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*********************************************************
   27616 Mon Mar  4 20:43:26 2013
new/exception_lists/packaging
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
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Reviewed by: Robert Mustacchi <rm@joyent.com>
*********************************************************
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  28 #
  29 # Exception List for validate_pkg
  30 #

  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/libkcfd.so
  54 lib/llib-lelfsign
  55 lib/llib-lelfsign.ln
  56 lib/llib-lkcfd
  57 lib/llib-lkcfd.ln
  58 usr/include/libelfsign.h
```

```
  59 usr/lib/llib-lsoftcrypto
  60 usr/lib/llib-lsoftcrypto.ln
  61 usr/lib/amd64/llib-lsoftcrypto.ln       i386
  62 usr/lib/sparcv9/llib-lsoftcrypto.ln     sparc

  64 #
  65 # The following files are used by the DHCP service, the
  66 # standalone's DHCP implementation, and the kernel (nfs_dlboot).
  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/llib-ldhcpsvc
  76 usr/lib/llib-ldhcpsvc.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/llib-lipadm
 120 lib/llib-lipadm.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
128 # library contains exclusively private interfaces, as does
129 # libipsecutil.  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/libipsecutil.so
138 usr/lib/amd64/libipsecutil.so              i386
139 usr/lib/sparcv9/libipsecutil.so            sparc
140 usr/lib/llib-like
141 usr/lib/llib-like.ln
142 usr/lib/amd64/llib-like.ln                 i386
143 usr/lib/sparcv9/llib-like.ln               sparc
144 usr/lib/llib-lipsecutil
145 usr/lib/llib-lipsecutil.ln
146 usr/lib/amd64/llib-lipsecutil.ln           i386
147 usr/lib/sparcv9/llib-lipsecutil.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/libnwam_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/ipsecah.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 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/llib-lproc
194 lib/llib-lproc.ln
195 lib/amd64/llib-lproc.ln             i386
196 lib/sparcv9/llib-lproc.ln           sparc
197 usr/include/libproc.h
198 #
199 # Private interfaces for libdisasm
200 #
201 usr/include/libdisasm.h
202 usr/lib/llib-ldisasm
203 usr/lib/llib-ldisasm.ln
204 usr/lib/amd64/llib-ldisasm.ln       i386
205 usr/lib/sparcv9/llib-ldisasm.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/llib-lraidcfg
215 usr/lib/llib-lraidcfg.ln
216 usr/lib/amd64/llib-lraidcfg.ln      i386
217 usr/lib/sparcv9/llib-lraidcfg.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 libdhcpagent
226 # and libdhcputil for the benefit of DHCP-related networking commands such
227 # as dhcpagent, dhcpinfo, ifconfig, and netstat.  These are not interfaces
228 # for customer use, so the files are excluded from packaging.
229 #
230 lib/libdhcpagent.so
231 lib/libdhcputil.so
232 lib/amd64/libdhcputil.so            i386
233 lib/sparcv9/libdhcputil.so          sparc
234 lib/llib-ldhcpagent
235 lib/llib-ldhcpagent.ln
236 lib/llib-ldhcputil
237 lib/llib-ldhcputil.ln
238 lib/amd64/llib-ldhcputil.ln         i386
239 lib/sparcv9/llib-ldhcputil.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/libdhcpagent.so
249 usr/lib/libdhcputil.so
250 usr/lib/amd64/libdhcputil.so        i386
251 usr/lib/sparcv9/libdhcputil.so      sparc
252 usr/lib/llib-ldhcpagent
253 usr/lib/llib-ldhcpagent.ln
254 usr/lib/llib-ldhcputil
255 usr/lib/llib-ldhcputil.ln
256 usr/lib/amd64/llib-ldhcputil.ln     i386
```

```
257 usr/lib/sparcv9/llib-ldhcputil.ln         sparc
258 #
259 # These files are installed in the proto area by the build of libinstzones
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
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 efcode 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 # Simnet
380 #
381 usr/include/net/simnet.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
 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
 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
 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_diskmgt.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 #
 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
 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/smbsrv/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_cck_common.h
 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 smbsrv. Do not ship.
 757 #
 758 usr/include/smb
 759 usr/include/smbsrv
 760 #
 761 # Private/Internal dtrace scripts of smbsrv. Do not ship.
 762 #
 763 usr/lib/smbsrv/dtrace
 764 #
 765 # Private/Internal (lint) libraries of smbsrv. Do not ship.
 766 #
 767 usr/lib/reparse/llib-lreparse_smb
 768 usr/lib/reparse/llib-lreparse_smb.ln
 769 usr/lib/smbsrv/llib-lmlrpc
 770 usr/lib/smbsrv/llib-lmlrpc.ln
 771 usr/lib/smbsrv/llib-lmlsvc
 772 usr/lib/smbsrv/llib-lmlsvc.ln
 773 usr/lib/smbsrv/llib-lsmb
 774 usr/lib/smbsrv/llib-lsmb.ln
 775 usr/lib/smbsrv/llib-lsmbns
 776 usr/lib/smbsrv/llib-lsmbns.ln
 777 #
 778 #
 779 # Private/Internal 64-bit libraries of smbsrv. Do not ship.
 780 #
 781 usr/lib/smbsrv/amd64                             i386
 782 usr/lib/smbsrv/sparcv9                           sparc
 
 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
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 vscan 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/libsmbfs.so
819 usr/lib/amd64/libsmbfs.so                 i386
820 usr/lib/sparcv9/libsmbfs.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
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 */
```

```
**********************************************************
    1038 Mon Mar  4 20:43:27 2013
new/usr/src/cmd/mdb/intel/amd64/Makefile.kmdb
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  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_O)

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

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

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  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
  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 lintkctl**

  80 **lint: lintkmdb lintprom lintkctl**
  81   **$(LINT) $(ALLLINTFLAGS) $(KMDBOBJS:%.o=%.ln) $(PROMOBJS:%.o=%.ln)**

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

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

  89 **lintkctl: $(KCTLOBJS:%.o=%.ln)**
  90   **$(LINT) $(ALLLINTFLAGS) $(KCTLOBJS:%.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)**

```
*********************************************************
    1369 Mon Mar  4 20:43:29 2013
new/usr/src/cmd/mdb/intel/amd64/mdb/Makefile
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
*********************************************************
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  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
```

```
  50 CPPFLAGS += -I../../mdb
  51 LDLIBS += -lsaveargs
  59 CPPFLAGS += -I$(SRC)/common/saveargs

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

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    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   librsm   \
    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   libsmbios   \

```
125        libtecla          \
126        libumem           \
127        libnvpair       .WAIT   \
128        libexacct         \
129        libsasl           \
130        libldap5          \
131        libsldap        .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        libsmbfs          \
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        libdevid          \
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          \
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        libsmedia         \
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          libgrubmgmt      \
258          smbsrv           \
259          libilb           \
260          scsi             \
261          libima           \
262          libsun_ima       \
263          mpapi            \
264          librstp          \
265          libreparse       \
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          librsc           \
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 DCSUBDIRS =             \
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      \
325          libipsecutil     \
326          libdiskmgt       \
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          libsasl          \
346          libldap5         \
347          libsecdb         \
348          libshare         \
349          libshell         \
350          libsldap         \
351          libslp           \
352          libsmbfs         \
353          libsmedia        \
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          libreparse
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         libcommputil    \
 389         libcontract     \
 390         libcpc          \
 391         libctf          \
 392         libcurses       \
 393         libtermcap      \
 394         libcryptoutil   \
 395         libdevice       \
 396         libdevid        \
 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         libppp          \
 440         libproc         \
 441         libraidcfg      \
 442         librcm          \
 443         librdc          \
 444         libscf          \
 445         libsip          \
 446         libsmbios       \
 447         librestart      \
 448         librpcsvc       \
 449         librsm          \
 450         librstp         \
 451         libsasl         \
 452         libsec          \
 453         libshell        \
```

```
 388         libcommputil    \
 389         libcontract     \
 390         libcpc          \
 391         libctf          \
 392         libcurses       \
 393         libtermcap      \
 394         libcryptoutil   \
 395         libdevice       \
 396         libdevid        \
 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         libppp          \
 440         libproc         \
 441         libraidcfg      \
 442         librcm          \
 443         librdc          \
 444         libscf          \
 445         libsip          \
 446         libsmbios       \
 447         librestart      \
 448         librpcsvc       \
 449         librsm          \
 450         librstp         \
 451         libsasl         \
 452         libsec          \
 453         libshell        \
```

```
 454         libslp          \
 455         libsmedia       \
 456         libsocket       \
 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         libgrubmgmt     \
 499         smbsrv          \
 500         libilb          \
 501         scsi            \
 502         hbaapi          \
 503         smhba           \
 504         libima          \
 505         libsun_ima      \
 506         mpapi           \
 507         libreparse      \
 508         $($(MACH)_HDRSUBDIRS)

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

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

 518 sparc_HDRSUBDIRS=       \
```

```
   519           libds           \
   520           libdscp         \
   521           libpri          \
   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 libdevid:       libdevinfo
   581 libdevinfo:     libnvpair libsec
   582 libdhcpagent:   libsocket libdhcputil libuuid libdlpi libcontract
   583 libdhcpsvc:     libinetutil
   584 libdhcputil:    libnsl libgen libinetutil libdlpi
```

```
   585 libdladm:       libdevinfo libinetutil libsocket libscf librcm libnvpair \
   586                 libexacct 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 libdhcpagent \
   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:  libipsecutil libxnet libcryptoutil
   606 libinetutil:    libsocket
   607 libipsecutil:   libtecla libsocket
   608 libinstzones:   libzonecfg libcontract
   609 libpkg:         libwanboot libscf libadm
   610 libnwam:        libscf
   611 libsecdb:       libnsl
   612 libsasl:        libgss libsocket pkcs11 libmd
   613 sasl_plugins:   pkcs11 libgss libsocket libsasl
   614 libsctp:        libsocket
   615 libshell:       libast libcmd libdll libsocket libsecdb
   616 libsip:         libmd5
   617 libsmbfs:       libcmdutils libsocket libnsl libkrb5
   618 libsocket:      libnsl
   619 libstmfproxy:   libstmf libsocket libnsl libpthread
   620 libsum:         libast
   621 libsysevent:    libsecdb
   622 libldap5:       libsasl libsocket libnsl libmd
   623 libsldap:       libldap5 libtsol libnsl libc libscf libresolv
   624 libpool:        libnvpair libexacct
   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 libsaveargs
   626 libproc:        ../cmd/sgs/librtld_db ../cmd/sgs/libelf libctf
   629 libproject:     libpool libproc libsecdb
   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 libsmbios libnsl
   638 libinetsvc:     libscf
   639 librestart:     libuutil libscf
   640 libsaveargs:    libdisasm
   641 #endif /* ! coderview */
   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:         libdevid 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 libfsmgt libsecdb libumem libsmbfs
 655 libexacct/demo: libexacct libproject libsocket libnsl
 656 libtsalarm:     libpcp
 657 smbsrv:         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:
```

```
*********************************************************
   2389 Mon Mar  4 20:43:29 2013
new/usr/src/lib/libdisasm/common/libdisasm.h
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  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 diassembler 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);
  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_INVALFLAG         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 */
```

```
**********************************************************
    1507 Mon Mar  4 20:43:30 2013
new/usr/src/lib/libdisasm/common/mapfile-vers
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  23 #

  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 #

  39 $mapfile_version 2

  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 Mon Mar  4 20:43:30 2013
new/usr/src/lib/libdisasm/i386/dis_i386.c
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  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 */
```

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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
  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 dissassembly mode (I.e. DIS_SPARC_V8, DIS_SPARC_V9, etc.).
  73 *
  74 * If the dissassembled 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_INVALFLAG);
 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) ? "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 */
```

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    27 VERS = .1

    29 CMNOBJS =   \
    30   P32ton.o   \
    31   Pcontrol.o   \
    32   Pcore.o   \
    33   Pexecname.o   \
    34   Pfdinfo.o   \
    35   Pgcore.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_SAVEOBJS = *
    78   *saveargs.o*

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

    82 *SAVEOBJS = $($(MACH64)_SAVEOBJS)*

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

    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 $@ $<

```
118            $(POST_PROCESS_O)

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

****
**   1141 Mon Mar 4 20:43:31 2013**
new/usr/src/lib/libproc/amd64/Makefile
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
****
```
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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)
```

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    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 */

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  26 #
  27 # The build process for libsaveargs is sightly 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 #

  33 LIBRARY=   libsaveargs.a
  34 STANDLIBRARY=   libstandsaveargs.so
  35 VERS=   .1

  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

  42 COMDIR= $(SRC)/lib/libsaveargs/common

  44 OBJECTS_common_amd64   = saveargs.o
  45 SRCS_common_amd64   = $(OBJECTS_common_amd64:%.o=../amd64/%.c)

  47 OBJECTS= $(OBJECTS_common_$(MACH)) $(OBJECTS_common_$(MACH64)) $(OBJECTS_common_

  49 include $(SRC)/lib/Makefile.lib

  51 SRCS= $(SRCS_common_$(MACH)) $(SRCS_common_$(MACH64)) $(SRC_common_common)

  53 #
  54 # Used to verify that the standalone doesn't have any unexpected external
  55 # dependencies.
  56 #
  57 LINKTEST_OBJ = objs/linktest_stand.o

  59 CLOBBERFILES_standalone = $(LINKTEST_OBJ)
  60 CLOBBERFILES += $(CLOBBERFILES_$(CURTYPE))

  62 LIBS_standalone = $(STANDLIBRARY)
  63 LIBS_library = $(DYNLIB) $(LINTLIB)
  64 LIBS = $(LIBS_$(CURTYPE))

  66 MAPFILES = $(COMDIR)/mapfile-vers

  68 LDLIBS +=   -lc -ldisasm

  70 LDFLAGS_standalone = $(ZNOVERSION) $(BREDUCE) -dy -r
  71 LDFLAGS = $(LDFLAGS_$(CURTYPE))

  73 ASFLAGS_standalone = -DDIS_STANDALONE
  74 ASFLAGS_library =
  75 ASFLAGS += -P $(ASFLAGS_$(CURTYPE)) -D_ASM

  77 $(LINTLIB) := SRCS = $(COMDIR)/$(LINTSRC)

  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=

  86 CPPFLAGS_standalone = -DDIS_STANDALONE
  87 CPPFLAGS_library = -D_REENTRANT
  88 CPPFLAGS +=   -I$(COMDIR) $(CPPFLAGS_$(CURTYPE))

  90 CFLAGS_standalone = $(STAND_FLAGS_32)
  91 CFLAGS_common =
  92 CFLAGS += $(CFLAGS_$(CURTYPE)) $(CFLAGS_common)

  94 CFLAGS64_standalone = $(STAND_FLAGS_64)
  95 CFLAGS64 += $(CCVERBOSE) $(CFLAGS64_$(CURTYPE)) $(CFLAGS64_common)

  97 DYNFLAGS += $(ZINTERPOSE)

  99 .KEEP_STATE:
 100 #endif /* ! codereview */

```
*********************************************************
    2209 Mon Mar  4 20:43:32 2013
new/usr/src/lib/libsaveargs/Makefile.targ
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  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 #

  33 install: $(TYPES:%=install.%)

  35 all: $(TYPES:%=all.%)

  37 $(TYPES:%=all.%):
  38         @CURTYPE=$(@:all.%=%) $(MAKE) $@.targ

  40 $(TYPES:%=install.%):
  41         @CURTYPE=$(@:install.%=%) $(MAKE) $@.targ

  43 install.library.targ: all.library $(INSTALL_DEPS_library)
  44 install.standalone.targ: all.standalone $(INSTALL_DEPS_standalone)

  46 all.library.targ: $(LIBS)
  47 all.standalone.targ: $(STANDLIBRARY)

  49 lint: $(TYPES:%=lint.%)

  51 $(TYPES:%=lint.%):
  52         @CURTYPE=$(@:lint.%=%) $(MAKE) lintcheck

  54 $(STANDLIBRARY): $(OBJS) $(LINKTEST_OBJ)
  55         $(LD) $(BREDUCE) $(ZDEFS) $(LDFLAGS) -o $@.linktest $(OBJS) $(LINKTEST_O
  56         rm $@.linktest
  57         $(LD) $(LDFLAGS) -o $@ $(OBJS)
```

```
  59 clobber: $(TYPES:%=clobber.%)

  61 $(TYPES:%=clobber.%):
  62         @CURTYPE=$(@:clobber.%=%) $(MAKE) clobber.targ

  64 clobber.targ: clean
  65         -$(RM) $(CLOBBERTARGFILES)

  67 # include library targets
  68 include $(SRC)/lib/Makefile.targ

  70 $(PICS): pics
  71 $(OBJS): objs

  73 objs/%.o pics/%.o: $(COMDIR)/%.c
  74         $(COMPILE.c) -o $@ $<
  75         $(POST_PROCESS_O)

  77 # install rule for lint library target
  78 $(ROOTLINTDIR)/%: $(COMDIR)/%
  79         $(INS.file)

  81 #endif /* ! codereview */
```

```
*********************************************************
    1114 Mon Mar  4 20:43:33 2013
new/usr/src/lib/libsaveargs/amd64/Makefile
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  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 */
```

```
*********************************************************
    8803 Mon Mar  4 20:43:33 2013
new/usr/src/lib/libsaveargs/amd64/saveargs.c
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  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   -->  | %rbp   |
  36  *                        +--------+
  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))
124 #define INSTR4(ins, off)                \
125         (ins[(off)] + (ins[(off) + 1] << 8) + (ins[(off + 2)] << 16) + \
126         (ins[(off) + 3] << 24))

128 /*
129  * Sun Studio 10 patch implementation saves %rdi first;
130  * GCC 3.4.3 Sun branch implementation saves them in reverse order.
131  */
132 static const uint32_t save_instr[INSTR_ARRAY_SIZE] = {
133         0xf87d8948,     /* movq %rdi, -0x8(%rbp) */
134         0xf0758948,     /* movq %rsi, -0x10(%rbp) */
135         0xe8558948,     /* movq %rdx, -0x18(%rbp) */
136         0xe04d8948,     /* movq %rcx, -0x20(%rbp) */
137         0xd845894c,     /* movq %r8, -0x28(%rbp) */
138         0xd04d894c      /* movq %r9, -0x30(%rbp) */
139 };

141 static const uint16_t save_instr_push[] = {
142         0x57,   /* pushq %rdi */
143         0x56,   /* pushq %rsi */
144         0x52,   /* pushq %rdx */
145         0x51,   /* pushq %rcx */
146         0x5041, /* pushq %r8 */
147         0x5141  /* pushq %r9 */
148 };

150 /*
151  * If the return type of a function is a structure greater than 16 bytes in
152  * size, %rdi will contain the address to which it should be stored, and
153  * arguments will begin at %rsi.  Studio will push all of the normal argument
154  * registers anyway, GCC will start pushing at %rsi, so we need a separate
155  * pattern.
156  */
157 static const uint32_t save_instr_sr[INSTR_ARRAY_SIZE-1] = {
158         0xf8758948,     /* movq %rsi,-0x8(%rbp) */
159         0xf0558948,     /* movq %rdx,-0x10(%rbp) */
160         0xe84d8948,     /* movq %rcx,-0x18(%rbp) */
161         0xe045894c,     /* movq %r8,-0x20(%rbp) */
162         0xd84d894c      /* movq %r9,-0x28(%rbp) */
163 };

165 static const uint8_t save_fp_pushes[] = {
166         0x55,   /* pushq %rbp */
167         0xcc    /* int $0x3 */
168 };
169 #define NUM_FP_PUSHES (sizeof (save_fp_pushes) / sizeof (save_fp_pushes[0]))

171 static const uint32_t save_fp_movs[] = {
172         0x00e58948,     /* movq %rsp,%rbp, encoding 1 */
173         0x00ec8b48,     /* movq %rsp,%rbp, encoding 2 */
174 };
175 #define NUM_FP_MOVS (sizeof (save_fp_movs) / sizeof (save_fp_movs[0]))

177 typedef struct {
178         uint8_t *data;
179         size_t size;
180 } text_t;

182 static int
183 do_read(void *data, uint64_t addr, void *buf, size_t len)
184 {
185         text_t  *t = data;
```

```
187         if (addr >= t->size)
188                 return (-1);

190         len = MIN(len, t->size - addr);

192         (void) memcpy(buf, (char *)t->data + addr, len);

194         return (len);
195 }

197 /* ARGSUSED */
198 int
199 do_lookup(void *data, uint64_t addr, char *buf, size_t buflen, uint64_t *start,
200     size_t *symlen)
201 {
202         /* We don't actually need lookup info */
203         return (-1);
204 }

206 #endif /* ! codereview */
207 static int
208 instr_size(dis_handle_t *dhp, uint8_t *ins, unsigned int i, size_t size)
209 {
210         text_t  t;

212         t.data = ins;
213         t.size = size;

215         dis_set_data(dhp, &t);
216         return (dis_instrlen(dhp, i));
217 }

219 static boolean_t
220 has_saved_fp(dis_handle_t *dhp, uint8_t *ins, int size)
111 has_saved_fp(uint8_t *ins, int size)
221 {
222         int             i, j;
223         uint32_t        n;
224         boolean_t       found_push = B_FALSE;
225         int             sz = 0;

227         for (i = 0; i < size; i += sz) {
228                 if ((sz = instr_size(dhp, ins, i, size)) < 1)
229                         return (B_FALSE);

231                 if (found_push == B_FALSE) {
232                         if (sz != 1)
233                                 continue;
115         int found_push = 0;

117         for (i = 0; i < size; i++) {
118                 if (found_push == 0) {
235                         n = INSTR1(ins, i);
236                         for (j = 0; j <= NUM_FP_PUSHES; j++)
237                                 if (save_fp_pushes[j] == n) {
238                                         found_push = B_TRUE;
122                                 found_push = 1;
239                                         break;
240                                 }
241                 } else {
242                         if (sz != 3)
243                                 continue;
244 #endif /* ! codereview */
245                         n = INSTR3(ins, i);
246                         for (j = 0; j <= NUM_FP_MOVS; j++)
247                                 if (save_fp_movs[j] == n)
```

```
248                                       return (B_TRUE);
126                                       return (1);
249                               }
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.
140                * Compare against Sun Studio implementation
282                */
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_
```

```
*********************************************************
     590 Mon Mar  4 20:43:33 2013
new/usr/src/lib/libsaveargs/common/linktest_stand.c
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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   9   * http://www.illumos.org/license/CDDL.
  10   */

  12  /* Copyright 2013, Richard Lowe */

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

```
*********************************************************
     508 Mon Mar  4 20:43:34 2013
new/usr/src/lib/libsaveargs/common/llib-lsaveargs
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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   9   * http://www.illumos.org/license/CDDL.
  10   */

  12  /* Copyright 2013, Richard Lowe. */

  14  /* LINTLIBRARY */
  15  /* PROTOLIB1 */

  17  #include <saveargs.h>
  18  #endif /* ! codereview */
```

```
*********************************************************
     883 Mon Mar  4 20:43:34 2013
new/usr/src/lib/libsaveargs/common/mapfile-vers
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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  10 #

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  14 #
  15 # MAPFILE HEADER START
  16 #
  17 # WARNING:  STOP NOW.  DO NOT MODIFY THIS FILE.
  18 # Object versioning must comply with the rules detailed in
  19 #
  20 #       usr/src/lib/README.mapfiles
  21 #
  22 # You should not be making modifications here until you've read the most current
  23 # copy of that file. If you need help, contact a gatekeeper for guidance.
  24 #
  25 # MAPFILE HEADER END
  26 #

  28 $mapfile_version 2

  30 SYMBOL_VERSION ILLUMOSprivate {
  31         global:
  32                 saveargs_has_args;
  33         local:
  34                 *;
  35 };
  36 #endif /* ! codereview */
```

```
*********************************************************
     347 Mon Mar  4 20:43:34 2013
new/usr/src/lib/libsaveargs/tests/README
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
*********************************************************
   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 */
```

```
*********************************************************
     764 Mon Mar  4 20:43:35 2013
new/usr/src/lib/libsaveargs/tests/dump/Makefile
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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   9 # http://www.illumos.org/license/CDDL.
  10 #

  12 #
  13 # Copyright 2012, Richard Lowe.
  14 #

  16 include $(SRC)/Makefile.master
  17 include $(SRC)/Makefile.master.64

  19 .KEEP_STATE:

  21 OBJECTS = dump.o
  22 PROG = dump

  24 CFLAGS += -m64

  26 LDLIBS64 += -lctf -lelf -lsaveargs

  28 C99MODE = $(C99_ENABLE)

  30 $(PROG): $(OBJECTS)
  31         $(LINK.c) -o $@ $(OBJECTS) $(LDLIBS64)
  32 clean:
  33         $(RM) $(OBJECTS) $(PROG)

  35 clobber: clean

  37 all: $(PROG)

  39 install: all
  40 #endif /* ! codereview */
```

```
*********************************************************
    4214 Mon Mar  4 20:43:35 2013
new/usr/src/lib/libsaveargs/tests/dump/dump.c
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
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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  */

 22 /*
 23  * Copyright (c) 2011, Joyent, Inc. All rights reserved.
 24  * Copyright (c) 2011, Robert Mustacchi, Inc. All rights reserved.
 25  * Copyright 2013, Richard Lowe.
 26  */

 28 #include <err.h>
 29 #include <fcntl.h>
 30 #include <gelf.h>
 31 #include <libctf.h>
 32 #include <saveargs.h>
 33 #include <stdarg.h>
 34 #include <stdio.h>
 35 #include <stdlib.h>
 36 #include <strings.h>
 37 #include <unistd.h>

 39 extern const char *__progname;

 41 typedef struct symtab_sym {
 42         GElf_Sym ss_sym;
 43         char *ss_name;
 44         ctf_funcinfo_t ss_finfo;
 45         uint8_t *ss_data;
 46         size_t ss_size;
 47 } symtab_sym_t;

 49 static void
 50 walk_symtab(Elf *elf, char *fname, ctf_file_t *fp,
 51     void (*callback)(ctf_file_t *, symtab_sym_t *))
 52 {
 53         Elf_Scn *stab = NULL;
 54         Elf_Scn *text = NULL;
 55         Elf_Data *stabdata = NULL;
 56         Elf_Data *textdata = NULL;
 57         GElf_Ehdr ehdr;
 58         GElf_Shdr stabshdr;
```

```
 59         GElf_Shdr textshdr;
 60         int foundtext = 0, foundstab = 0;
 61         symtab_sym_t ss;

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

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

 70                 if (stabshdr.sh_type == SHT_SYMTAB) {
 71                         foundstab = 1;
 72                         break;
 73                 }
 74         }

 76         while ((text = elf_nextscn(elf, text)) != NULL) {
 77                 (void) gelf_getshdr(text, &textshdr);

 79                 if (strcmp(".text", elf_strptr(elf,
 80                     ehdr.e_shstrndx, (size_t)textshdr.sh_name)) == 0) {
 81                         foundtext = 1;
 82                         break;
 83                 }
 84         }

 86         if (!foundstab || !foundtext)
 87                 return;

 89         stabdata = elf_getdata(stab, NULL);
 90         textdata = elf_rawdata(text,  NULL);
 91         for (unsigned symdx = 0;
 92             symdx < (stabshdr.sh_size / stabshdr.sh_entsize);
 93             symdx++) {
 94                 (void) gelf_getsym(stabdata, symdx, &ss.ss_sym);

 96                 if ((GELF_ST_TYPE(ss.ss_sym.st_info) != STT_FUNC) ||
 97                     (ss.ss_sym.st_shndx == SHN_UNDEF))
 98                         continue;

100                 ss.ss_name = elf_strptr(elf, stabshdr.sh_link,
101                     ss.ss_sym.st_name);
102                 ss.ss_data = ((uint8_t *)(textdata->d_buf)) +
103                     (ss.ss_sym.st_value - textshdr.sh_addr);

105                 if (ctf_func_info(fp, symdx, &ss.ss_finfo) == CTF_ERR) {
106                         fprintf(stderr, "failed to get funcinfo for: %s\n",
107                             ss.ss_name);
108                         continue;
109                 }

111                 (void) callback(fp, &ss);
112         }
113 }

115 void
116 check_sym(ctf_file_t *ctfp, symtab_sym_t *ss)
117 {
118         int rettype = ctf_type_kind(ctfp, ss->ss_finfo.ctc_return);
119         int start_index = 0;

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

124         if (((rettype == CTF_K_STRUCT) || (rettype == CTF_K_UNION)) &&
```

```
125                ctf_type_size(ctfp, ss->ss_finfo.ctc_return) > 16)
126                        start_index = 1;

128        if (saveargs_has_args(ss->ss_data, ss->ss_sym.st_size,
129            ss->ss_finfo.ctc_argc, start_index) != SAVEARGS_NO_ARGS)
130                printf("%s has %d saved args\n", ss->ss_name,
131                    ss->ss_finfo.ctc_argc);
132 }

134 int
135 main(int argc, char **argv)
136 {
137        Elf             *elf;
138        ctf_file_t      *ctfp;
139        int errp, fd;

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

144        if (elf_version(EV_CURRENT) == EV_NONE)
145                errx(1, "mismatched libelf versions\n");

147        if (argc != 2)
148                errx(2, "usage: %s <file>\n", __progname);

150        if ((ctfp = ctf_open(argv[1], &errp)) == NULL)
151                errx(1, "failed to ctf_open file: %s: %s\n", argv[1],
152                    ctf_errmsg(errp));

154        if ((fd = open(argv[1], O_RDONLY)) == -1)
155                errx(1, "could not open %s\n", argv[1]);

157        if ((elf = elf_begin(fd, ELF_C_READ, NULL)) == NULL)
158                errx(1, "could not interpret ELF from %s\n",
159                    argv[1]);

161        walk_symtab(elf, argv[1], ctfp, check_sym);

163        (void) elf_end(elf);
164        (void) close(fd);

166        return (0);
167 }
168 #endif /* ! codereview */
```

****
**   767 Mon Mar 4 20:43:37 2013**
new/usr/src/lib/libsaveargs/tests/testmatch/Makefile
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
****

```
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  12 #

  14 #
  15 # Copyright 2012, Richard Lowe.
  16 #

  18 include $(SRC)/Makefile.master
  19 include $(SRC)/Makefile.master.64

  21 .KEEP_STATE:

  23 OBJECTS = testmatch.o data.o
   1 OBJECTS = testmatch.o saveargs.o data.o
  24 PROG = testmatch

  26 LDLIBS64 += -lsaveargs

   4 CPPFLAGS += -I$(SRC)/common/saveargs
  28 ASFLAGS += -P
  29 AS_CPPFLAGS += -D_ASM

   8 %.o: $(SRC)/common/saveargs/%.c
   9         $(COMPILE.c) -o $@ $<

  31 $(PROG): $(OBJECTS)
  32         $(LINK.c) -o $@ $(OBJECTS) $(LDLIBS64)
  12         $(LINK.c) -o $@ $(OBJECTS) -lc

  34 clean:
  35         $(RM) $(OBJECTS) $(PROG)

  37 clobber: clean

  39 all: $(PROG)

  41 install: all
```

```
*********************************************************
    10515 Mon Mar  4 20:43:37 2013
new/usr/src/lib/libsaveargs/tests/testmatch/data.s
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
*********************************************************
_____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)

  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_

 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(av1394_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(av1394_ic_bitreverse, av1394_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 Mon Mar  4 20:43:38 2013
new/usr/src/lib/libsaveargs/tests/testmatch/testmatch.c
3544 save-args matcher could be considerably more robust
3545 save-args matcher should accept saves may be out-of-order
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Reviewed by: Robert Mustacchi <rm@joyent.com>
*******************************************************
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   6  *
   7  * A full copy of the text of the CDDL should have accompanied this
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   9  * http://www.illumos.org/license/CDDL.
  10  */

  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)                                 \
  27     if (saveargs_has_args(name, SIZE_OF(name), argc, 0) != 0)   \
  29                 printf("Pass: %s\n", #name);                    \
  30         else                                                    \
  31                 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)                                 \
  33     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) != 0)   \
  47                 printf("Pass: %s\n", #name);                    \
  48         else                                                    \
  49                 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)                                   \
  39     if (saveargs_has_args(name, SIZE_OF(name), argc, 0) == 0)   \
  54                 printf("Pass: %s\n", #name);                    \
  55         else                                                    \
```

```
  56                 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)                                   \
  45     if (saveargs_has_args(name, SIZE_OF(name), argc, 1) == 0)   \
  68                 printf("Pass: %s\n", #name);                    \
  69         else                                                    \
  70                 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(av1394_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(av1394_ic_bitreverse, 1);
 130         TEST_GOOD(dtrace_instrumented, 4);
 131         TEST_GOOD_GSTRUCT(big_struct_ret_w_float, 1);
  52         TEST_GOOD_STRUCT(big_struct_ret_w_float, 1);
 132         TEST_BAD(no_fp, 5);

 134         TEST_GOOD(gcc_mov_align, 5);
 135         TEST_GOOD(gcc_push_align, 5);
 136         TEST_GOOD(ss_mov_align, 5);

 138         TEST_GOOD(gcc_mov_basic, 4);
 139         TEST_GOOD(gcc_push_basic, 4);
 140         TEST_GOOD(ss_mov_basic, 4);

 142         TEST_GOOD(gcc_mov_noorder, 4);
 143         TEST_GOOD(gcc_push_noorder, 4);

 145         TEST_GOOD_GSTRUCT(gcc_mov_big_struct_ret, 4);
 146         TEST_GOOD_GSTRUCT(gcc_push_big_struct_ret, 4);
  63         TEST_GOOD_STRUCT(gcc_mov_big_struct_ret, 4);
  64         TEST_GOOD_STRUCT(gcc_push_big_struct_ret, 4);
 147         TEST_GOOD_STRUCT(ss_mov_big_struct_ret, 4);

 149         TEST_GOOD_GSTRUCT(gcc_mov_struct_noorder, 4);
 150         TEST_GOOD_GSTRUCT(gcc_push_struct_noorder, 4);

 152         TEST_GOOD_GSTRUCT(gcc_mov_big_struct_ret_and_spill, 8);
 153         TEST_GOOD_GSTRUCT(gcc_push_big_struct_ret_and_spill, 8);
  67         TEST_GOOD_STRUCT(gcc_mov_big_struct_ret_and_spill, 8);
  68         TEST_GOOD_STRUCT(gcc_push_big_struct_ret_and_spill, 8);
 154         TEST_GOOD_STRUCT(ss_mov_big_struct_ret_and_spill, 8);

 156         TEST_GOOD(gcc_mov_small_struct_ret, 4);
 157         TEST_GOOD(gcc_push_small_struct_ret, 4);
 158         TEST_GOOD(ss_mov_small_struct_ret, 4);

 160         TEST_GOOD(gcc_mov_small_struct_ret_and_spill, 8);
 161         TEST_GOOD(gcc_push_small_struct_ret_and_spill, 8);
 162         TEST_GOOD(ss_mov_small_struct_ret_and_spill, 8);

 164         TEST_GOOD(gcc_mov_stack_spill, 8);
 165         TEST_GOOD(gcc_push_stack_spill, 8);
 166         TEST_GOOD(ss_mov_stack_spill, 8);

 168         TEST_BAD(big_struct_arg_by_value, 2);
 169         TEST_BAD(small_struct_arg_by_value, 2);

 171         TEST_BAD(small_struct_ret_w_float, 1);

 173         TEST_GOOD(interleaved_argument_saves, 4);

 175 #endif /* ! codereview */
 176         return (0);
 177 }
```

```
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 26 #

 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.man3commputil.inc>
 34 <include system-library.man3contract.inc>
 35 <include system-library.man3curses.inc>
 36 <include system-library.man3devid.inc>
 37 <include system-library.man3devinfo.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/man3commputil
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)/libdevid.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/$(ARCH64)/libkmfberder.so.1
196 file path=lib/$(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/libdevid.so.1
```

```
 257 file path=lib/libdevinfo.so.1
 258 file path=lib/libdhcpagent.so.1
 259 file path=lib/libdhcputil.so.1
 260 file path=lib/libdl.so.1
 261 file path=lib/libdladm.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 $(i386_ONLY)file path=lib/libfdisk.so.1
 268 file path=lib/libgen.so.1
 269 file path=lib/libinetutil.so.1
 270 file path=lib/libintl.so.1
 271 file path=lib/libipadm.so.1
 272 file path=lib/libipmp.so.1
 273 file path=lib/libkcfd.so.1
 274 file path=lib/libkmf.so.1
 275 file path=lib/libkmfberder.so.1
 276 file path=lib/libkstat.so.1
 277 file path=lib/libld.so.4
 278 file path=lib/liblddbg.so.4
 279 file path=lib/libmd.so.1
 280 file path=lib/libmd5.so.1
 281 file path=lib/libmp.so.1
 282 file path=lib/libmp.so.2
 283 file path=lib/libnsl.so.1
 284 file path=lib/libnvpair.so.1
 285 file path=lib/libnwam.so.1
 286 file path=lib/libpam.so.1
 287 file path=lib/libproc.so.1
 288 file path=lib/libpthread.so.1
 289 file path=lib/librcm.so.1
 290 file path=lib/libresolv.so.1
 291 file path=lib/libresolv.so.2
 292 file path=lib/librestart.so.1
 293 file path=lib/librpcsvc.so.1
 294 file path=lib/librt.so.1
 295 file path=lib/librtld.so.1
 296 file path=lib/librtld_db.so.1
 297 file path=lib/libscf.so.1
 298 file path=lib/libsec.so.1
 299 file path=lib/libsecdb.so.1
 300 file path=lib/libsendfile.so.1
 301 file path=lib/libsocket.so.1
 302 file path=lib/libsysevent.so.1
 303 file path=lib/libtermcap.so.1
 304 file path=lib/libthread.so.1
 305 file path=lib/libtsnet.so.1
 306 file path=lib/libtsol.so.2
 307 file path=lib/libumem.so.1
 308 file path=lib/libuuid.so.1
 309 file path=lib/libuutil.so.1
 310 file path=lib/libw.so.1
 311 file path=lib/libxnet.so.1
 312 file path=lib/mpxio/stmsboot_util mode=0555
 313 file path=lib/nss_compat.so.1
 314 file path=lib/nss_dns.so.1
 315 file path=lib/nss_files.so.1
 316 file path=lib/nss_nis.so.1
 317 file path=lib/nss_user.so.1
 318 file path=usr/lib/$(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)/libreparse.so.1
 354 $(i386_ONLY)file path=usr/lib/$(ARCH64)/libsaveargs.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/$(ARCH64)/libsldap.so.1
 361 file path=usr/lib/$(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_hwcap2.so.1 reboot-needed=true
393 $(i386_ONLY)file path=usr/lib/libc/libc_hwcap3.so.1 reboot-needed=true
394 file path=usr/lib/libcfgadm.so.1
395 file path=usr/lib/libcmd.so.1
396 file path=usr/lib/libcommputil.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/libreparse.so.1
427 file path=usr/lib/libsched.so.1
428 file path=usr/lib/libsctp.so.1
429 file path=usr/lib/libshell.so.1
430 file path=usr/lib/libsip.so.1
431 file path=usr/lib/libsldap.so.1
432 file path=usr/lib/libsmbios.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/$(ARCH64)/uscsi.so
456 file path=usr/lib/scsi/plugins/scsi/engines/uscsi.so
457 file path=usr/lib/scsi/plugins/ses/framework/$(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_bsdbf.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_authtok_check.so.1
472 file path=usr/lib/security/$(ARCH64)/pam_authtok_get.so.1
473 file path=usr/lib/security/$(ARCH64)/pam_authtok_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_bsdbf.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_authtok_check.so.1
501 file path=usr/lib/security/pam_authtok_get.so.1
502 file path=usr/lib/security/pam_authtok_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=SUNWcsl \
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/authtok_check/THIRDPARTYLICENSE \
579     license=usr/src/lib/pam_modules/authtok_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.unicode \
585     license=usr/src/uts/common/sys/THIRDPARTYLICENSE.unicode
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)/libdevid.so target=libdevid.so.1
597 link path=lib/$(ARCH64)/libdevinfo.so target=libdevinfo.so.1
598 link path=lib/$(ARCH64)/libdl.so target=libdl.so.1
599 link path=lib/$(ARCH64)/libdladm.so target=libdladm.so.1
600 link path=lib/$(ARCH64)/libdlpi.so target=libdlpi.so.1
601 link path=lib/$(ARCH64)/libdoor.so target=libdoor.so.1
602 link path=lib/$(ARCH64)/libefi.so target=libefi.so.1
603 link path=lib/$(ARCH64)/libelf.so target=libelf.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)/libkmfberder.so target=libkmfberder.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/$(ARCH64)/libsendfile.so target=libsendfile.so.1
630 link path=lib/$(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/$(ARCH64)/libtermlib.so target=libtermlib.so.1
634 link path=lib/$(ARCH64)/libtermlib.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/libdevid.so target=libdevid.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/libdladm.so target=libdladm.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/libnwam.so target=libnwam.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/librpcsvc.so target=librpcsvc.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/libtermlib.so target=libtermlib.so.1
699 link path=lib/libtermlib.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)/libtermlib.so \
727     target=../../../../lib/$(ARCH64)/libcurses.so.1
728 link path=usr/ccs/lib/$(ARCH64)/liby.so \
729     target=../../../lib/$(ARCH64)/liby.so.1
730 link path=usr/ccs/lib/libcurses.so target=../../../lib/libcurses.so.1
731 link path=usr/ccs/lib/libform.so target=../../lib/libform.so.1
732 link path=usr/ccs/lib/libgen.so target=../../../lib/libgen.so.1
733 link path=usr/ccs/lib/libl.so target=../../lib/libl.so.1
734 link path=usr/ccs/lib/libmalloc.so target=../../lib/libmalloc.so.1
735 link path=usr/ccs/lib/libmenu.so target=../../lib/libmenu.so.1
736 link path=usr/ccs/lib/libpanel.so target=../../lib/libpanel.so.1
737 link path=usr/ccs/lib/libtermcap.so target=../../../lib/libtermcap.so.1
738 link path=usr/ccs/lib/libtermlib.so target=../../../lib/libcurses.so.1
739 link path=usr/ccs/lib/liby.so target=../../lib/liby.so.1
740 link path=usr/lib/$(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/$(ARCH64)/libavl.so \
750     target=../../../lib/$(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)/libcommputil.so target=libcommputil.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/$(ARCH64)/libsendfile.so \
 934     target=../../../lib/$(ARCH64)/libsendfile.so.1
 935 link path=usr/lib/$(ARCH64)/libsendfile.so.1 \
 936     target=../../../lib/$(ARCH64)/libsendfile.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/$(ARCH64)/libtermlib.so \
 954     target=../../../lib/$(ARCH64)/libcurses.so.1
 955 link path=usr/lib/$(ARCH64)/libtermlib.so.1 \
 956     target=../../../lib/$(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/libcommputil.so target=./libcommputil.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
1041 link path=usr/lib/libcrypt_d.so.1 target=./libcrypt.so.1
1042 link path=usr/lib/libcrypt_i.so target=./libcrypt.so
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/libdevid.so target=../../lib/libdevid.so.1
1051 link path=usr/lib/libdevid.so.1 target=../../lib/libdevid.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/libdhcpagent.so.1 target=../../lib/libdhcpagent.so.1
1055 link path=usr/lib/libdhcputil.so.1 target=../../lib/libdhcputil.so.1
1056 link path=usr/lib/libdisasm.so target=./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/libdlpi.so target=../../lib/libdlpi.so.1
1060 link path=usr/lib/libdlpi.so.1 target=../../lib/libdlpi.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/libexacct.so target=./libexacct.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=./libform.so.1
1071 link path=usr/lib/libfstyp.so target=./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=./libhotplug.so.1
1075 link path=usr/lib/libidmap.so target=./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=./libipmi.so.1
1080 link path=usr/lib/libipp.so target=./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=./libkvm.so.1
1084 link path=usr/lib/libl.so target=./libl.so.1
1085 link path=usr/lib/libldap.so target=libldap.so.5
1086 link path=usr/lib/liblddbg.so.4 target=../../lib/liblddbg.so.4
1087 link path=usr/lib/liblgrp.so target=./liblgrp.so.1
1088 link path=usr/lib/liblm.so target=./liblm.so.1
1089 link path=usr/lib/libmail.so target=./libmail.so.1
1090 link path=usr/lib/libmalloc.so target=./libmalloc.so.1
1091 link path=usr/lib/libmapmalloc.so target=./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=./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=./libmtmalloc.so.1
1101 link path=usr/lib/libnls.so target=./libnls.so.1
1102 link path=usr/lib/libnsl.so target=../../lib/libnsl.so.1
1103 link path=usr/lib/libnsl.so.1 target=../../lib/libnsl.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=./libpanel.so.1
1109 link path=usr/lib/libpkcs11.so target=./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=./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
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=./libsched.so.1
1134 link path=usr/lib/libsctp.so target=./libsctp.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=./libsip.so.1
1142 link path=usr/lib/libsldap.so target=libsldap.so.1
1143 link path=usr/lib/libsmbios.so target=libsmbios.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=./libsoftcrypto.so.1
1147 link path=usr/lib/libsys.so target=./libsys.so.1
1148 link path=usr/lib/libsysevent.so target=../../lib/libsysevent.so.1
1149 link path=usr/lib/libsysevent.so.1 target=../../lib/libsysevent.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/libtermlib.so target=../../lib/libcurses.so.1
1153 link path=usr/lib/libtermlib.so.1 target=../../lib/libcurses.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/libc_db.so.1
1157 link path=usr/lib/libthread_db.so.1 target=../../lib/libc_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 $(sparc_ONLY)link path=usr/lib/libv12n.so target=./libv12n.so.1
1168 link path=usr/lib/libvolmgt.so target=./libvolmgt.so.1
1169 link path=usr/lib/libw.so target=../../lib/libw.so.1
1170 link path=usr/lib/libw.so.1 target=../../lib/libw.so.1
1171 link path=usr/lib/libwrap.so target=libwrap.so.1.0
1172 link path=usr/lib/libwrap.so.1 target=libwrap.so.1.0
1173 link path=usr/lib/libxnet.so target=../../lib/libxnet.so.1
1174 link path=usr/lib/libxnet.so.1 target=../../lib/libxnet.so.1
1175 link path=usr/lib/liby.so target=./liby.so.1
1176 link path=usr/lib/libzoneinfo.so target=./libzoneinfo.so.1
1177 link path=usr/lib/lwp/$(ARCH64)/libthread.so.1 \
1178     target=../../$(ARCH64)/libthread.so.1
1179 link path=usr/lib/lwp/$(ARCH64)/libthread_db.so.1 \
1180     target=../../$(ARCH64)/libthread_db.so.1
```

```
1181 link path=usr/lib/lwp/32 target=.
1182 link path=usr/lib/lwp/64 target=$(ARCH64)
1183 link path=usr/lib/lwp/libthread.so.1 target=../libthread.so.1
1184 link path=usr/lib/lwp/libthread_db.so.1 target=../libthread_db.so.1
1185 link path=usr/lib/nss_compat.so.1 target=../../lib/nss_compat.so.1
1186 link path=usr/lib/nss_dns.so.1 target=../../lib/nss_dns.so.1
1187 link path=usr/lib/nss_files.so.1 target=../../lib/nss_files.so.1
1188 link path=usr/lib/nss_nis.so.1 target=../../lib/nss_nis.so.1
1189 link path=usr/lib/nss_user.so.1 target=../../lib/nss_user.so.1
1190 link path=usr/lib/scsi/$(ARCH64)/libscsi.so target=./libscsi.so.1
1191 link path=usr/lib/scsi/$(ARCH64)/libses.so target=./libses.so.1
1192 link path=usr/lib/scsi/$(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/libsmp.so target=./libsmp.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/$(ARCH64)/pam_authtok_check.so \
1207     target=./pam_authtok_check.so.1
1208 link path=usr/lib/security/$(ARCH64)/pam_authtok_get.so \
1209     target=./pam_authtok_get.so.1
1210 link path=usr/lib/security/$(ARCH64)/pam_authtok_store.so \
1211     target=./pam_authtok_store.so.1
1212 link path=usr/lib/security/$(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_authtok_check.so \
1250     target=./pam_authtok_check.so.1
1251 link path=usr/lib/security/pam_authtok_get.so target=./pam_authtok_get.so.1
1252 link path=usr/lib/security/pam_authtok_store.so \
1253     target=./pam_authtok_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
```