOT MODIFY THIS FILE.
20 # Object versioning must comply with the rules detailed in
21 #
22 #     usr/src/lib/README.mapfiles
23 #
24 # You should not be making modifications here until you've read the most current
25 # copy of that file. If you need help, contact a gatekeeper for guidance.
26 #
27 # MAPFILE HEADER END
28 #
29 #
30 $mapfile_version 2
31 #
32 SYMBOL_VERSION ILLUMOSprivate {
33     global:
34         saveargs_has_args;
35     local:
36         *;
37 };
38 #endif /* ! codereview */
```

new/usr/src/lib/libsaveargs/tests/README

1

347 Sun Feb 24 21:11:33 2013

new/usr/src/lib/libsaveargs/tests/README

saveargs: Implement as libsaveargs

1 testmatch:

3 A stub program that tests the saveargs matcher against a variety of
4 function prologues (assembled from data.s)

6 functional:

8 Actually test the full chunk of the (libproc) side of the code, running
9 pstack on the range of test apps.

11 dump:

13 Display each function in a given object we believe to have saved
14 arguments.

15 #endif /* !codereview */

new/usr/src/lib/libsaveargs/tests/dump/Makefile

1

764 Sun Feb 24 21:11:33 2013

new/usr/src/lib/libsaveargs/tests/dump/Makefile

saveargs: Implement as libsaveargs

```
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 2012, Richard Lowe.
14 #
15 #
16 include $(SRC)/Makefile.master
17 include $(SRC)/Makefile.master.64
18 #
19 .KEEP_STATE:
20 #
21 OBJECTS = dump.o
22 PROG = dump
23 #
24 CFLAGS += -m64
25 #
26 LDFLAGS += -lctf -lelf -lsaveargs
27 #
28 C99MODE = $(C99_ENABLE)
29 #
30 $(PROG): $(OBJECTS)
31     $(LINK.c) -o $@ $(OBJECTS) $(LDLIBS64)
32 clean:
33     $(RM) $(OBJECTS) $(PROG)
34 #
35 clobber: clean
36 #
37 all: $(PROG)
38 #
39 install: all
40 #endif /* !codereview */
```

```

*****
3643 Sun Feb 24 21:11:34 2013
new/usr/src/lib/libsaveargs/tests/dump/dump.c
saveargs: Implement as libsaveargs
*****

2 /*
3  * This file and its contents are supplied under the terms of the
4  * Common Development and Distribution License ("CDDL"), version 1.0.
5  * You may only use this file in accordance with the terms of version
6  * 1.0 of the CDDL.
7  *
8  * A full copy of the text of the CDDL should have accompanied this
9  * source. A copy of the CDDL is also available via the Internet at
10 * http://www.illumos.org/license/CDDL.
11 */

13 #include <err.h>
14 #include <fcntl.h>
15 #include <gelf.h>
16 #include <libctf.h>
17 #include <saveargs.h>
18 #include <stdarg.h>
19 #include <stdio.h>
20 #include <stdlib.h>
21 #include <strings.h>
22 #include <unistd.h>

24 extern const char *__progname;

26 typedef struct symtab_sym {
27     GElf_Sym ss_sym;
28     char *ss_name;
29     ctf_funcinfo_t ss_finfo;
30     uint8_t *ss_data;
31     size_t ss_size;
32 } symtab_sym_t;

34 static void
35 walk_symtab(Elf *elf, char *fname, ctf_file_t *fp,
36             void (*callback)(ctf_file_t *, symtab_sym_t *))
37 {
38     Elf_Scn *stab = NULL;
39     Elf_Scn *text = NULL;
40     Elf_Data *stabdata = NULL;
41     Elf_Data *textdata = NULL;
42     GElf_Ehdr ehdr;
43     GElf_Shdr stabshdr;
44     GElf_Shdr textshdr;
45     int foundtext = 0, foundstab = 0;
46     symtab_sym_t ss;

48     if ((gelf_getehdr(elf, &ehdr)) == NULL)
49         errx(1, "could not read ELF header from %s\n",
50             fname);

52     while ((stab = elf_nextscn(elf, stab)) != NULL) {
53         (void) gelf_getshdr(stab, &stabshdr);

55         if (stabshdr.sh_type == SHT_SYMTAB) {
56             foundstab = 1;
57             break;
58         }
59     }

61     while ((text = elf_nextscn(elf, text)) != NULL) {

```

```

62         (void) gelf_getshdr(text, &textshdr);

64         if (strcmp(".text", elf_strptr(elf,
65             ehdr.e_shstrndx, (size_t)textshdr.sh_name)) == 0) {
66             foundtext = 1;
67             break;
68         }
69     }

71     if (!foundstab || !foundtext)
72         return;

74     stabdata = elf_getdata(stab, NULL);
75     textdata = elf_rawdata(text, NULL);
76     for (unsigned symdx = 0;
77          symdx < (stabshdr.sh_size / stabshdr.sh_entsize);
78          symdx++) {
79         (void) gelf_getsym(stabdata, symdx, &ss.ss_sym);

81         if ((GELF_ST_TYPE(ss.ss_sym.st_info) != STT_FUNC) ||
82             (ss.ss_sym.st_shndx == SHN_UNDEF))
83             continue;

85         ss.ss_name = elf_strptr(elf, stabshdr.sh_link,
86             ss.ss_sym.st_name);
87         ss.ss_data = ((uint8_t *) (textdata->d_buf)) +
88             (ss.ss_sym.st_value - textshdr.sh_addr);

90         if (ctf_func_info(fp, symdx, &ss.ss_finfo) == CTF_ERR) {
91             fprintf(stderr, "failed to get funcinfo for: %s\n",
92                 ss.ss_name);
93             continue;
94         }

96         (void) callback(fp, &ss);
97     }
98 }

100 void
101 check_sym(ctf_file_t *ctfp, symtab_sym_t *ss)
102 {
103     int rettype = ctf_type_kind(ctfp, ss->ss_finfo.ctc_return);
104     int start_index = 0;

106     if (ss->ss_finfo.ctc_argc == 0) /* No arguments, no point */
107         return;

109     if (((rettype == CTF_K_STRUCT) || (rettype == CTF_K_UNION)) &&
110         ctf_type_size(ctfp, ss->ss_finfo.ctc_return) > 16)
111         start_index = 1;

113     if (saveargs_has_args(ss->ss_data, ss->ss_sym.st_size,
114         ss->ss_finfo.ctc_argc, start_index) != SAVEARGS_NO_ARGS)
115         printf("%s has %d saved args\n", ss->ss_name,
116             ss->ss_finfo.ctc_argc);
117 }

119 int
120 main(int argc, char **argv)
121 {
122     Elf *elf;
123     ctf_file_t *ctfp;
124     int errp, fd;

126     if (ctf_version(CTF_VERSION) == -1)
127         errx(1, "mismatched libctf versions\n");

```



```
129     if (elf_version(EV_CURRENT) == EV_NONE)
130         errx(1, "mismatched libelf versions\n");
132     if (argc != 2)
133         errx(2, "usage: %s <file>\n", __progname);
135     if ((ctfp = ctf_open(argv[1], &errp)) == NULL)
136         errx(1, "failed to ctf_open file: %s: %s\n", argv[1],
137             ctf_errmsg(errp));
139     if ((fd = open(argv[1], O_RDONLY)) == -1)
140         errx(1, "could not open %s\n", argv[1]);
142     if ((elf = elf_begin(fd, ELF_C_READ, NULL)) == NULL)
143         errx(1, "could not interpret ELF from %s\n",
144             argv[1]);
146     walk_symtab(elf, argv[1], ctfp, check_sym);
148     (void) elf_end(elf);
149     (void) close(fd);
151     return (0);
152 }
153 #endif /* ! codereview */
```

new/usr/src/lib/libsaveargs/tests/testmatch/Makefile

1

767 Sun Feb 24 21:11:36 2013

new/usr/src/lib/libsaveargs/tests/testmatch/Makefile

saveargs: Implement as libsaveargs

```
2 #endif /* ! codereview */
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 #
13 #
14 #
15 # Copyright 2012, Richard Lowe.
16 #
17 #
18 include $(SRC)/Makefile.master
19 include $(SRC)/Makefile.master.64
20 #
21 .KEEP_STATE:
22 #
23 OBJECTS = testmatch.o data.o
24 PROG = testmatch
25 #
26 LDLIBS64 += -lsaveargs
27 #
28 CPPFLAGS += -I$(SRC)/common/saveargs
29 ASFLAGS += -P
30 AS_CPPFLAGS += -D_ASM
31 #
32 %.o: $(SRC)/common/saveargs/%.c
33     $(COMPILE.c) -o $@ $<
34 #
35 $(PROG): $(OBJECTS)
36     $(LINK.c) -o $@ $(OBJECTS) $(LDLIBS64)
37     $(LINK.c) -o $@ $(OBJECTS) -lc
38 #
39 clean:
40     $(RM) $(OBJECTS) $(PROG)
41 #
42 clobber: clean
43 #
44 all: $(PROG)
45 #
46 install: all
```

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new/usr/src/lib/libsaveargs/tests/testmatch/data.s

saveargs: Implement as libsaveargs

_____unchanged_portion_omitted_____

```

67 FUNC(gcc_mov_noorder)
68 pushq   %rbp
69 movq    %rsp,%rbp
70 movq    %rcx,-0x20(%rbp)
71 movq    %rbx,-0x28(%rbp)
72 movq    %rdi,-0x8(%rbp)
73 movq    %rdx,-0x18(%rbp)
74 movq    %rsi,-0x10(%rbp)
75 subq    $0x50,%rsp
76 SET_SIZE(gcc_mov_noorder, gcc_mov_noorder_end)
77
78 #endif /* ! codereview */
79 FUNC(gcc_mov_big_struct_ret)
80 pushq   %rbp
81 movq    %rsp,%rbp
82 movq    %rbx,-0x28(%rbp)
83 movq    %r8,-0x20(%rbp)
84 movq    %rcx,-0x18(%rbp)
85 movq    %rdx,-0x10(%rbp)
86 movq    %rsi,-0x8(%rbp)
87 subq    $0x50,%rsp
88 SET_SIZE(gcc_mov_big_struct_ret, gcc_mov_big_struct_ret_end)

90 FUNC(gcc_mov_struct_noorder)
91 pushq   %rbp
92 movq    %rsp,%rbp
93 movq    %rcx,-0x18(%rbp)
94 movq    %r8,-0x20(%rbp)
95 movq    %rsi,-0x8(%rbp)
96 movq    %rdx,-0x10(%rbp)
97 movq    %rbx,-0x28(%rbp)
98 subq    $0x50,%rsp
99 SET_SIZE(gcc_mov_struct_noorder, gcc_mov_struct_noorder_end)

101 #endif /* ! codereview */
102 FUNC(gcc_mov_big_struct_ret_and_spill)
103 pushq   %rbp
104 movq    %rsp,%rbp
105 movq    %rbx,-0x38(%rbp)
106 movq    %r9,-0x28(%rbp)
107 movq    %r8,-0x20(%rbp)
108 movq    %rcx,-0x18(%rbp)
109 movq    %rdx,-0x10(%rbp)
110 movq    %rsi,-0x8(%rbp)
111 subq    $0x90,%rsp
112 SET_SIZE(gcc_mov_big_struct_ret_and_spill, gcc_mov_big_struct_ret_and_spill_end)

114 FUNC(gcc_mov_small_struct_ret)
115 pushq   %rbp
116 movq    %rsp,%rbp
117 movq    %rbx,-0x28(%rbp)
118 movq    %rcx,-0x20(%rbp)
119 movq    %rdx,-0x18(%rbp)
120 movq    %rsi,-0x10(%rbp)
121 movq    %rdi,-0x8(%rbp)
122 subq    $0x50,%rsp
123 SET_SIZE(gcc_mov_small_struct_ret, gcc_mov_small_struct_ret_end)

125 FUNC(gcc_mov_small_struct_ret_and_spill)

```

```

126 pushq   %rbp
127 movq    %rsp,%rbp
128 movq    %rbx,-0x38(%rbp)
129 movq    %r9,-0x30(%rbp)
130 movq    %r8,-0x28(%rbp)
131 movq    %rcx,-0x20(%rbp)
132 movq    %rdx,-0x18(%rbp)
133 movq    %rsi,-0x10(%rbp)
134 movq    %rdi,-0x8(%rbp)
135 subq    $0x90,%rsp
136 SET_SIZE(gcc_mov_small_struct_ret_and_spill, gcc_mov_small_struct_ret_and_spill_end)

138 FUNC(gcc_mov_stack_spill)
139 pushq   %rbp
140 movq    %rsp,%rbp
141 movq    %rbx,-0x38(%rbp)
142 movq    %r9,-0x30(%rbp)
143 movq    %r8,-0x28(%rbp)
144 movq    %rcx,-0x20(%rbp)
145 movq    %rdx,-0x18(%rbp)
146 movq    %rsi,-0x10(%rbp)
147 movq    %rdi,-0x8(%rbp)
148 subq    $0x90,%rsp
149 SET_SIZE(gcc_mov_stack_spill, gcc_mov_stack_spill_end)

151 FUNC(gcc_push_align)
152 pushq   %rbp
153 movq    %rsp,%rbp
154 pushq   %rdi
155 pushq   %rsi
156 pushq   %rdx
157 pushq   %rcx
158 pushq   %r8
159 subq    $0x8,%rsp
160 subq    $0x30,%rsp
161 SET_SIZE(gcc_push_align, gcc_push_align_end)

163 FUNC(gcc_push_basic)
164 pushq   %rbp
165 movq    %rsp,%rbp
166 pushq   %rdi
167 pushq   %rsi
168 pushq   %rdx
169 pushq   %rcx
170 subq    $0x20,%rsp
171 SET_SIZE(gcc_push_basic, gcc_push_basic_end)

173 FUNC(gcc_push_noorder)
174 pushq   %rbp
175 movq    %rsp,%rbp
176 pushq   %rsi
177 pushq   %rdi
178 pushq   %rcx
179 pushq   %rdx
180 subq    $0x20,%rsp
181 SET_SIZE(gcc_push_noorder, gcc_push_noorder_end)

183 #endif /* ! codereview */
184 FUNC(gcc_push_big_struct_ret)
185 pushq   %rbp
186 movq    %rsp,%rbp
187 pushq   %rsi
188 pushq   %rdx
189 pushq   %rcx
190 pushq   %r8
191 subq    $0x30,%rsp

```

```

192 SET_SIZE(gcc_push_big_struct_ret, gcc_push_big_struct_ret_end)

194 FUNC(gcc_push_struct_noorder)
195 pushq   %rbp
196 movq   %rsp,%rbp
197 pushq  %rdx
198 pushq  %rsi
199 pushq  %r8
200 pushq  %rcx
201 subq   $0x30,%rsp
202 SET_SIZE(gcc_push_struct_noorder, gcc_push_struct_noorder_end)
203
204 #endif /* ! codereview */
205 FUNC(gcc_push_big_struct_ret_and_spill)
206 pushq   %rbp
207 movq   %rsp,%rbp
208 pushq  %rsi
209 pushq  %rdx
210 pushq  %rcx
211 pushq  %r8
212 pushq  %r9
213 subq   $0x8,%rsp
214 subq   $0x50,%rsp
215 SET_SIZE(gcc_push_big_struct_ret_and_spill, gcc_push_big_struct_ret_and_spill_en

217 FUNC(gcc_push_small_struct_ret)
218 pushq   %rbp
219 movq   %rsp,%rbp
220 pushq  %rdi
221 pushq  %rsi
222 pushq  %rdx
223 pushq  %rcx
224 subq   $0x20,%rsp
225 SET_SIZE(gcc_push_small_struct_ret, gcc_push_small_struct_ret_end)

227 FUNC(gcc_push_small_struct_ret_and_spill)
228 pushq   %rbp
229 movq   %rsp,%rbp
230 pushq  %rdi
231 pushq  %rsi
232 pushq  %rdx
233 pushq  %rcx
234 pushq  %r8
235 pushq  %r9
236 subq   $0x50,%rsp
237 SET_SIZE(gcc_push_small_struct_ret_and_spill, gcc_push_small_struct_ret_and_spil

239 FUNC(gcc_push_stack_spill)
240 pushq   %rbp
241 movq   %rsp,%rbp
242 pushq  %rdi
243 pushq  %rsi
244 pushq  %rdx
245 pushq  %rcx
246 pushq  %r8
247 pushq  %r9
248 subq   $0x50,%rsp
249 SET_SIZE(gcc_push_stack_spill, gcc_push_stack_spill_end)

251 FUNC(ss_mov_align)
252 pushq   %rbp
253 movq   %rsp,%rbp
254 subq   $0x30,%rsp
255 movq   %rdi,-0x8(%rbp)
256 movq   %rsi,-0x10(%rbp)
257 movq   %rdx,-0x18(%rbp)

```

```

258 movq   %rcx,-0x20(%rbp)
259 movq   %r8,-0x28(%rbp)
260 SET_SIZE(ss_mov_align, ss_mov_align_end)

262 FUNC(ss_mov_basic)
263 pushq   %rbp
264 movq   %rsp,%rbp
265 subq   $0x20,%rsp
266 movq   %rdi,-0x8(%rbp)
267 movq   %rsi,-0x10(%rbp)
268 movq   %rdx,-0x18(%rbp)
269 movq   %rcx,-0x20(%rbp)
270 SET_SIZE(ss_mov_basic, ss_mov_basic_end)

272 FUNC(ss_mov_big_struct_ret)
273 pushq   %rbp
274 movq   %rsp,%rbp
275 subq   $0x30,%rsp
276 movq   %rdi,-0x8(%rbp)
277 movq   %rsi,-0x10(%rbp)
278 movq   %rdx,-0x18(%rbp)
279 movq   %rcx,-0x20(%rbp)
280 movq   %r8,-0x28(%rbp)
281 SET_SIZE(ss_mov_big_struct_ret, ss_mov_big_struct_ret_end)

283 FUNC(ss_mov_big_struct_ret_and_spill)
284 pushq   %rbp
285 movq   %rsp,%rbp
286 subq   $0x50,%rsp
287 movq   %rdi,-0x8(%rbp)
288 movq   %rsi,-0x10(%rbp)
289 movq   %rdx,-0x18(%rbp)
290 movq   %rcx,-0x20(%rbp)
291 movq   %r8,-0x28(%rbp)
292 movq   %r9,-0x30(%rbp)
293 SET_SIZE(ss_mov_big_struct_ret_and_spill, ss_mov_big_struct_ret_and_spill_end)

295 FUNC(ss_mov_small_struct_ret)
296 pushq   %rbp
297 movq   %rsp,%rbp
298 subq   $0x20,%rsp
299 movq   %rdi,-0x8(%rbp)
300 movq   %rsi,-0x10(%rbp)
301 movq   %rdx,-0x18(%rbp)
302 movq   %rcx,-0x20(%rbp)
303 SET_SIZE(ss_mov_small_struct_ret, ss_mov_small_struct_ret_end)

305 FUNC(ss_mov_small_struct_ret_and_spill)
306 pushq   %rbp
307 movq   %rsp,%rbp
308 subq   $0x50,%rsp
309 movq   %rdi,-0x8(%rbp)
310 movq   %rsi,-0x10(%rbp)
311 movq   %rdx,-0x18(%rbp)
312 movq   %rcx,-0x20(%rbp)
313 movq   %r8,-0x28(%rbp)
314 movq   %r9,-0x30(%rbp)
315 SET_SIZE(ss_mov_small_struct_ret_and_spill, ss_mov_small_struct_ret_and_spill_en

317 FUNC(ss_mov_stack_spill)
318 pushq   %rbp
319 movq   %rsp,%rbp
320 subq   $0x50,%rsp
321 movq   %rdi,-0x8(%rbp)
322 movq   %rsi,-0x10(%rbp)
323 movq   %rdx,-0x18(%rbp)

```

```

324 movq   %rcx,-0x20(%rbp)
325 movq   %r8,-0x28(%rbp)
326 movq   %r9,-0x30(%rbp)
327 SET_SIZE(ss_mov_stack_spill, ss_mov_stack_spill_end)

329 /* DTrace instrumentation */
330 FUNC(dtrace_instrumented)
331 int     $0x3
332 movq   %rsp,%rbp
333 movq   %rbx,-0x28(%rbp)
334 movq   %rcx,-0x20(%rbp)
335 movq   %rdx,-0x18(%rbp)
336 movq   %rsi,-0x10(%rbp)
337 movq   %rdi,-0x8(%rbp)
338 subq   $0x50,%rsp
339 SET_SIZE(dtrace_instrumented, dtrace_instrumented_end)

341 /*
342  * System functions with special characteristics, be they non-initial FP save,
343  * gaps between FP save and argument saving, or gaps between saved arguments.
344  */
345 FUNC(kmem_alloc)
346 leaq   -0x1(%rdi),%rax
347 pushq  %rbp
348 movq   %rax,%rdx
349 movq   %rsp,%rbp
350 subq   $0x30,%rsp
351 shrq   $0x3,%rdx
352 movq   %r12,-0x28(%rbp)
353 movq   %rbx,-0x30(%rbp)
354 cmpq   $0x1ff,%rdx
355 movq   %r13,-0x20(%rbp)
356 movq   %r14,-0x18(%rbp)
357 movq   %rsi,-0x10(%rbp)
358 movq   %rdi,-0x8(%rbp)
359 movq   %rdi,%r12
360 SET_SIZE(kmem_alloc, kmem_alloc_end)

362 FUNC(uts_kill)
363 pushq  %rbp
364 movq   %rsp,%rbp
365 subq   $0x50,%rsp
366 movq   %rbx,-0x28(%rbp)
367 leaq   -0x50(%rbp),%rbx
368 movq   %r12,-0x20(%rbp)
369 movq   %r13,-0x18(%rbp)
370 movq   %rsi,-0x10(%rbp)
371 movl   %edi,%r12d
372 movq   %rdi,-0x8(%rbp)
373 SET_SIZE(uts_kill, uts_kill_end)

375 FUNC(avl394_ic_bitreverse)
376 movq   %rdi,%rdx
377 movq   $0x5555555555555555,%rax
378 movq   $0x3333333333333333,%rcx
379 shrq   $0x1,%rdx
380 pushq  %rbp
381 andq   %rax,%rdx
382 andq   %rdi,%rax
383 addq   %rax,%rax
384 movq   %rsp,%rbp
385 subq   $0x10,%rsp
386 orq   %rdx,%rax
387 movq   %rdi,-0x8(%rbp)
388 SET_SIZE(avl394_ic_bitreverse, avl394_ic_bitreverse_end)

```

```

390 /* Problematic functions which should not match */

392 FUNC(no_fp) /* No frame pointer */
393 movq   %rdi,%rsi
394 movq   %rsi,%rdi
395 movq   %rbx,-0x28(%rbp)
396 movq   %rcx,-0x20(%rbp)
397 movq   %rdx,-0x18(%rbp)
398 movq   %rsi,-0x10(%rbp)
399 movq   %rdi,-0x8(%rbp)
400 subq   $0x50,%rsp
401 SET_SIZE(no_fp, no_fp_end)

403 /* Small structure return, but with an SSE type (thus forcing it to the stack) *
404 FUNC(small_struct_ret_w_float)
405 pushq  %rbp
406 movq   %rsp,%rbp
407 movq   %rdi,-0x8(%rbp)
408 subq   $0x30,%rsp
409 SET_SIZE(small_struct_ret_w_float, small_struct_ret_w_float_end)

411 /* Big structure return, but with an SSE type */
412 FUNC(big_struct_ret_w_float)
413 pushq  %rbp
414 movq   %rsp,%rbp
415 movq   %rsi,-0x8(%rbp)
416 subq   $0x50,%rsp
417 movq   %rsi,-0x48(%rbp)
418 movq   -0x48(%rbp),%rax
419 movq   %rax,%rsi
420 movl   $0x400f60,%edi
421 movl   $0x0,%eax
422 movl   $0x1770,%edi
423 movl   $0x0,%eax
424 leave
425 ret
426 SET_SIZE(big_struct_ret_w_float, big_struct_ret_w_float_end)

428 FUNC(big_struct_arg_by_value)
429 pushq  %rbp
430 movq   %rsp,%rbp
431 movq   %rdi,-0x8(%rbp)
432 subq   $0x40,%rsp
433 SET_SIZE(big_struct_arg_by_value, big_struct_arg_by_value_end)

435 FUNC(small_struct_arg_by_value)
436 pushq  %rbp
437 movq   %rsp,%rbp
438 movq   %rdx,-0x18(%rbp)
439 movq   %rsi,-0x10(%rbp)
440 movq   %rdi,-0x8(%rbp)
441 subq   $0x50,%rsp
442 SET_SIZE(small_struct_arg_by_value, small_struct_arg_by_value_end)

444 FUNC(interleaved_argument_saves)
445 pushq  %rbp
446 movq   %rdi,%rax
447 shlq   $0x21,%rax
448 movq   %rsp,%rbp
449 shrq   $0x29,%rax
450 subq   $0x30,%rsp
451 movq   %rdi,-0x8(%rbp)
452 movq   %rbx,-0x28(%rbp)
453 movzbl %dil,%edi
454 movq   %rcx,-0x20(%rbp)
455 movq   %rdx,-0x18(%rbp)

```

```
456 movq    %rsi,-0x10(%rbp)
457 movq    0x0(,%rax,8),%rax
458 SET_SIZE(interleaved_argument_saves, interleaved_argument_saves_end)
459 #endif /* ! codereview */
```

```

*****
4860 Sun Feb 24 21:11:37 2013
new/usr/src/lib/libsaveargs/tests/testmatch/testmatch.c
saveargs: Implement as libsaveargs
*****
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 2012, Richard Lowe.
14  */

16 #include <stdio.h>
17 #include <sys/types.h>
18 #include <saveargs.h>

20 #define DEF_TEST(name) \
21     extern uint8_t name[]; \
22     extern int name##_end

24 #define SIZE_OF(name) ((caddr_t)&name##_end - (caddr_t)&name)

26 #define TEST_GOOD(name, argc) \
27     if (saveargs_has_args(name, SIZE_OF(name), argc, 0) == \
28         SAVEARGS_TRAD_ARGS) \
29     if (saveargs_has_args(name, SIZE_OF(name), argc, 0) != 0) \
30         printf("Pass: %s\n", #name); \
31     else \
32         printf("FAIL: %s\n", #name);

33 #define TEST_GOOD_STRUCT(name, argc) \
34     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) == \
35         SAVEARGS_STRUCT_ARGS) \
36         printf("Pass: %s\n", #name); \
37     else \
38         printf("FAIL: %s\n", #name);

40 /*
41  * GCC deals with structures differently, so TRAD args is actually correct for
42  * this
43  */
44 #define TEST_GOOD_GSTRUCT(name, argc) \
45     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) == \
46         SAVEARGS_TRAD_ARGS) \
47     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) != 0) \
48         printf("Pass: %s\n", #name); \
49     else \
50         printf("FAIL: %s\n", #name);

51 #define TEST_BAD(name, argc) \
52     if (saveargs_has_args(name, SIZE_OF(name), argc, 0) == \
53         SAVEARGS_NO_ARGS) \
54     if (saveargs_has_args(name, SIZE_OF(name), argc, 0) == 0) \
55         printf("Pass: %s\n", #name); \
56     else \
57         printf("FAIL: %s\n", #name);

58 #define TEST_BAD_STRUCT(name, argc) \

```

```

59     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) == \
60         SAVEARGS_NO_ARGS) \
61         printf("Pass: %s\n", #name); \
62     else \
63         printf("FAIL: %s\n", #name);

65 #define TEST_BAD_GSTRUCT(name, argc) \
66     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) == \
67         SAVEARGS_NO_ARGS) \
68     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) == 0) \
69         printf("Pass: %s\n", #name); \
70     else \
71         printf("FAIL: %s\n", #name);

72 DEF_TEST(gcc_mov_align);
73 DEF_TEST(gcc_mov_basic);
74 DEF_TEST(gcc_mov_noorder);
75 DEF_TEST(gcc_mov_struct_noorder);
76 #endif /* ! codereview */
77 DEF_TEST(gcc_mov_big_struct_ret);
78 DEF_TEST(gcc_mov_big_struct_ret_and_spill);
79 DEF_TEST(gcc_mov_small_struct_ret);
80 DEF_TEST(gcc_mov_small_struct_ret_and_spill);
81 DEF_TEST(gcc_mov_stack_spill);

83 DEF_TEST(gcc_push_align);
84 DEF_TEST(gcc_push_basic);
85 DEF_TEST(gcc_push_noorder);
86 DEF_TEST(gcc_push_struct_noorder);
87 #endif /* ! codereview */
88 DEF_TEST(gcc_push_big_struct_ret);
89 DEF_TEST(gcc_push_big_struct_ret_and_spill);
90 DEF_TEST(gcc_push_small_struct_ret);
91 DEF_TEST(gcc_push_small_struct_ret_and_spill);
92 DEF_TEST(gcc_push_stack_spill);

94 DEF_TEST(ss_mov_align);
95 DEF_TEST(ss_mov_basic);
96 DEF_TEST(ss_mov_big_struct_ret);
97 DEF_TEST(ss_mov_big_struct_ret_and_spill);
98 DEF_TEST(ss_mov_small_struct_ret);
99 DEF_TEST(ss_mov_small_struct_ret_and_spill);
100 DEF_TEST(ss_mov_stack_spill);

102 DEF_TEST(dtrace_instrumented);
103 DEF_TEST(kmem_alloc);
104 DEF_TEST(uts_kill);
105 DEF_TEST(avl394_ic_bitreverse);

107 DEF_TEST(small_struct_ret_w_float);
108 DEF_TEST(big_struct_ret_w_float);

110 DEF_TEST(interleaved_argument_saves);

112 #endif /* ! codereview */
113 /*
114  * Functions which should not match
115  */
116 * no_fp -- valid save-args sequence with no saved FP
117 * big_struct_arg_by_value -- function with big struct passed by value
118 * small_struct_arg_by_value -- function with small struct passed by value
119 */
120 DEF_TEST(no_fp);
121 DEF_TEST(big_struct_arg_by_value);
122 DEF_TEST(small_struct_arg_by_value);

```

```
124 int
125 main(int argc, char **argv)
126 {
127     TEST_GOOD(kmem_alloc, 2);
128     TEST_GOOD(uts_kill, 2);
129     TEST_GOOD(avl394_ic_bitreverse, 1);
130     TEST_GOOD(dtrace_instrumented, 4);
131     TEST_GOOD_GSTRUCT(big_struct_ret_w_float, 1);
132     TEST_GOOD_STRUCT(big_struct_ret_w_float, 1);
133     TEST_BAD(no_fp, 5);
134
135     TEST_GOOD(gcc_mov_align, 5);
136     TEST_GOOD(gcc_push_align, 5);
137     TEST_GOOD(ss_mov_align, 5);
138
139     TEST_GOOD(gcc_mov_basic, 4);
140     TEST_GOOD(gcc_push_basic, 4);
141     TEST_GOOD(ss_mov_basic, 4);
142
143     TEST_GOOD(gcc_mov_noorder, 4);
144     TEST_GOOD(gcc_push_noorder, 4);
145
146     TEST_GOOD_GSTRUCT(gcc_mov_big_struct_ret, 4);
147     TEST_GOOD_GSTRUCT(gcc_push_big_struct_ret, 4);
148     TEST_GOOD_STRUCT(gcc_mov_big_struct_ret, 4);
149     TEST_GOOD_STRUCT(gcc_push_big_struct_ret, 4);
150     TEST_GOOD_STRUCT(ss_mov_big_struct_ret, 4);
151
152     TEST_GOOD_GSTRUCT(gcc_mov_struct_noorder, 4);
153     TEST_GOOD_GSTRUCT(gcc_push_struct_noorder, 4);
154
155     TEST_GOOD_GSTRUCT(gcc_mov_big_struct_ret_and_spill, 8);
156     TEST_GOOD_GSTRUCT(gcc_push_big_struct_ret_and_spill, 8);
157     TEST_GOOD_STRUCT(gcc_mov_big_struct_ret_and_spill, 8);
158     TEST_GOOD_STRUCT(gcc_push_big_struct_ret_and_spill, 8);
159     TEST_GOOD_STRUCT(ss_mov_big_struct_ret_and_spill, 8);
160
161     TEST_GOOD(gcc_mov_small_struct_ret, 4);
162     TEST_GOOD(gcc_push_small_struct_ret, 4);
163     TEST_GOOD(ss_mov_small_struct_ret, 4);
164
165     TEST_GOOD(gcc_mov_small_struct_ret_and_spill, 8);
166     TEST_GOOD(gcc_push_small_struct_ret_and_spill, 8);
167     TEST_GOOD(ss_mov_small_struct_ret_and_spill, 8);
168
169     TEST_GOOD(gcc_mov_stack_spill, 8);
170     TEST_GOOD(gcc_push_stack_spill, 8);
171     TEST_GOOD(ss_mov_stack_spill, 8);
172
173     TEST_BAD(big_struct_arg_by_value, 2);
174     TEST_BAD(small_struct_arg_by_value, 2);
175
176     TEST_BAD(small_struct_ret_w_float, 1);
177
178     TEST_GOOD(interleaved_argument_saves, 4);
179
180 #endif /* ! codereview */
181     return (0);
182 }
```



```

*****
59950 Sun Feb 24 21:11:37 2013
new/usr/src/pkg/manifests/system-library.mf
saveargs: Implement as libsaveargs
*****
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 2011 Nexenta Systems, Inc. All rights reserved.
24 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
25 # Copyright 2012 OmniTI Computer Consulting, Inc. All rights reserved.
26 #
27 #
28 <include system-library.man3.inc>
29 <include system-library.man3bsm.inc>
30 <include system-library.man3c.inc>
31 <include system-library.man3c_db.inc>
32 <include system-library.man3cfgadm.inc>
33 <include system-library.man3commutil.inc>
34 <include system-library.man3contract.inc>
35 <include system-library.man3curses.inc>
36 <include system-library.man3devid.inc>
37 <include system-library.man3devidinfo.inc>
38 <include system-library.man3dlpi.inc>
39 <include system-library.man3elf.inc>
40 <include system-library.man3exacct.inc>
41 <include system-library.man3ext.inc>
42 <include system-library.man3fstyp.inc>
43 <include system-library.man3gen.inc>
44 <include system-library.man3kstat.inc>
45 <include system-library.man3kvm.inc>
46 <include system-library.man3ldap.inc>
47 <include system-library.man3lgrp.inc>
48 <include system-library.man3lib.inc>
49 <include system-library.man3mail.inc>
50 <include system-library.man3malloc.inc>
51 <include system-library.man3mp.inc>
52 <include system-library.man3nsl.inc>
53 <include system-library.man3nvpair.inc>
54 <include system-library.man3pam.inc>
55 <include system-library.man3scf.inc>
56 <include system-library.man3sec.inc>
57 <include system-library.man3secdb.inc>
58 <include system-library.man3sip.inc>
59 <include system-library.man3socket.inc>
60 <include system-library.man3tsol.inc>
61 <include system-library.man3uuid.inc>

```

```

62 <include system-library.man3volmgt.inc>
63 <include system-library.man3xcurses.inc>
64 <include system-library.man3xnet.inc>
65 <include system-library.man4.inc>
66 <include system-library.man5.inc>
67 <include system-library.man7p.inc>
68 set name=pkg.fmri value=pkg:/system/library@$(PKGVERS)
69 set name=pkg.description \
70     value="core shared libraries for a specific instruction-set architecture"
71 set name=pkg.summary value="Core Solaris, (Shared Libs)"
72 set name=info.classification value=org.opensolaris.category.2008:System/Core
73 set name=variant.arch value=$(ARCH)
74 $(i386_ONLY)dir path=etc group=sys
75 $(i386_ONLY)dir path=etc/flash group=sys
76 $(i386_ONLY)dir path=etc/flash/postcreation group=sys mode=0700
77 $(i386_ONLY)dir path=etc/flash/precreation group=sys mode=0700
78 $(i386_ONLY)dir path=etc/flash/preexit group=sys mode=0700
79 dir path=lib
80 dir path=lib/$(ARCH64)
81 dir path=lib/crypto
82 dir path=lib/crypto/$(ARCH64)
83 dir path=lib/mpxio
84 dir path=lib/secure
85 dir path=lib/secure/$(ARCH64)
86 dir path=usr group=sys
87 dir path=usr/bin
88 dir path=usr/ccs
89 dir path=usr/ccs/lib
90 dir path=usr/ccs/lib/$(ARCH64)
91 dir path=usr/lib
92 dir path=usr/lib/$(ARCH64)
93 dir path=usr/lib/cfgadm
94 dir path=usr/lib/cfgadm/$(ARCH64)
95 dir path=usr/lib/iconv/$(ARCH64)
96 $(i386_ONLY)dir path=usr/lib/libc
97 dir path=usr/lib/lwp
98 dir path=usr/lib/lwp/$(ARCH64)
99 dir path=usr/lib/python2.6
100 dir path=usr/lib/python2.6/vendor-packages
101 dir path=usr/lib/python2.6/vendor-packages/solaris
102 dir path=usr/lib/raidcfg
103 dir path=usr/lib/raidcfg/$(ARCH64)
104 dir path=usr/lib/scsi
105 dir path=usr/lib/scsi/$(ARCH64)
106 dir path=usr/lib/scsi/plugins
107 dir path=usr/lib/scsi/plugins/scsi
108 dir path=usr/lib/scsi/plugins/scsi/engines
109 dir path=usr/lib/scsi/plugins/scsi/engines/$(ARCH64)
110 dir path=usr/lib/scsi/plugins/ses
111 dir path=usr/lib/scsi/plugins/ses/framework
112 dir path=usr/lib/scsi/plugins/ses/framework/$(ARCH64)
113 dir path=usr/lib/scsi/plugins/ses/vendor
114 $(sparc_ONLY)dir path=usr/lib/scsi/plugins/ses/vendor/$(ARCH64)
115 dir path=usr/lib/scsi/plugins/smp
116 dir path=usr/lib/scsi/plugins/smp/engine
117 dir path=usr/lib/scsi/plugins/smp/engine/$(ARCH64)
118 dir path=usr/lib/scsi/plugins/smp/framework
119 dir path=usr/lib/scsi/plugins/smp/framework/$(ARCH64)
120 dir path=usr/lib/security
121 dir path=usr/lib/security/$(ARCH64)
122 dir path=usr/share/man
123 dir path=usr/share/man/man3
124 dir path=usr/share/man/man3bsm
125 dir path=usr/share/man/man3c
126 dir path=usr/share/man/man3c_db
127 dir path=usr/share/man/man3cfgadm

```

```

128 dir path=usr/share/man/man3computil
129 dir path=usr/share/man/man3contract
130 dir path=usr/share/man/man3curses
131 dir path=usr/share/man/man3devid
132 dir path=usr/share/man/man3devinfo
133 dir path=usr/share/man/man3dlpi
134 dir path=usr/share/man/man3elf
135 dir path=usr/share/man/man3exacct
136 dir path=usr/share/man/man3ext
137 dir path=usr/share/man/man3fstyp
138 dir path=usr/share/man/man3gen
139 dir path=usr/share/man/man3kstat
140 dir path=usr/share/man/man3kvm
141 dir path=usr/share/man/man3ldap
142 dir path=usr/share/man/man3lgrp
143 dir path=usr/share/man/man3lib
144 dir path=usr/share/man/man3mail
145 dir path=usr/share/man/man3malloc
146 dir path=usr/share/man/man3mp
147 dir path=usr/share/man/man3nsl
148 dir path=usr/share/man/man3nvpair
149 dir path=usr/share/man/man3pam
150 dir path=usr/share/man/man3pool
151 dir path=usr/share/man/man3scf
152 dir path=usr/share/man/man3sec
153 dir path=usr/share/man/man3secdb
154 dir path=usr/share/man/man3sip
155 dir path=usr/share/man/man3socket
156 dir path=usr/share/man/man3tsol
157 dir path=usr/share/man/man3uuid
158 dir path=usr/share/man/man3volmgt
159 dir path=usr/share/man/man3xcurses
160 dir path=usr/share/man/man3xnet
161 dir path=usr/share/man/man5
162 dir path=usr/share/man/man7p
163 dir path=usr/xpg4
164 dir path=usr/xpg4/lib
165 dir path=usr/xpg4/lib/${ARCH64}
166 ${i386_ONLY}file path=etc/flash/precreation/caplib group=sys mode=0500
167 file path=lib/${ARCH64}/c_synonyms.so.1
168 file path=lib/${ARCH64}/ld.so.1
169 file path=lib/${ARCH64}/libadm.so.1
170 file path=lib/${ARCH64}/libaio.so.1
171 file path=lib/${ARCH64}/libavl.so.1
172 file path=lib/${ARCH64}/libbsm.so.1
173 file path=lib/${ARCH64}/libc.so.1
174 file path=lib/${ARCH64}/libc_db.so.1
175 file path=lib/${ARCH64}/libcmdutils.so.1
176 file path=lib/${ARCH64}/libcontract.so.1
177 file path=lib/${ARCH64}/libcryptoutil.so.1
178 file path=lib/${ARCH64}/libctf.so.1
179 file path=lib/${ARCH64}/libcurses.so.1
180 file path=lib/${ARCH64}/libdevice.so.1
181 file path=lib/${ARCH64}/libdevvid.so.1
182 file path=lib/${ARCH64}/libdevinfo.so.1
183 file path=lib/${ARCH64}/libdhcputil.so.1
184 file path=lib/${ARCH64}/libdl.so.1
185 file path=lib/${ARCH64}/libdladm.so.1
186 file path=lib/${ARCH64}/libdlpi.so.1
187 file path=lib/${ARCH64}/libdoor.so.1
188 file path=lib/${ARCH64}/libefi.so.1
189 file path=lib/${ARCH64}/libelf.so.1
190 ${i386_ONLY}file path=lib/${ARCH64}/libfdisk.so.1
191 file path=lib/${ARCH64}/libgen.so.1
192 file path=lib/${ARCH64}/libinetutil.so.1
193 file path=lib/${ARCH64}/libintl.so.1

```

```

194 file path=lib/${ARCH64}/libkmf.so.1
195 file path=lib/${ARCH64}/libkmfborder.so.1
196 file path=lib/${ARCH64}/libkstat.so.1
197 file path=lib/${ARCH64}/libld.so.4
198 file path=lib/${ARCH64}/liblddbg.so.4
199 file path=lib/${ARCH64}/libmd.so.1
200 file path=lib/${ARCH64}/libmd5.so.1
201 file path=lib/${ARCH64}/libmp.so.2
202 file path=lib/${ARCH64}/libnsl.so.1
203 file path=lib/${ARCH64}/libnvpair.so.1
204 file path=lib/${ARCH64}/libpam.so.1
205 file path=lib/${ARCH64}/libproc.so.1
206 file path=lib/${ARCH64}/libpthread.so.1
207 file path=lib/${ARCH64}/librcm.so.1
208 file path=lib/${ARCH64}/libresolv.so.2
209 file path=lib/${ARCH64}/librestart.so.1
210 file path=lib/${ARCH64}/librpcsvc.so.1
211 file path=lib/${ARCH64}/librt.so.1
212 file path=lib/${ARCH64}/librtld.so.1
213 file path=lib/${ARCH64}/librtld_db.so.1
214 file path=lib/${ARCH64}/libscf.so.1
215 file path=lib/${ARCH64}/libsec.so.1
216 file path=lib/${ARCH64}/libsecdb.so.1
217 file path=lib/${ARCH64}/libsendfile.so.1
218 file path=lib/${ARCH64}/libsocket.so.1
219 file path=lib/${ARCH64}/libsysevent.so.1
220 file path=lib/${ARCH64}/libtermcap.so.1
221 file path=lib/${ARCH64}/libthread.so.1
222 file path=lib/${ARCH64}/libtsnet.so.1
223 file path=lib/${ARCH64}/libtsol.so.2
224 file path=lib/${ARCH64}/libumem.so.1
225 file path=lib/${ARCH64}/libuuid.so.1
226 file path=lib/${ARCH64}/libuutil.so.1
227 file path=lib/${ARCH64}/libw.so.1
228 file path=lib/${ARCH64}/libxnet.so.1
229 file path=lib/${ARCH64}/nss_compat.so.1
230 file path=lib/${ARCH64}/nss_dns.so.1
231 file path=lib/${ARCH64}/nss_files.so.1
232 file path=lib/${ARCH64}/nss_nis.so.1
233 file path=lib/${ARCH64}/nss_user.so.1
234 file path=lib/c_synonyms.so.1
235 file path=lib/crypto/${ARCH64}/kmf_mapper_cn.so.1
236 file path=lib/crypto/${ARCH64}/kmf_nss.so.1
237 file path=lib/crypto/${ARCH64}/kmf_openssl.so.1
238 file path=lib/crypto/${ARCH64}/kmf_pkcs11.so.1
239 file path=lib/crypto/kmf_mapper_cn.so.1
240 file path=lib/crypto/kmf_nss.so.1
241 file path=lib/crypto/kmf_openssl.so.1
242 file path=lib/crypto/kmf_pkcs11.so.1
243 file path=lib/ld.so.1
244 file path=lib/libadm.so.1
245 file path=lib/libaio.so.1
246 file path=lib/libavl.so.1
247 file path=lib/libbsm.so.1
248 file path=lib/libc.so.1 reboot-needed=true
249 file path=lib/libc_db.so.1
250 file path=lib/libcmdutils.so.1
251 file path=lib/libcontract.so.1
252 file path=lib/libcryptoutil.so.1
253 file path=lib/libctf.so.1
254 file path=lib/libcurses.so.1
255 file path=lib/libdevice.so.1
256 file path=lib/libdevvid.so.1
257 file path=lib/libdevinfo.so.1
258 file path=lib/libdhcpageant.so.1
259 file path=lib/libdhcputil.so.1

```

```

260 file path=lib/libdl.so.1
261 file path=lib/libldadm.so.1
262 file path=lib/libdlpi.so.1
263 file path=lib/libdoor.so.1
264 file path=lib/libefi.so.1
265 file path=lib/libelf.so.1
266 file path=lib/libelfsign.so.1
267 $(i386_ONLY)file path=lib/libfdisk.so.1
268 file path=lib/libgen.so.1
269 file path=lib/libinetutil.so.1
270 file path=lib/libintl.so.1
271 file path=lib/libipadm.so.1
272 file path=lib/libipmp.so.1
273 file path=lib/libkcf.so.1
274 file path=lib/libkmf.so.1
275 file path=lib/libkrmfberder.so.1
276 file path=lib/libkstat.so.1
277 file path=lib/libld.so.4
278 file path=lib/liblddbg.so.4
279 file path=lib/libmd.so.1
280 file path=lib/libmd5.so.1
281 file path=lib/libmp.so.1
282 file path=lib/libmp.so.2
283 file path=lib/libnsl.so.1
284 file path=lib/libnvpair.so.1
285 file path=lib/libnwm.so.1
286 file path=lib/libpam.so.1
287 file path=lib/libproc.so.1
288 file path=lib/libpthread.so.1
289 file path=lib/librcm.so.1
290 file path=lib/libresolv.so.1
291 file path=lib/libresolv.so.2
292 file path=lib/librestart.so.1
293 file path=lib/librpcsvc.so.1
294 file path=lib/librt.so.1
295 file path=lib/librtld.so.1
296 file path=lib/librtld_db.so.1
297 file path=lib/libscf.so.1
298 file path=lib/libsec.so.1
299 file path=lib/libsecdb.so.1
300 file path=lib/libsendfile.so.1
301 file path=lib/libsocket.so.1
302 file path=lib/libsysevent.so.1
303 file path=lib/libtermcap.so.1
304 file path=lib/libthread.so.1
305 file path=lib/libtsnet.so.1
306 file path=lib/libtsol.so.2
307 file path=lib/libumem.so.1
308 file path=lib/libuuid.so.1
309 file path=lib/libuutil.so.1
310 file path=lib/libw.so.1
311 file path=lib/libxnet.so.1
312 file path=lib/mpxio/stmsboot_util mode=0555
313 file path=lib/nss_compat.so.1
314 file path=lib/nss_dns.so.1
315 file path=lib/nss_files.so.1
316 file path=lib/nss_nis.so.1
317 file path=lib/nss_user.so.1
318 file path=usr/lib/$(ARCH64)/0@0.so.1
319 file path=usr/lib/$(ARCH64)/libadutils.so.1
320 file path=usr/lib/$(ARCH64)/libast.so.1
321 file path=usr/lib/$(ARCH64)/libbsdmalloc.so.1
322 file path=usr/lib/$(ARCH64)/libcfgadm.so.1
323 file path=usr/lib/$(ARCH64)/libcmd.so.1
324 file path=usr/lib/$(ARCH64)/libcommputil.so.1
325 file path=usr/lib/$(ARCH64)/libcrle.so.1

```

```

326 file path=usr/lib/$(ARCH64)/libcrypt.so.1
327 file path=usr/lib/$(ARCH64)/libdisasm.so.1
328 file path=usr/lib/$(ARCH64)/libdll.so.1
329 file path=usr/lib/$(ARCH64)/libexacct.so.1
330 file path=usr/lib/$(ARCH64)/libform.so.1
331 file path=usr/lib/$(ARCH64)/libfstyp.so.1
332 file path=usr/lib/$(ARCH64)/libhotplug.so.1
333 file path=usr/lib/$(ARCH64)/libidmap.so.1
334 file path=usr/lib/$(ARCH64)/libike.so.1
335 file path=usr/lib/$(ARCH64)/libipmi.so.1
336 file path=usr/lib/$(ARCH64)/libipp.so.1
337 file path=usr/lib/$(ARCH64)/libipsecutil.so.1
338 file path=usr/lib/$(ARCH64)/libkvm.so.1
339 file path=usr/lib/$(ARCH64)/libl.so.1
340 file path=usr/lib/$(ARCH64)/libldap.so.5
341 file path=usr/lib/$(ARCH64)/liblgrp.so.1
342 file path=usr/lib/$(ARCH64)/liblm.so.1
343 file path=usr/lib/$(ARCH64)/libmail.so.1
344 file path=usr/lib/$(ARCH64)/libmalloc.so.1
345 file path=usr/lib/$(ARCH64)/libmapmalloc.so.1
346 file path=usr/lib/$(ARCH64)/libmenu.so.1
347 file path=usr/lib/$(ARCH64)/libmtmalloc.so.1
348 file path=usr/lib/$(ARCH64)/libnls.so.1
349 file path=usr/lib/$(ARCH64)/libpanel.so.1
350 file path=usr/lib/$(ARCH64)/libpkcs11.so.1
351 file path=usr/lib/$(ARCH64)/libproject.so.1
352 file path=usr/lib/$(ARCH64)/libraidcfg.so.1
353 file path=usr/lib/$(ARCH64)/librepase.so.1
354 $(i386_ONLY)file path=usr/lib/$(ARCH64)/libsavargs.so.1
355 #endif /* ! codereview */
356 file path=usr/lib/$(ARCH64)/libsched.so.1
357 file path=usr/lib/$(ARCH64)/libsctp.so.1
358 file path=usr/lib/$(ARCH64)/libshell.so.1
359 file path=usr/lib/$(ARCH64)/libsip.so.1
360 file path=usr/lib/$(ARCH64)/libslldap.so.1
361 file path=usr/lib/$(ARCH64)/libsmbios.so.1
362 file path=usr/lib/$(ARCH64)/libsoftcrypto.so.1
363 file path=usr/lib/$(ARCH64)/libsum.so.1
364 $(sparc_ONLY)file path=usr/lib/$(ARCH64)/libv12n.so.1
365 file path=usr/lib/$(ARCH64)/libvolmgt.so.1
366 file path=usr/lib/$(ARCH64)/liby.so.1
367 file path=usr/lib/$(ARCH64)/libzoneinfo.so.1
368 file path=usr/lib/$(ARCH64)/nss_ad.so.1
369 file path=usr/lib/$(ARCH64)/nss_ldap.so.1
370 file path=usr/lib/$(ARCH64)/passwdutil.so.1
371 file path=usr/lib/$(ARCH64)/straddr.so.2
372 file path=usr/lib/$(ARCH64)/watchmalloc.so.1
373 file path=usr/lib/0@0.so.1
374 file path=usr/lib/cfgadm/$(ARCH64)/ib.so.1
375 file path=usr/lib/cfgadm/$(ARCH64)/pci.so.1
376 $(i386_ONLY)file path=usr/lib/cfgadm/$(ARCH64)/sata.so.1
377 file path=usr/lib/cfgadm/$(ARCH64)/scsi.so.1
378 file path=usr/lib/cfgadm/$(ARCH64)/shp.so.1
379 file path=usr/lib/cfgadm/$(ARCH64)/usb.so.1
380 file path=usr/lib/cfgadm/ib.so.1
381 file path=usr/lib/cfgadm/pci.so.1
382 $(i386_ONLY)file path=usr/lib/cfgadm/sata.so.1
383 file path=usr/lib/cfgadm/scsi.so.1
384 file path=usr/lib/cfgadm/shp.so.1
385 file path=usr/lib/cfgadm/usb.so.1
386 file path=usr/lib/extendedFILE.so.1
387 file path=usr/lib/lib.b mode=0444
388 file path=usr/lib/libadutils.so.1
389 file path=usr/lib/libast.so.1
390 file path=usr/lib/libbsdmalloc.so.1
391 $(i386_ONLY)file path=usr/lib/libc/libc_hwcap1.so.1 reboot-needed=true

```

```

392 $(i386_ONLY)file path=usr/lib/libc/libc_hwcapi2.so.1 reboot-needed=true
393 $(i386_ONLY)file path=usr/lib/libc/libc_hwcapi3.so.1 reboot-needed=true
394 file path=usr/lib/libc/gadm.so.1
395 file path=usr/lib/libc/md.so.1
396 file path=usr/lib/libcommutil.so.1
397 file path=usr/lib/libcrle.so.1
398 file path=usr/lib/libcrypt.so.1
399 file path=usr/lib/libdisasm.so.1
400 file path=usr/lib/libdll.so.1
401 file path=usr/lib/libexacct.so.1
402 file path=usr/lib/libform.so.1
403 file path=usr/lib/libfstyp.so.1
404 file path=usr/lib/libhotplug.so.1
405 file path=usr/lib/libidmap.so.1
406 file path=usr/lib/libike.so.1
407 file path=usr/lib/libinetsvc.so.1
408 file path=usr/lib/libipmi.so.1
409 file path=usr/lib/libipp.so.1
410 file path=usr/lib/libipsecutil.so.1
411 file path=usr/lib/libkvm.so.1
412 file path=usr/lib/libl.so.1
413 file path=usr/lib/libldap.so.5
414 file path=usr/lib/liblgrp.so.1
415 file path=usr/lib/liblm.so.1
416 file path=usr/lib/libmail.so.1
417 file path=usr/lib/libmalloc.so.1
418 file path=usr/lib/libmapmalloc.so.1
419 file path=usr/lib/libmenu.so.1
420 file path=usr/lib/libmtmalloc.so.1
421 file path=usr/lib/libnls.so.1
422 file path=usr/lib/libpanel.so.1
423 file path=usr/lib/libpkcs11.so.1
424 file path=usr/lib/libproject.so.1
425 file path=usr/lib/libraidcfg.so.1
426 file path=usr/lib/librepase.so.1
427 file path=usr/lib/libsched.so.1
428 file path=usr/lib/libsectp.so.1
429 file path=usr/lib/libshell.so.1
430 file path=usr/lib/libsip.so.1
431 file path=usr/lib/libslldap.so.1
432 file path=usr/lib/libsbios.so.1
433 file path=usr/lib/libsoftcrypto.so.1
434 file path=usr/lib/libsum.so.1
435 file path=usr/lib/libsys.so.1
436 $(sparc_ONLY)file path=usr/lib/libv12n.so.1
437 file path=usr/lib/libvolmgt.so.1
438 file path=usr/lib/libwrap.so.1.0
439 file path=usr/lib/liby.so.1
440 file path=usr/lib/libzoneinfo.so.1
441 file path=usr/lib/nss_ad.so.1
442 file path=usr/lib/nss_ldap.so.1
443 file path=usr/lib/passwdutil.so.1
444 file path=usr/lib/python2.6/vendor-packages/solaris/__init__.py
445 file path=usr/lib/python2.6/vendor-packages/solaris/__init__.pyc
446 file path=usr/lib/python2.6/vendor-packages/solaris/misc.so
447 file path=usr/lib/raidcfg/$(ARCH64)/mpt.so.1
448 file path=usr/lib/raidcfg/mpt.so.1
449 file path=usr/lib/scsi/$(ARCH64)/libscsi.so.1
450 file path=usr/lib/scsi/$(ARCH64)/libses.so.1
451 file path=usr/lib/scsi/$(ARCH64)/libsmp.so.1
452 file path=usr/lib/scsi/libscsi.so.1
453 file path=usr/lib/scsi/libses.so.1
454 file path=usr/lib/scsi/libsmp.so.1
455 file path=usr/lib/scsi/plugins/scsi/engines/$(ARCH64)/uscsci.so
456 file path=usr/lib/scsi/plugins/scsi/engines/uscsci.so
457 file path=usr/lib/scsi/plugins/ses/framework/$(ARCH64)/libses.so

```

```

458 file path=usr/lib/scsi/plugins/ses/framework/$(ARCH64)/ses2.so
459 file path=usr/lib/scsi/plugins/ses/framework/libses.so
460 file path=usr/lib/scsi/plugins/ses/framework/ses2.so
461 file path=usr/lib/scsi/plugins/smp/engine/$(ARCH64)/usmp.so
462 file path=usr/lib/scsi/plugins/smp/engine/usmp.so
463 file path=usr/lib/scsi/plugins/smp/framework/$(ARCH64)/sas2.so
464 file path=usr/lib/scsi/plugins/smp/framework/sas2.so
465 file path=usr/lib/security/$(ARCH64)/crypt_bsdmbf.so.1
466 file path=usr/lib/security/$(ARCH64)/crypt_bsdmd5.so.1
467 file path=usr/lib/security/$(ARCH64)/crypt_sha256.so.1
468 file path=usr/lib/security/$(ARCH64)/crypt_sha512.so.1
469 file path=usr/lib/security/$(ARCH64)/crypt_sunmd5.so.1
470 file path=usr/lib/security/$(ARCH64)/pam_allow.so.1
471 file path=usr/lib/security/$(ARCH64)/pam_authok_check.so.1
472 file path=usr/lib/security/$(ARCH64)/pam_authok_get.so.1
473 file path=usr/lib/security/$(ARCH64)/pam_authok_store.so.1
474 file path=usr/lib/security/$(ARCH64)/pam_deny.so.1
475 file path=usr/lib/security/$(ARCH64)/pam_dhkeys.so.1
476 file path=usr/lib/security/$(ARCH64)/pam_dial_auth.so.1
477 file path=usr/lib/security/$(ARCH64)/pam_ldap.so.1
478 file path=usr/lib/security/$(ARCH64)/pam_list.so.1
479 file path=usr/lib/security/$(ARCH64)/pam_passwd_auth.so.1
480 file path=usr/lib/security/$(ARCH64)/pam_rhosts_auth.so.1
481 file path=usr/lib/security/$(ARCH64)/pam_roles.so.1
482 file path=usr/lib/security/$(ARCH64)/pam_sample.so.1
483 file path=usr/lib/security/$(ARCH64)/pam_tsol_account.so.1
484 file path=usr/lib/security/$(ARCH64)/pam_unix_account.so.1
485 file path=usr/lib/security/$(ARCH64)/pam_unix_auth.so.1
486 file path=usr/lib/security/$(ARCH64)/pam_unix_cred.so.1
487 file path=usr/lib/security/$(ARCH64)/pam_unix_session.so.1
488 file path=usr/lib/security/$(ARCH64)/pkcs11_kernel.so.1
489 file path=usr/lib/security/$(ARCH64)/pkcs11_softtoken.so.1
490 file path=usr/lib/security/$(ARCH64)/pkcs11_tpm.so.1
491 file path=usr/lib/security/audit_binfile.so.1
492 file path=usr/lib/security/audit_remote.so.1
493 file path=usr/lib/security/audit_syslog.so.1
494 file path=usr/lib/security/crypt_bsdmbf.so.1
495 file path=usr/lib/security/crypt_bsdmd5.so.1
496 file path=usr/lib/security/crypt_sha256.so.1
497 file path=usr/lib/security/crypt_sha512.so.1
498 file path=usr/lib/security/crypt_sunmd5.so.1
499 file path=usr/lib/security/pam_allow.so.1
500 file path=usr/lib/security/pam_authok_check.so.1
501 file path=usr/lib/security/pam_authok_get.so.1
502 file path=usr/lib/security/pam_authok_store.so.1
503 file path=usr/lib/security/pam_deny.so.1
504 file path=usr/lib/security/pam_dhkeys.so.1
505 file path=usr/lib/security/pam_dial_auth.so.1
506 file path=usr/lib/security/pam_ldap.so.1
507 file path=usr/lib/security/pam_list.so.1
508 file path=usr/lib/security/pam_passwd_auth.so.1
509 file path=usr/lib/security/pam_rhosts_auth.so.1
510 file path=usr/lib/security/pam_roles.so.1
511 file path=usr/lib/security/pam_sample.so.1
512 file path=usr/lib/security/pam_tsol_account.so.1
513 file path=usr/lib/security/pam_unix_account.so.1
514 file path=usr/lib/security/pam_unix_auth.so.1
515 file path=usr/lib/security/pam_unix_cred.so.1
516 file path=usr/lib/security/pam_unix_session.so.1
517 file path=usr/lib/security/pkcs11_kernel.so.1
518 file path=usr/lib/security/pkcs11_softtoken.so.1
519 file path=usr/lib/security/pkcs11_tpm.so.1
520 file path=usr/lib/straddr.so.2
521 file path=usr/lib/watchmalloc.so.1
522 # XXX: Obsoleted by open i18n?
523 file path=usr/xpg4/lib/$(ARCH64)/libcurses.so.1

```

```

524 file path=usr/xpg4/lib/$(ARCH64)/libcurses.so.2
525 file path=usr/xpg4/lib/libcurses.so.1
526 file path=usr/xpg4/lib/libcurses.so.2
527 legacy pkg=SUNWcslr \
528   desc="Core shared libraries for a specific instruction-set architecture" \
529   name="Core Solaris, (Shared Libs)"
530 legacy pkg=SUNWcslr \
531   desc="Core software for a specific instruction-set architecture" \
532   name="Core Solaris Libraries (Root)"
533 license cr_Sun license=cr_Sun
534 license lic_CDDL license=lic_CDDL
535 license lic_OSBL license=lic_OSBL
536 license lic_OSBL_preamble license=lic_OSBL_preamble
537 # libwrap is part of tcp wrappers along with tcpd
538 license usr/src/cmd/tcpd/THIRDPARTYLICENSE \
539   license=usr/src/cmd/tcpd/THIRDPARTYLICENSE
540 license usr/src/common/crypto/THIRDPARTYLICENSE.cryptogams \
541   license=usr/src/common/crypto/THIRDPARTYLICENSE.cryptogams
542 license usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.gladman \
543   license=usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.gladman
544 license usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.openssl \
545   license=usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.openssl
546 license usr/src/common/crypto/ecc/THIRDPARTYLICENSE \
547   license=usr/src/common/crypto/ecc/THIRDPARTYLICENSE
548 license usr/src/common/crypto/md5/amd64/THIRDPARTYLICENSE \
549   license=usr/src/common/crypto/md5/amd64/THIRDPARTYLICENSE
550 license usr/src/common/mpi/THIRDPARTYLICENSE \
551   license=usr/src/common/mpi/THIRDPARTYLICENSE
552 license usr/src/lib/libast/THIRDPARTYLICENSE \
553   license=usr/src/lib/libast/THIRDPARTYLICENSE
554 license usr/src/lib/libbsdmalloc/THIRDPARTYLICENSE \
555   license=usr/src/lib/libbsdmalloc/THIRDPARTYLICENSE
556 license usr/src/lib/libc/THIRDPARTYLICENSE \
557   license=usr/src/lib/libc/THIRDPARTYLICENSE
558 license usr/src/lib/libcmd/THIRDPARTYLICENSE \
559   license=usr/src/lib/libcmd/THIRDPARTYLICENSE
560 license usr/src/lib/libdll/THIRDPARTYLICENSE \
561   license=usr/src/lib/libdll/THIRDPARTYLICENSE
562 license usr/src/lib/libinetutil/common/THIRDPARTYLICENSE \
563   license=usr/src/lib/libinetutil/common/THIRDPARTYLICENSE
564 license usr/src/lib/libkmf/THIRDPARTYLICENSE \
565   license=usr/src/lib/libkmf/THIRDPARTYLICENSE
566 license usr/src/lib/libldap5/THIRDPARTYLICENSE \
567   license=usr/src/lib/libldap5/THIRDPARTYLICENSE
568 license usr/src/lib/libmp/common/THIRDPARTYLICENSE \
569   license=usr/src/lib/libmp/common/THIRDPARTYLICENSE
570 license usr/src/lib/libresolv/THIRDPARTYLICENSE \
571   license=usr/src/lib/libresolv/THIRDPARTYLICENSE
572 license usr/src/lib/libresolv2/THIRDPARTYLICENSE \
573   license=usr/src/lib/libresolv2/THIRDPARTYLICENSE
574 license usr/src/lib/libshell/THIRDPARTYLICENSE \
575   license=usr/src/lib/libshell/THIRDPARTYLICENSE
576 license usr/src/lib/libsum/THIRDPARTYLICENSE \
577   license=usr/src/lib/libsum/THIRDPARTYLICENSE
578 license usr/src/lib/pam_modules/authok_check/THIRDPARTYLICENSE \
579   license=usr/src/lib/pam_modules/authok_check/THIRDPARTYLICENSE
580 license usr/src/lib/passwdutil/THIRDPARTYLICENSE \
581   license=usr/src/lib/passwdutil/THIRDPARTYLICENSE
582 license usr/src/lib/pkcs11/pkcs11_tpm/THIRDPARTYLICENSE \
583   license=usr/src/lib/pkcs11/pkcs11_tpm/THIRDPARTYLICENSE
584 license usr/src/uts/common/sys/THIRDPARTYLICENSE.unicod \
585   license=usr/src/uts/common/sys/THIRDPARTYLICENSE.unicod
586 link path=lib/$(ARCH64)/libadm.so target=libadm.so.1
587 link path=lib/$(ARCH64)/libaio.so target=libaio.so.1
588 link path=lib/$(ARCH64)/libbsm.so target=libbsm.so.1
589 link path=lib/$(ARCH64)/libc.so reboot-needed=true target=libc.so.1

```

```

590 link path=lib/$(ARCH64)/libc_db.so target=libc_db.so.1
591 link path=lib/$(ARCH64)/libcontract.so target=libcontract.so.1
592 link path=lib/$(ARCH64)/libcryptoutil.so target=libcryptoutil.so.1
593 link path=lib/$(ARCH64)/libctf.so target=libctf.so.1
594 link path=lib/$(ARCH64)/libcurses.so target=libcurses.so.1
595 link path=lib/$(ARCH64)/libdevice.so target=libdevice.so.1
596 link path=lib/$(ARCH64)/libdevinfo.so target=libdevinfo.so.1
597 link path=lib/$(ARCH64)/libdl.so target=libdl.so.1
598 link path=lib/$(ARCH64)/libdladm.so target=libdladm.so.1
599 link path=lib/$(ARCH64)/libdlpi.so target=libdlpi.so.1
600 link path=lib/$(ARCH64)/libdoor.so target=libdoor.so.1
601 link path=lib/$(ARCH64)/libefi.so target=libefi.so.1
602 link path=lib/$(ARCH64)/libelf.so target=libelf.so.1
603 link path=lib/$(ARCH64)/libfdisk.so target=libfdisk.so.1
604 $(i386_ONLY)link path=lib/$(ARCH64)/libfdisk.so target=libfdisk.so.1
605 link path=lib/$(ARCH64)/libgen.so target=libgen.so.1
606 link path=lib/$(ARCH64)/libintl.so target=libintl.so.1
607 link path=lib/$(ARCH64)/libkmf.so target=libkmf.so.1
608 link path=lib/$(ARCH64)/libkmfborder.so target=libkmfborder.so.1
609 link path=lib/$(ARCH64)/libkstat.so target=libkstat.so.1
610 link path=lib/$(ARCH64)/libmd.so target=libmd.so.1
611 link path=lib/$(ARCH64)/libmd5.so target=libmd5.so.1
612 link path=lib/$(ARCH64)/libmp.so target=libmp.so.2
613 link path=lib/$(ARCH64)/libnsl.so target=libnsl.so.1
614 link path=lib/$(ARCH64)/libnvpair.so target=libnvpair.so.1
615 link path=lib/$(ARCH64)/libpam.so target=libpam.so.1
616 link path=lib/$(ARCH64)/libposix4.so target=libposix4.so.1
617 link path=lib/$(ARCH64)/libposix4.so.1 target=librt.so.1
618 link path=lib/$(ARCH64)/libproc.so target=libproc.so.1
619 link path=lib/$(ARCH64)/libpthread.so target=libpthread.so.1
620 link path=lib/$(ARCH64)/librcm.so target=librcm.so.1
621 link path=lib/$(ARCH64)/libresolv.so target=libresolv.so.2
622 link path=lib/$(ARCH64)/librestart.so target=librestart.so.1
623 link path=lib/$(ARCH64)/librpcsvc.so target=librpcsvc.so.1
624 link path=lib/$(ARCH64)/librt.so target=librt.so.1
625 link path=lib/$(ARCH64)/librtld_db.so target=librtld_db.so.1
626 link path=lib/$(ARCH64)/libscf.so target=libscf.so.1
627 link path=lib/$(ARCH64)/libsec.so target=libsec.so.1
628 link path=lib/$(ARCH64)/libsecdb.so target=libsecdb.so.1
629 link path=lib/$(ARCH64)/libsndfile.so target=libsndfile.so.1
630 link path=lib/$(ARCH64)/libsocket.so target=libsocket.so.1
631 link path=lib/$(ARCH64)/libsysevent.so target=libsysevent.so.1
632 link path=lib/$(ARCH64)/libtermcap.so target=libtermcap.so.1
633 link path=lib/$(ARCH64)/libtermmlib.so target=libtermmlib.so.1
634 link path=lib/$(ARCH64)/libtermmlib.so.1 target=libcurses.so.1
635 link path=lib/$(ARCH64)/libthread.so target=libthread.so.1
636 link path=lib/$(ARCH64)/libthread_db.so target=libc_db.so.1
637 link path=lib/$(ARCH64)/libthread_db.so.1 target=libc_db.so.1
638 link path=lib/$(ARCH64)/libtsnet.so target=libtsnet.so.1
639 link path=lib/$(ARCH64)/libtsol.so target=libtsol.so.2
640 link path=lib/$(ARCH64)/libumem.so target=libumem.so.1
641 link path=lib/$(ARCH64)/libuuid.so target=libuuid.so.1
642 link path=lib/$(ARCH64)/libuutil.so target=libuutil.so.1
643 link path=lib/$(ARCH64)/libw.so target=libw.so.1
644 link path=lib/$(ARCH64)/libxnet.so target=libxnet.so.1
645 link path=lib/32 target=-
646 link path=lib/64 target=$(ARCH64)
647 link path=lib/crypto/32 target=-
648 link path=lib/crypto/64 target=$(ARCH64)
649 link path=lib/libadm.so target=libadm.so.1
650 link path=lib/libaio.so target=libaio.so.1
651 link path=lib/libbsm.so target=libbsm.so.1
652 link path=lib/libc.so target=libc.so.1
653 link path=lib/libc_db.so target=libc_db.so.1
654 link path=lib/libcontract.so target=libcontract.so.1
655 link path=lib/libcryptoutil.so target=./libcryptoutil.so.1

```

```

656 link path=lib/libctf.so target=libctf.so.1
657 link path=lib/libcurses.so target=libcurses.so.1
658 link path=lib/libdevice.so target=libdevice.so.1
659 link path=lib/libdevvid.so target=libdevvid.so.1
660 link path=lib/libdevinfo.so target=libdevinfo.so.1
661 link path=lib/libdl.so target=libdl.so.1
662 link path=lib/libldadm.so target=libldadm.so.1
663 link path=lib/libdlpi.so target=libdlpi.so.1
664 link path=lib/libdoor.so target=libdoor.so.1
665 link path=lib/libefi.so target=libefi.so.1
666 link path=lib/libelf.so target=libelf.so.1
667 link path=lib/libelfsign.so target=libelfsign.so.1
668 $(i386_ONLY)link path=lib/libfdisk.so target=libfdisk.so.1
669 link path=lib/libgen.so target=libgen.so.1
670 link path=lib/libintl.so target=libintl.so.1
671 link path=lib/libipmp.so target=libipmp.so.1
672 link path=lib/libkmf.so target=libkmf.so.1
673 link path=lib/libkmfberder.so target=libkmfberder.so.1
674 link path=lib/libkstat.so target=libkstat.so.1
675 link path=lib/libmd.so target=libmd.so.1
676 link path=lib/libmd5.so target=libmd5.so.1
677 link path=lib/libmp.so target=libmp.so.2
678 link path=lib/libnsl.so target=libnsl.so.1
679 link path=lib/libnvpair.so target=libnvpair.so.1
680 link path=lib/libnwm.so target=libnwm.so.1
681 link path=lib/libpam.so target=libpam.so.1
682 link path=lib/libposix4.so target=libposix4.so.1
683 link path=lib/libposix4.so.1 target=librt.so.1
684 link path=lib/libproc.so target=libproc.so.1
685 link path=lib/libpthread.so target=libpthread.so.1
686 link path=lib/librcm.so target=librcm.so.1
687 link path=lib/libresolv.so target=libresolv.so.2
688 link path=lib/librpsvc.so target=librpsvc.so.1
689 link path=lib/librt.so target=librt.so.1
690 link path=lib/librtld_db.so target=librtld_db.so.1
691 link path=lib/libscf.so target=libscf.so.1
692 link path=lib/libsec.so target=libsec.so.1
693 link path=lib/libsecdb.so target=libsecdb.so.1
694 link path=lib/libsendfile.so target=libsendfile.so.1
695 link path=lib/libsocket.so target=libsocket.so.1
696 link path=lib/libsysevent.so target=libsysevent.so.1
697 link path=lib/libtermcap.so target=libtermcap.so.1
698 link path=lib/libtermmlib.so target=libtermmlib.so.1
699 link path=lib/libtermmlib.so.1 target=libcurses.so.1
700 link path=lib/libthread.so target=libthread.so.1
701 link path=lib/libthread_db.so target=libc_db.so.1
702 link path=lib/libthread_db.so.1 target=libc_db.so.1
703 link path=lib/libtsol.so target=libtsol.so.2
704 link path=lib/libumem.so target=libumem.so.1
705 link path=lib/libuuid.so target=libuuid.so.1
706 link path=lib/libw.so target=libw.so.1
707 link path=lib/libxnet.so target=libxnet.so.1
708 link path=lib/secure/32 target=
709 link path=lib/secure/64 target=$(ARCH64)
710 link path=usr/ccs/lib/$(ARCH64)/libcurses.so \
711 target=../../../../lib/$(ARCH64)/libcurses.so.1
712 link path=usr/ccs/lib/$(ARCH64)/libform.so \
713 target=../../../../lib/$(ARCH64)/libform.so.1
714 link path=usr/ccs/lib/$(ARCH64)/libgen.so \
715 target=../../../../lib/$(ARCH64)/libgen.so.1
716 link path=usr/ccs/lib/$(ARCH64)/libl.so \
717 target=../../../../lib/$(ARCH64)/libl.so.1
718 link path=usr/ccs/lib/$(ARCH64)/libmalloc.so \
719 target=../../../../lib/$(ARCH64)/libmalloc.so.1
720 link path=usr/ccs/lib/$(ARCH64)/libmenu.so \
721 target=../../../../lib/$(ARCH64)/libmenu.so.1

```

```

722 link path=usr/ccs/lib/$(ARCH64)/libpanel.so \
723 target=../../../../lib/$(ARCH64)/libpanel.so.1
724 link path=usr/ccs/lib/$(ARCH64)/libtermcap.so \
725 target=../../../../lib/$(ARCH64)/libtermcap.so.1
726 link path=usr/ccs/lib/$(ARCH64)/libtermmlib.so \
727 target=../../../../lib/$(ARCH64)/libcurses.so.1
728 link path=usr/ccs/lib/$(ARCH64)/liby.so \
729 target=../../../../lib/$(ARCH64)/liby.so.1
730 link path=usr/ccs/lib/libcurses.so target=../../../../lib/libcurses.so.1
731 link path=usr/ccs/lib/libform.so target=../../../../lib/libform.so.1
732 link path=usr/ccs/lib/libgen.so target=../../../../lib/libgen.so.1
733 link path=usr/ccs/lib/libl.so target=../../../../lib/libl.so.1
734 link path=usr/ccs/lib/libmalloc.so target=../../../../lib/libmalloc.so.1
735 link path=usr/ccs/lib/libmenu.so target=../../../../lib/libmenu.so.1
736 link path=usr/ccs/lib/libpanel.so target=../../../../lib/libpanel.so.1
737 link path=usr/ccs/lib/libtermcap.so target=../../../../lib/libtermcap.so.1
738 link path=usr/ccs/lib/libtermmlib.so target=../../../../lib/libcurses.so.1
739 link path=usr/ccs/lib/liby.so target=../../../../lib/liby.so.1
740 link path=usr/lib/$(ARCH64)/libadm.so \
741 target=../../../../lib/$(ARCH64)/libadm.so.1
742 link path=usr/lib/$(ARCH64)/libadm.so.1 \
743 target=../../../../lib/$(ARCH64)/libadm.so.1
744 link path=usr/lib/$(ARCH64)/libadutils.so target=libadutils.so.1
745 link path=usr/lib/$(ARCH64)/libaio.so \
746 target=../../../../lib/$(ARCH64)/libaio.so.1
747 link path=usr/lib/$(ARCH64)/libaio.so.1 \
748 target=../../../../lib/$(ARCH64)/libaio.so.1
749 link path=usr/lib/$(ARCH64)/libavl.so.1 \
750 target=../../../../lib/$(ARCH64)/libavl.so.1
751 link path=usr/lib/$(ARCH64)/libbsdmalloc.so target=libbsdmalloc.so.1
752 link path=usr/lib/$(ARCH64)/libbsm.so \
753 target=../../../../lib/$(ARCH64)/libbsm.so.1
754 link path=usr/lib/$(ARCH64)/libbsm.so.1 \
755 target=../../../../lib/$(ARCH64)/libbsm.so.1
756 link path=usr/lib/$(ARCH64)/libc.so target=../../../../lib/$(ARCH64)/libc.so.1
757 link path=usr/lib/$(ARCH64)/libc.so.1 target=../../../../lib/$(ARCH64)/libc.so.1
758 link path=usr/lib/$(ARCH64)/libc_db.so \
759 target=../../../../lib/$(ARCH64)/libc_db.so.1
760 link path=usr/lib/$(ARCH64)/libc_db.so.1 \
761 target=../../../../lib/$(ARCH64)/libc_db.so.1
762 link path=usr/lib/$(ARCH64)/libcfgadm.so target=libcfgadm.so.1
763 link path=usr/lib/$(ARCH64)/libcmd.so target=libcmd.so.1
764 link path=usr/lib/$(ARCH64)/libcmdutils.so.1 \
765 target=../../../../lib/$(ARCH64)/libcmdutils.so.1
766 link path=usr/lib/$(ARCH64)/libcommutil.so target=libcommutil.so.1
767 link path=usr/lib/$(ARCH64)/libcontract.so \
768 target=../../../../lib/$(ARCH64)/libcontract.so.1
769 link path=usr/lib/$(ARCH64)/libcontract.so.1 \
770 target=../../../../lib/$(ARCH64)/libcontract.so.1
771 link path=usr/lib/$(ARCH64)/libcrypt.so target=libcrypt.so.1
772 link path=usr/lib/$(ARCH64)/libcrypt_d.so target=libcrypt.so
773 link path=usr/lib/$(ARCH64)/libcrypt_d.so.1 target=libcrypt.so.1
774 link path=usr/lib/$(ARCH64)/libcrypt_i.so target=libcrypt.so
775 link path=usr/lib/$(ARCH64)/libcrypt_i.so.1 target=libcrypt.so.1
776 link path=usr/lib/$(ARCH64)/libctf.so \
777 target=../../../../lib/$(ARCH64)/libctf.so.1
778 link path=usr/lib/$(ARCH64)/libctf.so.1 \
779 target=../../../../lib/$(ARCH64)/libctf.so.1
780 link path=usr/lib/$(ARCH64)/libcurses.so \
781 target=../../../../lib/$(ARCH64)/libcurses.so.1
782 link path=usr/lib/$(ARCH64)/libcurses.so.1 \
783 target=../../../../lib/$(ARCH64)/libcurses.so.1
784 link path=usr/lib/$(ARCH64)/libdevice.so \
785 target=../../../../lib/$(ARCH64)/libdevice.so.1
786 link path=usr/lib/$(ARCH64)/libdevice.so.1 \
787 target=../../../../lib/$(ARCH64)/libdevice.so.1

```

```

788 link path=usr/lib/$(ARCH64)/libdevid.so \
789   target=../../../../lib/$(ARCH64)/libdevid.so.1
790 link path=usr/lib/$(ARCH64)/libdevid.so.1 \
791   target=../../../../lib/$(ARCH64)/libdevid.so.1
792 link path=usr/lib/$(ARCH64)/libdevinfo.so \
793   target=../../../../lib/$(ARCH64)/libdevinfo.so.1
794 link path=usr/lib/$(ARCH64)/libdevinfo.so.1 \
795   target=../../../../lib/$(ARCH64)/libdevinfo.so.1
796 link path=usr/lib/$(ARCH64)/libdhcputil.so.1 \
797   target=../../../../lib/$(ARCH64)/libdhcputil.so.1
798 link path=usr/lib/$(ARCH64)/libdisasm.so target=libdisasm.so.1
799 link path=usr/lib/$(ARCH64)/libdl.so target=../../../../lib/$(ARCH64)/libdl.so.1
800 link path=usr/lib/$(ARCH64)/libdl.so.1 \
801   target=../../../../lib/$(ARCH64)/libdl.so.1
802 link path=usr/lib/$(ARCH64)/libdlpi.so \
803   target=../../../../lib/$(ARCH64)/libdlpi.so.1
804 link path=usr/lib/$(ARCH64)/libdlpi.so.1 \
805   target=../../../../lib/$(ARCH64)/libdlpi.so.1
806 link path=usr/lib/$(ARCH64)/libdoor.so \
807   target=../../../../lib/$(ARCH64)/libdoor.so.1
808 link path=usr/lib/$(ARCH64)/libdoor.so.1 \
809   target=../../../../lib/$(ARCH64)/libdoor.so.1
810 link path=usr/lib/$(ARCH64)/libefi.so \
811   target=../../../../lib/$(ARCH64)/libefi.so.1
812 link path=usr/lib/$(ARCH64)/libefi.so.1 \
813   target=../../../../lib/$(ARCH64)/libefi.so.1
814 link path=usr/lib/$(ARCH64)/libelf.so \
815   target=../../../../lib/$(ARCH64)/libelf.so.1
816 link path=usr/lib/$(ARCH64)/libelf.so.1 \
817   target=../../../../lib/$(ARCH64)/libelf.so.1
818 link path=usr/lib/$(ARCH64)/libexacct.so target=libexacct.so.1
819 $(i386_ONLY)link path=usr/lib/$(ARCH64)/libfdisk.so \
820   target=../../../../lib/$(ARCH64)/libfdisk.so.1
821 $(i386_ONLY)link path=usr/lib/$(ARCH64)/libfdisk.so.1 \
822   target=../../../../lib/$(ARCH64)/libfdisk.so.1
823 link path=usr/lib/$(ARCH64)/libform.so target=libform.so.1
824 link path=usr/lib/$(ARCH64)/libfstyp.so target=libfstyp.so.1
825 link path=usr/lib/$(ARCH64)/libgen.so \
826   target=../../../../lib/$(ARCH64)/libgen.so.1
827 link path=usr/lib/$(ARCH64)/libgen.so.1 \
828   target=../../../../lib/$(ARCH64)/libgen.so.1
829 link path=usr/lib/$(ARCH64)/libhotplug.so target=libhotplug.so.1
830 link path=usr/lib/$(ARCH64)/libidmap.so target=libidmap.so.1
831 link path=usr/lib/$(ARCH64)/libinetutil.so.1 \
832   target=../../../../lib/$(ARCH64)/libinetutil.so.1
833 link path=usr/lib/$(ARCH64)/libintl.so \
834   target=../../../../lib/$(ARCH64)/libintl.so.1
835 link path=usr/lib/$(ARCH64)/libintl.so.1 \
836   target=../../../../lib/$(ARCH64)/libintl.so.1
837 link path=usr/lib/$(ARCH64)/libipmi.so target=libipmi.so.1
838 link path=usr/lib/$(ARCH64)/libipp.so target=libipp.so.1
839 link path=usr/lib/$(ARCH64)/libkstat.so \
840   target=../../../../lib/$(ARCH64)/libkstat.so.1
841 link path=usr/lib/$(ARCH64)/libkstat.so.1 \
842   target=../../../../lib/$(ARCH64)/libkstat.so.1
843 link path=usr/lib/$(ARCH64)/libkvm.so target=libkvm.so.1
844 link path=usr/lib/$(ARCH64)/libl.so target=libl.so.1
845 link path=usr/lib/$(ARCH64)/libldap.so target=libldap.so.5
846 link path=usr/lib/$(ARCH64)/liblddbg.so.4 \
847   target=../../../../lib/$(ARCH64)/liblddbg.so.4
848 link path=usr/lib/$(ARCH64)/liblgrp.so target=liblgrp.so.1
849 link path=usr/lib/$(ARCH64)/liblm.so target=liblm.so.1
850 link path=usr/lib/$(ARCH64)/libmail.so target=libmail.so.1
851 link path=usr/lib/$(ARCH64)/libmalloc.so target=libmalloc.so.1
852 link path=usr/lib/$(ARCH64)/libmapmalloc.so target=libmapmalloc.so.1
853 link path=usr/lib/$(ARCH64)/libmd.so target=../../../../lib/$(ARCH64)/libmd.so.1

```

```

854 link path=usr/lib/$(ARCH64)/libmd.so.1 \
855   target=../../../../lib/$(ARCH64)/libmd.so.1
856 link path=usr/lib/$(ARCH64)/libmd5.so \
857   target=../../../../lib/$(ARCH64)/libmd5.so.1
858 link path=usr/lib/$(ARCH64)/libmd5.so.1 \
859   target=../../../../lib/$(ARCH64)/libmd5.so.1
860 link path=usr/lib/$(ARCH64)/libmenu.so target=libmenu.so.1
861 link path=usr/lib/$(ARCH64)/libmp.so target=../../../../lib/$(ARCH64)/libmp.so.2
862 link path=usr/lib/$(ARCH64)/libmp.so.2 \
863   target=../../../../lib/$(ARCH64)/libmp.so.2
864 link path=usr/lib/$(ARCH64)/libmtmalloc.so target=libmtmalloc.so.1
865 link path=usr/lib/$(ARCH64)/libnls.so target=libnls.so.1
866 link path=usr/lib/$(ARCH64)/libnsl.so \
867   target=../../../../lib/$(ARCH64)/libnsl.so.1
868 link path=usr/lib/$(ARCH64)/libnsl.so.1 \
869   target=../../../../lib/$(ARCH64)/libnsl.so.1
870 link path=usr/lib/$(ARCH64)/libnvpair.so \
871   target=../../../../lib/$(ARCH64)/libnvpair.so.1
872 link path=usr/lib/$(ARCH64)/libnvpair.so.1 \
873   target=../../../../lib/$(ARCH64)/libnvpair.so.1
874 link path=usr/lib/$(ARCH64)/libpam.so \
875   target=../../../../lib/$(ARCH64)/libpam.so.1
876 link path=usr/lib/$(ARCH64)/libpam.so.1 \
877   target=../../../../lib/$(ARCH64)/libpam.so.1
878 link path=usr/lib/$(ARCH64)/libpanel.so target=libpanel.so.1
879 link path=usr/lib/$(ARCH64)/libpkcs11.so target=libpkcs11.so.1
880 link path=usr/lib/$(ARCH64)/libposix4.so \
881   target=../../../../lib/$(ARCH64)/librt.so.1
882 link path=usr/lib/$(ARCH64)/libposix4.so.1 \
883   target=../../../../lib/$(ARCH64)/librt.so.1
884 link path=usr/lib/$(ARCH64)/libproc.so \
885   target=../../../../lib/$(ARCH64)/libproc.so.1
886 link path=usr/lib/$(ARCH64)/libproc.so.1 \
887   target=../../../../lib/$(ARCH64)/libproc.so.1
888 link path=usr/lib/$(ARCH64)/libproject.so target=libproject.so.1
889 link path=usr/lib/$(ARCH64)/libpthread.so \
890   target=../../../../lib/$(ARCH64)/libpthread.so.1
891 link path=usr/lib/$(ARCH64)/libpthread.so.1 \
892   target=../../../../lib/$(ARCH64)/libpthread.so.1
893 link path=usr/lib/$(ARCH64)/librcm.so \
894   target=../../../../lib/$(ARCH64)/librcm.so.1
895 link path=usr/lib/$(ARCH64)/librcm.so.1 \
896   target=../../../../lib/$(ARCH64)/librcm.so.1
897 link path=usr/lib/$(ARCH64)/libreparse.so target=libreparse.so.1
898 link path=usr/lib/$(ARCH64)/libresolv.so \
899   target=../../../../lib/$(ARCH64)/libresolv.so.2
900 link path=usr/lib/$(ARCH64)/libresolv.so.2 \
901   target=../../../../lib/$(ARCH64)/libresolv.so.2
902 $(i386_ONLY)link path=usr/lib/$(ARCH64)/librestart.so \
903   target=../../../../lib/$(ARCH64)/librestart.so.1
904 link path=usr/lib/$(ARCH64)/librestart.so.1 \
905   target=../../../../lib/$(ARCH64)/librestart.so.1
906 link path=usr/lib/$(ARCH64)/librpcsvc.so \
907   target=../../../../lib/$(ARCH64)/librpcsvc.so.1
908 link path=usr/lib/$(ARCH64)/librpcsvc.so.1 \
909   target=../../../../lib/$(ARCH64)/librpcsvc.so.1
910 link path=usr/lib/$(ARCH64)/librt.so target=../../../../lib/$(ARCH64)/librt.so.1
911 link path=usr/lib/$(ARCH64)/librt.so.1 \
912   target=../../../../lib/$(ARCH64)/librt.so.1
913 link path=usr/lib/$(ARCH64)/librtld.so.1 \
914   target=../../../../lib/$(ARCH64)/librtld.so.1
915 link path=usr/lib/$(ARCH64)/librtld_db.so \
916   target=../../../../lib/$(ARCH64)/librtld_db.so.1
917 link path=usr/lib/$(ARCH64)/librtld_db.so.1 \
918   target=../../../../lib/$(ARCH64)/librtld_db.so.1
919 link path=usr/lib/$(ARCH64)/libscf.so \

```

```

920 target=../../../../lib/$(ARCH64)/libscf.so.1
921 link path=usr/lib/$(ARCH64)/libscf.so.1 \
922 target=../../../../lib/$(ARCH64)/libscf.so.1
923 link path=usr/lib/$(ARCH64)/libsched.so target=libsched.so.1
924 link path=usr/lib/$(ARCH64)/libsctp.so target=libsctp.so.1
925 link path=usr/lib/$(ARCH64)/libsec.so \
926 target=../../../../lib/$(ARCH64)/libsec.so.1
927 link path=usr/lib/$(ARCH64)/libsec.so.1 \
928 target=../../../../lib/$(ARCH64)/libsec.so.1
929 link path=usr/lib/$(ARCH64)/libsecdb.so \
930 target=../../../../lib/$(ARCH64)/libsecdb.so.1
931 link path=usr/lib/$(ARCH64)/libsecdb.so.1 \
932 target=../../../../lib/$(ARCH64)/libsecdb.so.1
933 link path=usr/lib/$(ARCH64)/libsndfile.so \
934 target=../../../../lib/$(ARCH64)/libsndfile.so.1
935 link path=usr/lib/$(ARCH64)/libsndfile.so.1 \
936 target=../../../../lib/$(ARCH64)/libsndfile.so.1
937 link path=usr/lib/$(ARCH64)/libsip.so target=libsip.so.1
938 link path=usr/lib/$(ARCH64)/libsldap.so target=libsldap.so.1
939 link path=usr/lib/$(ARCH64)/libsmbios.so target=libsmbios.so.1
940 link path=usr/lib/$(ARCH64)/libsocket.so \
941 target=../../../../lib/$(ARCH64)/libsocket.so.1
942 link path=usr/lib/$(ARCH64)/libsocket.so.1 \
943 target=../../../../lib/$(ARCH64)/libsocket.so.1
944 link path=usr/lib/$(ARCH64)/libsoftcrypto.so target=libsoftcrypto.so.1
945 link path=usr/lib/$(ARCH64)/libsysevent.so \
946 target=../../../../lib/$(ARCH64)/libsysevent.so.1
947 link path=usr/lib/$(ARCH64)/libsysevent.so.1 \
948 target=../../../../lib/$(ARCH64)/libsysevent.so.1
949 link path=usr/lib/$(ARCH64)/libtermcap.so \
950 target=../../../../lib/$(ARCH64)/libtermcap.so.1
951 link path=usr/lib/$(ARCH64)/libtermcap.so.1 \
952 target=../../../../lib/$(ARCH64)/libtermcap.so.1
953 link path=usr/lib/$(ARCH64)/libtermplib.so \
954 target=../../../../lib/$(ARCH64)/libcurses.so.1
955 link path=usr/lib/$(ARCH64)/libtermplib.so.1 \
956 target=../../../../lib/$(ARCH64)/libcurses.so.1
957 link path=usr/lib/$(ARCH64)/libthread.so \
958 target=../../../../lib/$(ARCH64)/libthread.so.1
959 link path=usr/lib/$(ARCH64)/libthread.so.1 \
960 target=../../../../lib/$(ARCH64)/libthread.so.1
961 link path=usr/lib/$(ARCH64)/libthread_db.so \
962 target=../../../../lib/$(ARCH64)/libc_db.so.1
963 link path=usr/lib/$(ARCH64)/libthread_db.so.1 \
964 target=../../../../lib/$(ARCH64)/libc_db.so.1
965 link path=usr/lib/$(ARCH64)/libtsnet.so \
966 target=../../../../lib/$(ARCH64)/libtsnet.so.1
967 link path=usr/lib/$(ARCH64)/libtsnet.so.1 \
968 target=../../../../lib/$(ARCH64)/libtsnet.so.1
969 link path=usr/lib/$(ARCH64)/libtsol.so \
970 target=../../../../lib/$(ARCH64)/libtsol.so.2
971 link path=usr/lib/$(ARCH64)/libtsol.so.2 \
972 target=../../../../lib/$(ARCH64)/libtsol.so.2
973 link path=usr/lib/$(ARCH64)/libumem.so \
974 target=../../../../lib/$(ARCH64)/libumem.so.1
975 link path=usr/lib/$(ARCH64)/libumem.so.1 \
976 target=../../../../lib/$(ARCH64)/libumem.so.1
977 link path=usr/lib/$(ARCH64)/libuuid.so \
978 target=../../../../lib/$(ARCH64)/libuuid.so.1
979 link path=usr/lib/$(ARCH64)/libuuid.so.1 \
980 target=../../../../lib/$(ARCH64)/libuuid.so.1
981 $(i386_ONLY)link path=usr/lib/$(ARCH64)/libuutil.so \
982 target=../../../../lib/$(ARCH64)/libuutil.so.1
983 link path=usr/lib/$(ARCH64)/libuutil.so.1 \
984 target=../../../../lib/$(ARCH64)/libuutil.so.1
985 $(sparc_ONLY)link path=usr/lib/$(ARCH64)/libv12n.so target=libv12n.so.1

```

```

986 link path=usr/lib/$(ARCH64)/libvolmgt.so target=libvolmgt.so.1
987 link path=usr/lib/$(ARCH64)/libw.so target=../../../../lib/$(ARCH64)/libw.so.1
988 link path=usr/lib/$(ARCH64)/libw.so.1 target=../../../../lib/$(ARCH64)/libw.so.1
989 link path=usr/lib/$(ARCH64)/libxnet.so \
990 target=../../../../lib/$(ARCH64)/libxnet.so.1
991 link path=usr/lib/$(ARCH64)/libxnet.so.1 \
992 target=../../../../lib/$(ARCH64)/libxnet.so.1
993 link path=usr/lib/$(ARCH64)/liby.so target=liby.so.1
994 link path=usr/lib/$(ARCH64)/libzoneinfo.so target=libzoneinfo.so.1
995 link path=usr/lib/$(ARCH64)/nss_compat.so.1 \
996 target=../../../../lib/$(ARCH64)/nss_compat.so.1
997 link path=usr/lib/$(ARCH64)/nss_dns.so.1 \
998 target=../../../../lib/$(ARCH64)/nss_dns.so.1
999 link path=usr/lib/$(ARCH64)/nss_files.so.1 \
1000 target=../../../../lib/$(ARCH64)/nss_files.so.1
1001 link path=usr/lib/$(ARCH64)/nss_nis.so.1 \
1002 target=../../../../lib/$(ARCH64)/nss_nis.so.1
1003 link path=usr/lib/$(ARCH64)/nss_user.so.1 \
1004 target=../../../../lib/$(ARCH64)/nss_user.so.1
1005 link path=usr/lib/$(ARCH64)/straddr.so target=straddr.so.2
1006 link path=usr/lib/32 target=
1007 link path=usr/lib/64 target=$(ARCH64)
1008 link path=usr/lib/cfgadm/$(ARCH64)/ib.so target=ib.so.1
1009 link path=usr/lib/cfgadm/$(ARCH64)/pci.so target=pci.so.1
1010 $(i386_ONLY)link path=usr/lib/cfgadm/$(ARCH64)/sata.so target=sata.so.1
1011 link path=usr/lib/cfgadm/$(ARCH64)/scsi.so target=scsi.so.1
1012 link path=usr/lib/cfgadm/$(ARCH64)/shp.so target=shp.so.1
1013 link path=usr/lib/cfgadm/$(ARCH64)/usb.so target=usb.so.1
1014 link path=usr/lib/cfgadm/ib.so target=ib.so.1
1015 link path=usr/lib/cfgadm/pci.so target=pci.so.1
1016 $(i386_ONLY)link path=usr/lib/cfgadm/sata.so target=sata.so.1
1017 link path=usr/lib/cfgadm/scsi.so target=scsi.so.1
1018 link path=usr/lib/cfgadm/shp.so target=shp.so.1
1019 link path=usr/lib/cfgadm/usb.so target=usb.so.1
1020 link path=usr/lib/libadm.so target=../../../../lib/libadm.so.1
1021 link path=usr/lib/libadm.so.1 target=../../../../lib/libadm.so.1
1022 link path=usr/lib/libadutils.so target=libadutils.so.1
1023 link path=usr/lib/libaio.so target=../../../../lib/libaio.so.1
1024 link path=usr/lib/libaio.so.1 target=../../../../lib/libaio.so.1
1025 link path=usr/lib/libavl.so.1 target=../../../../lib/libavl.so.1
1026 link path=usr/lib/libbsdmalloc.so target=libbsdmalloc.so.1
1027 link path=usr/lib/libbsm.so target=../../../../lib/libbsm.so.1
1028 link path=usr/lib/libbsm.so.1 target=../../../../lib/libbsm.so.1
1029 link path=usr/lib/libc.so target=../../../../lib/libc.so.1
1030 link path=usr/lib/libc.so.1 target=../../../../lib/libc.so.1
1031 link path=usr/lib/libc_db.so target=../../../../lib/libc_db.so.1
1032 link path=usr/lib/libc_db.so.1 target=../../../../lib/libc_db.so.1
1033 link path=usr/lib/libcfgadm.so target=libcfgadm.so.1
1034 link path=usr/lib/libcmd.so target=libcmd.so.1
1035 link path=usr/lib/libcmdutils.so.1 target=../../../../lib/libcmdutils.so.1
1036 link path=usr/lib/libcommutil.so target=libcommutil.so.1
1037 link path=usr/lib/libcontract.so target=../../../../lib/libcontract.so.1
1038 link path=usr/lib/libcontract.so.1 target=../../../../lib/libcontract.so.1
1039 link path=usr/lib/libcrypt.so target=libcrypt.so.1
1040 link path=usr/lib/libcrypt_d.so target=libcrypt.so.1
1041 link path=usr/lib/libcrypt_d.so.1 target=libcrypt.so.1
1042 link path=usr/lib/libcrypt_i.so target=libcrypt.so.1
1043 link path=usr/lib/libcrypt_i.so.1 target=libcrypt.so.1
1044 link path=usr/lib/libctf.so target=../../../../lib/libctf.so.1
1045 link path=usr/lib/libctf.so.1 target=../../../../lib/libctf.so.1
1046 link path=usr/lib/libcurses.so target=../../../../lib/libcurses.so.1
1047 link path=usr/lib/libcurses.so.1 target=../../../../lib/libcurses.so.1
1048 link path=usr/lib/libdevice.so target=../../../../lib/libdevice.so.1
1049 link path=usr/lib/libdevice.so.1 target=../../../../lib/libdevice.so.1
1050 link path=usr/lib/libdevvid.so target=../../../../lib/libdevvid.so.1
1051 link path=usr/lib/libdevvid.so.1 target=../../../../lib/libdevvid.so.1

```



```

1052 link path=usr/lib/libdevinfo.so target=../lib/libdevinfo.so.1
1053 link path=usr/lib/libdevinfo.so.1 target=../lib/libdevinfo.so.1
1054 link path=usr/lib/libdhcpcagent.so.1 target=../lib/libdhcpcagent.so.1
1055 link path=usr/lib/libdhcputil.so.1 target=../lib/libdhcputil.so.1
1056 link path=usr/lib/libdisasm.so target=../lib/libdisasm.so.1
1057 link path=usr/lib/libdl.so target=../lib/libdl.so.1
1058 link path=usr/lib/libdl.so.1 target=../lib/libdl.so.1
1059 link path=usr/lib/libdldpi.so target=../lib/libdldpi.so.1
1060 link path=usr/lib/libdldpi.so.1 target=../lib/libdldpi.so.1
1061 link path=usr/lib/libdoor.so target=../lib/libdoor.so.1
1062 link path=usr/lib/libdoor.so.1 target=../lib/libdoor.so.1
1063 link path=usr/lib/libefi.so target=../lib/libefi.so.1
1064 link path=usr/lib/libefi.so.1 target=../lib/libefi.so.1
1065 link path=usr/lib/libelf.so target=../lib/libelf.so.1
1066 link path=usr/lib/libelf.so.1 target=../lib/libelf.so.1
1067 link path=usr/lib/libexecct.so target=../lib/libexecct.so.1
1068 $(i386_ONLY)link path=usr/lib/libfdisk.so target=../lib/libfdisk.so.1
1069 $(i386_ONLY)link path=usr/lib/libfdisk.so.1 target=../lib/libfdisk.so.1
1070 link path=usr/lib/libform.so target=../lib/libform.so.1
1071 link path=usr/lib/libfstyp.so target=../lib/libfstyp.so.1
1072 link path=usr/lib/libgen.so target=../lib/libgen.so.1
1073 link path=usr/lib/libgen.so.1 target=../lib/libgen.so.1
1074 link path=usr/lib/libhotplug.so target=../lib/libhotplug.so.1
1075 link path=usr/lib/libidmap.so target=../lib/libidmap.so.1
1076 link path=usr/lib/libinetutil.so.1 target=../lib/libinetutil.so.1
1077 link path=usr/lib/libintl.so target=../lib/libintl.so.1
1078 link path=usr/lib/libintl.so.1 target=../lib/libintl.so.1
1079 link path=usr/lib/libipmi.so target=../lib/libipmi.so.1
1080 link path=usr/lib/libipp.so target=../lib/libipp.so.1
1081 link path=usr/lib/libkstat.so target=../lib/libkstat.so.1
1082 link path=usr/lib/libkstat.so.1 target=../lib/libkstat.so.1
1083 link path=usr/lib/libkvm.so target=../lib/libkvm.so.1
1084 link path=usr/lib/libl.so target=../lib/libl.so.1
1085 link path=usr/lib/libldap.so target=../lib/libldap.so.5
1086 link path=usr/lib/liblddb.so.4 target=../lib/liblddb.so.4
1087 link path=usr/lib/liblgrp.so target=../lib/liblgrp.so.1
1088 link path=usr/lib/liblm.so target=../lib/liblm.so.1
1089 link path=usr/lib/libmail.so target=../lib/libmail.so.1
1090 link path=usr/lib/libmalloc.so target=../lib/libmalloc.so.1
1091 link path=usr/lib/libmapmalloc.so target=../lib/libmapmalloc.so.1
1092 link path=usr/lib/libmd.so target=../lib/libmd.so.1
1093 link path=usr/lib/libmd.so.1 target=../lib/libmd.so.1
1094 link path=usr/lib/libmd5.so target=../lib/libmd5.so.1
1095 link path=usr/lib/libmd5.so.1 target=../lib/libmd5.so.1
1096 link path=usr/lib/libmenu.so target=../lib/libmenu.so.1
1097 link path=usr/lib/libmp.so target=../lib/libmp.so.2
1098 link path=usr/lib/libmp.so.1 target=../lib/libmp.so.1
1099 link path=usr/lib/libmp.so.2 target=../lib/libmp.so.2
1100 link path=usr/lib/libmtmalloc.so target=../lib/libmtmalloc.so.1
1101 link path=usr/lib/libnls.so target=../lib/libnls.so.1
1102 link path=usr/lib/libnls1.so target=../lib/libnls1.so.1
1103 link path=usr/lib/libnls1.so.1 target=../lib/libnls1.so.1
1104 link path=usr/lib/libnvpair.so target=../lib/libnvpair.so.1
1105 link path=usr/lib/libnvpair.so.1 target=../lib/libnvpair.so.1
1106 link path=usr/lib/libpam.so target=../lib/libpam.so.1
1107 link path=usr/lib/libpam.so.1 target=../lib/libpam.so.1
1108 link path=usr/lib/libpanel.so target=../lib/libpanel.so.1
1109 link path=usr/lib/libpkcs11.so target=../lib/libpkcs11.so.1
1110 link path=usr/lib/libposix4.so target=../lib/librt.so.1
1111 link path=usr/lib/libposix4.so.1 target=../lib/librt.so.1
1112 link path=usr/lib/libproc.so target=../lib/libproc.so.1
1113 link path=usr/lib/libproc.so.1 target=../lib/libproc.so.1
1114 link path=usr/lib/libproject.so target=../lib/libproject.so.1
1115 link path=usr/lib/libpthread.so target=../lib/libpthread.so.1
1116 link path=usr/lib/libpthread.so.1 target=../lib/libpthread.so.1
1117 link path=usr/lib/librcm.so target=../lib/librcm.so.1

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1118 link path=usr/lib/librcm.so.1 target=../lib/librcm.so.1
1119 link path=usr/lib/libreparse.so target=../libreparse.so.1
1120 link path=usr/lib/libresolv.so target=../lib/libresolv.so.2
1121 link path=usr/lib/libresolv.so.1 target=../lib/libresolv.so.1
1122 link path=usr/lib/libresolv.so.2 target=../lib/libresolv.so.2
1123 link path=usr/lib/librestart.so.1 target=../lib/librestart.so.1
1124 link path=usr/lib/librpcsvc.so target=../lib/librpcsvc.so.1
1125 link path=usr/lib/librpcsvc.so.1 target=../lib/librpcsvc.so.1
1126 link path=usr/lib/librt.so target=../lib/librt.so.1
1127 link path=usr/lib/librt.so.1 target=../lib/librt.so.1
1128 link path=usr/lib/librtld.so.1 target=../lib/librtld.so.1
1129 link path=usr/lib/librtld_db.so target=../lib/librtld_db.so.1
1130 link path=usr/lib/librtld_db.so.1 target=../lib/librtld_db.so.1
1131 link path=usr/lib/libscf.so target=../lib/libscf.so.1
1132 link path=usr/lib/libscf.so.1 target=../lib/libscf.so.1
1133 link path=usr/lib/libsched.so target=../lib/libsched.so.1
1134 link path=usr/lib/libsectp.so target=../libsectp.so.1
1135 link path=usr/lib/libsec.so target=../lib/libsec.so.1
1136 link path=usr/lib/libsec.so.1 target=../lib/libsec.so.1
1137 link path=usr/lib/libsecdb.so target=../lib/libsecdb.so.1
1138 link path=usr/lib/libsecdb.so.1 target=../lib/libsecdb.so.1
1139 link path=usr/lib/libsendfile.so target=../lib/libsendfile.so.1
1140 link path=usr/lib/libsendfile.so.1 target=../lib/libsendfile.so.1
1141 link path=usr/lib/libsip.so target=../lib/libsip.so.1
1142 link path=usr/lib/libldap.so target=../lib/libldap.so.1
1143 link path=usr/lib/libmbios.so target=../lib/libmbios.so.1
1144 link path=usr/lib/libsocket.so target=../lib/libsocket.so.1
1145 link path=usr/lib/libsocket.so.1 target=../lib/libsocket.so.1
1146 link path=usr/lib/libsoftcrypto.so target=../lib/libsoftcrypto.so.1
1147 link path=usr/lib/libsys.so target=../lib/libsys.so.1
1148 link path=usr/lib/libsyssevent.so target=../lib/libsyssevent.so.1
1149 link path=usr/lib/libsyssevent.so.1 target=../lib/libsyssevent.so.1
1150 link path=usr/lib/libtermcap.so target=../lib/libtermcap.so.1
1151 link path=usr/lib/libtermcap.so.1 target=../lib/libtermcap.so.1
1152 link path=usr/lib/libtermmlib.so target=../lib/libtermmlib.so.1
1153 link path=usr/lib/libtermmlib.so.1 target=../lib/libtermmlib.so.1
1154 link path=usr/lib/libthread.so target=../lib/libthread.so.1
1155 link path=usr/lib/libthread.so.1 target=../lib/libthread.so.1
1156 link path=usr/lib/libthread_db.so target=../lib/libthread_db.so.1
1157 link path=usr/lib/libthread_db.so.1 target=../lib/libthread_db.so.1
1158 link path=usr/lib/libtsnet.so target=../lib/libtsnet.so.1
1159 link path=usr/lib/libtsnet.so.1 target=../lib/libtsnet.so.1
1160 link path=usr/lib/libtsol.so target=../lib/libtsol.so.2
1161 link path=usr/lib/libtsol.so.2 target=../lib/libtsol.so.2
1162 link path=usr/lib/libumem.so target=../lib/libumem.so.1
1163 link path=usr/lib/libumem.so.1 target=../lib/libumem.so.1
1164 link path=usr/lib/libuuid.so target=../lib/libuuid.so.1
1165 link path=usr/lib/libuuid.so.1 target=../lib/libuuid.so.1
1166 link path=usr/lib/libuutil.so.1 target=../lib/libuutil.so.1
1167 $(sparc_ONLY)link path=usr/lib/libv12n.so target=../lib/libv12n.so.1
1168 link path=usr/lib/libvolmgt.so target=../lib/libvolmgt.so.1
1169 link path=usr/lib/libw.so target=../lib/libw.so.1
1170 link path=usr/lib/libw.so.1 target=../lib/libw.so.1
1171 link path=usr/lib/libwrap.so target=../lib/libwrap.so.1.0
1172 link path=usr/lib/libwrap.so.1 target=../lib/libwrap.so.1.0
1173 link path=usr/lib/libxnet.so target=../lib/libxnet.so.1
1174 link path=usr/lib/libxnet.so.1 target=../lib/libxnet.so.1
1175 link path=usr/lib/liby.so target=../lib/liby.so.1
1176 link path=usr/lib/libzoneinfo.so target=../lib/libzoneinfo.so.1
1177 link path=usr/lib/lwp/$(ARCH64)/libthread.so.1 \
target=../lib/$(ARCH64)/libthread.so.1
1178
1179 link path=usr/lib/lwp/$(ARCH64)/libthread_db.so.1 \
target=../lib/$(ARCH64)/libthread_db.so.1
1180
1181 link path=usr/lib/lwp/32 target=../lib/lwp/32 target=../lib/lwp/32 target=../lib/lwp/32 target=../lib/lwp/32
1182 link path=usr/lib/lwp/64 target=../lib/lwp/64 target=../lib/lwp/64
1183 link path=usr/lib/lwp/libthread.so.1 target=../libthread.so.1

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1184 link path=usr/lib/lwp/libthread_db.so.1 target=../libthread_db.so.1
1185 link path=usr/lib/nss_compat.so.1 target=../lib/nss_compat.so.1
1186 link path=usr/lib/nss_dns.so.1 target=../lib/nss_dns.so.1
1187 link path=usr/lib/nss_files.so.1 target=../lib/nss_files.so.1
1188 link path=usr/lib/nss_nis.so.1 target=../lib/nss_nis.so.1
1189 link path=usr/lib/nss_user.so.1 target=../lib/nss_user.so.1
1190 link path=usr/lib/scsi/${ARCH64}/libscsi.so target=../libscsi.so.1
1191 link path=usr/lib/scsi/${ARCH64}/libsesc.so target=../libsesc.so.1
1192 link path=usr/lib/scsi/${ARCH64}/libsmp.so target=../libsmp.so.1
1193 link path=usr/lib/scsi/libscsi.so target=../libscsi.so.1
1194 link path=usr/lib/scsi/libses.so target=../libses.so.1
1195 link path=usr/lib/scsi/libsmpt.so target=../libsmpt.so.1
1196 link path=usr/lib/security/${ARCH64}/crypt_bsdbf.so target=../crypt_bsdbf.so.1
1197 link path=usr/lib/security/${ARCH64}/crypt_bsdmd5.so \
1198 target=../crypt_bsdmd5.so.1
1199 link path=usr/lib/security/${ARCH64}/crypt_sha256.so \
1200 target=../crypt_sha256.so.1
1201 link path=usr/lib/security/${ARCH64}/crypt_sha512.so \
1202 target=../crypt_sha512.so.1
1203 link path=usr/lib/security/${ARCH64}/crypt_sunmd5.so \
1204 target=../crypt_sunmd5.so.1
1205 link path=usr/lib/security/${ARCH64}/pam_allow.so target=../pam_allow.so.1
1206 link path=usr/lib/security/${ARCH64}/pam_authok_check.so \
1207 target=../pam_authok_check.so.1
1208 link path=usr/lib/security/${ARCH64}/pam_authok_get.so \
1209 target=../pam_authok_get.so.1
1210 link path=usr/lib/security/${ARCH64}/pam_authok_store.so \
1211 target=../pam_authok_store.so.1
1212 link path=usr/lib/security/${ARCH64}/pam_deny.so target=../pam_deny.so.1
1213 link path=usr/lib/security/${ARCH64}/pam_dhkeys.so target=../pam_dhkeys.so.1
1214 link path=usr/lib/security/${ARCH64}/pam_dial_auth.so \
1215 target=../pam_dial_auth.so.1
1216 link path=usr/lib/security/${ARCH64}/pam_ldap.so target=../pam_ldap.so.1
1217 link path=usr/lib/security/${ARCH64}/pam_list.so target=../pam_list.so.1
1218 link path=usr/lib/security/${ARCH64}/pam_passwd_auth.so \
1219 target=../pam_passwd_auth.so.1
1220 link path=usr/lib/security/${ARCH64}/pam_rhosts_auth.so \
1221 target=../pam_rhosts_auth.so.1
1222 link path=usr/lib/security/${ARCH64}/pam_roles.so target=../pam_roles.so.1
1223 link path=usr/lib/security/${ARCH64}/pam_sample.so target=../pam_sample.so.1
1224 link path=usr/lib/security/${ARCH64}/pam_tsol_account.so \
1225 target=../pam_tsol_account.so.1
1226 link path=usr/lib/security/${ARCH64}/pam_unix_account.so \
1227 target=../pam_unix_account.so.1
1228 link path=usr/lib/security/${ARCH64}/pam_unix_auth.so \
1229 target=../pam_unix_auth.so.1
1230 link path=usr/lib/security/${ARCH64}/pam_unix_cred.so \
1231 target=../pam_unix_cred.so.1
1232 link path=usr/lib/security/${ARCH64}/pam_unix_session.so \
1233 target=../pam_unix_session.so.1
1234 link path=usr/lib/security/${ARCH64}/pkcs11_kernel.so \
1235 target=../pkcs11_kernel.so.1
1236 link path=usr/lib/security/${ARCH64}/pkcs11_softtoken.so \
1237 target=../pkcs11_softtoken.so.1
1238 link path=usr/lib/security/${ARCH64}/pkcs11_tpm.so target=../pkcs11_tpm.so.1
1239 link path=usr/lib/security/64 target=${ARCH64}
1240 link path=usr/lib/security/audit_binfile.so target=../audit_binfile.so.1
1241 link path=usr/lib/security/audit_remote.so target=../audit_remote.so.1
1242 link path=usr/lib/security/audit_syslog.so target=../audit_syslog.so.1
1243 link path=usr/lib/security/crypt_bsdbf.so target=../crypt_bsdbf.so.1
1244 link path=usr/lib/security/crypt_bsdmd5.so target=../crypt_bsdmd5.so.1
1245 link path=usr/lib/security/crypt_sha256.so target=../crypt_sha256.so.1
1246 link path=usr/lib/security/crypt_sha512.so target=../crypt_sha512.so.1
1247 link path=usr/lib/security/crypt_sunmd5.so target=../crypt_sunmd5.so.1
1248 link path=usr/lib/security/pam_allow.so target=../pam_allow.so.1
1249 link path=usr/lib/security/pam_authok_check.so \

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1250 target=../pam_authok_check.so.1
1251 link path=usr/lib/security/pam_authok_get.so target=../pam_authok_get.so.1
1252 link path=usr/lib/security/pam_authok_store.so \
1253 target=../pam_authok_store.so.1
1254 link path=usr/lib/security/pam_deny.so target=../pam_deny.so.1
1255 link path=usr/lib/security/pam_dhkeys.so target=../pam_dhkeys.so.1
1256 link path=usr/lib/security/pam_dial_auth.so target=../pam_dial_auth.so.1
1257 link path=usr/lib/security/pam_ldap.so target=../pam_ldap.so.1
1258 link path=usr/lib/security/pam_list.so target=../pam_list.so.1
1259 link path=usr/lib/security/pam_passwd_auth.so target=../pam_passwd_auth.so.1
1260 link path=usr/lib/security/pam_rhosts_auth.so target=../pam_rhosts_auth.so.1
1261 link path=usr/lib/security/pam_roles.so target=../pam_roles.so.1
1262 link path=usr/lib/security/pam_sample.so target=../pam_sample.so.1
1263 link path=usr/lib/security/pam_tsol_account.so target=../pam_tsol_account.so.1
1264 link path=usr/lib/security/pam_unix_account.so target=../pam_unix_account.so.1
1265 link path=usr/lib/security/pam_unix_auth.so target=../pam_unix_auth.so.1
1266 link path=usr/lib/security/pam_unix_cred.so target=../pam_unix_cred.so.1
1267 link path=usr/lib/security/pam_unix_session.so target=../pam_unix_session.so.1
1268 link path=usr/lib/security/pkcs11_kernel.so target=../pkcs11_kernel.so.1
1269 link path=usr/lib/security/pkcs11_softtoken.so target=../pkcs11_softtoken.so.1
1270 link path=usr/lib/security/pkcs11_tpm.so target=../pkcs11_tpm.so.1
1271 link path=usr/lib/straddr.so target=../straddr.so.2
1272 link path=usr/xpg4/lib/${ARCH64}/libcurses.so target=libcurses.so.2
1273 link path=usr/xpg4/lib/64 target=${ARCH64}
1274 link path=usr/xpg4/lib/libcurses.so target=../libcurses.so.2
1275 #
1276 # libses.so needs to dlopen(3C) plugins from usr/lib/scsi/plugins/ses/vendor/,
1277 # a dependency which cannot be automatically derived
1278 #
1279 depend fmri=system/library/storage/scsi-plugins type=require

```