

new/usr/src/Targetdirs

1

```

*****
68780 Sat Jun 30 22:01:37 2012
new/usr/src/Targetdirs
2947 split up and ship pam.d/*, adjust Makefiles
*****
1 # CDDL HEADER START
2 #
3 # The contents of this file are subject to the terms of the
4 # Common Development and Distribution License (the "License").
5 # You may not use this file except in compliance with the License.
6 #
7 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
8 # or http://www.opensolaris.org/os/licensing.
9 # See the License for the specific language governing permissions
10 # and limitations under the License.
11 #
12 # When distributing Covered Code, include this CDDL HEADER in each
13 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
14 # If applicable, add the following below this CDDL HEADER, with the
15 # fields enclosed by brackets "[]" replaced with your own identifying
16 # information: Portions Copyright [yyyy] [name of copyright owner]
17 #
18 # CDDL HEADER END
19 #
20 #
21 #
22 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
23 # Copyright 2011, Richard Lowe
24 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
25 #
26 #
27 #
28 # It is easier to think in terms of directory names without the ROOT macro
29 # prefix. ROOTDIRS is TARGETDIRS with ROOT prefixes. It is necessary
30 # to work with ROOT prefixes when controlling conditional assignments.
31 #
32 #
33 DIRLINKS=      $(SYM.DIRS)
34 $(BUILD64)    DIRLINKS += $(SYM.DIRS64)
35 #
36 FILELINKS= $(SYM.USRCCSLIB) $(SYM.USRLIB)
37 $(BUILD64)    FILELINKS += $(SYM.USRCCSLIB64) $(SYM.USRLIB64)
38 #
39 TARGETDIRS=   $(DIRS)
40 $(BUILD64)    TARGETDIRS += $(DIRS64)
41 #
42 TARGETDIRS    += $(FILELINKS) $(DIRLINKS)
43 #
44 i386_DIRS=    \
45 /boot/acpi    \
46 /boot/acpi/tables \
47 /boot/grub    \
48 /boot/grub/bin \
49 /platform/i86pc \
50 /usr/lib/xen   \
51 /usr/lib/xen/bin
52 #
53 sparc_DIRS=   \
54 /usr/lib/ldoms
55 #
56 # EXPORT DELETE START
57 XDIRS= \
58 /usr/lib/inet/wanboot
59 # EXPORT DELETE END
60 #
61 sparc_64ONLY= $(POUND_SIGN)

```

new/usr/src/Targetdirs

2

```

62 64ONLY= $(MACH)_64ONLY)
63 #
64 $(64ONLY) MACH32_DIRS=/usr/ucb/$(MACH32)
65 #
66 DIRS= \
67 /boot \
68 /boot/solaris \
69 /boot/solaris/bin \
70 $(MACH_DIRS) \
71 /dev \
72 /dev/dsk \
73 /dev/fd \
74 /dev/ipnet \
75 /dev/net \
76 /dev/rdisk \
77 /dev/rmt \
78 /dev/pts \
79 /dev/sad \
80 /dev/swap \
81 /dev/term \
82 /dev/vt \
83 /dev/zcons \
84 /devices \
85 /devices/pseudo \
86 /etc \
87 /etc/brand \
88 /etc/brand/solaris10 \
89 /etc/certs \
90 /etc/certs/CA \
91 /etc/openssl/certs/ \
92 /etc/cron.d \
93 /etc/crypto \
94 /etc/crypto/certs \
95 /etc/crypto/crls \
96 /etc/dbus-1 \
97 /etc/dbus-1/system.d \
98 /etc/default \
99 /etc/devices \
100 /etc/dev \
101 /etc/dfs \
102 /etc/dladm \
103 /etc/fs \
104 /etc/fs/nfs \
105 /etc/fs/zfs \
106 /etc/ftpd \
107 /etc/hal \
108 /etc/hal/fdi \
109 /etc/hal/fdi/information \
110 /etc/hal/fdi/information/10freedesktop \
111 /etc/hal/fdi/information/20thirdparty \
112 /etc/hal/fdi/information/30user \
113 /etc/hal/fdi/policy \
114 /etc/hal/fdi/policy/10osvender \
115 /etc/hal/fdi/policy/20thirdparty \
116 /etc/hal/fdi/policy/30user \
117 /etc/hal/fdi/preprobe \
118 /etc/hal/fdi/preprobe/10osvender \
119 /etc/hal/fdi/preprobe/20thirdparty \
120 /etc/hal/fdi/preprobe/30user \
121 /etc/ipadm \
122 /etc/iscsi \
123 /etc/rpcsec \
124 /etc/security \
125 /etc/security/auth_attr.d \
126 /etc/security/exec_attr.d \
127 /etc/security/prof_attr.d \

```

new/usr/src/Targetdirs

3

```

128 /etc/security/tsol \
129 /etc/gss \
130 /etc/pam.d \
131 /etc/init.d \
132 /etc/dhpc \
133 /etc/lib \
134 /etc/mail \
135 /etc/mail/cf \
136 /etc/mail/cf/cf \
137 /etc/mail/cf/domain \
138 /etc/mail/cf/feature \
139 /etc/mail/cf/m4 \
140 /etc/mail/cf/mailler \
141 /etc/mail/cf/ostype \
142 /etc/mail/cf/sh \
143 /etc/net-snmp \
144 /etc/net-snmp/snmp \
145 /etc/opt \
146 /etc/rc0.d \
147 /etc/rc1.d \
148 /etc/rc2.d \
149 /etc/rc3.d \
150 /etc/rcS.d \
151 /etc/saf \
152 /etc/sasl \
153 /etc/sfw \
154 /etc/svc \
155 /etc/svc/profile \
156 /etc/svc/profile/site \
157 /etc/svc/volatile \
158 /etc/tm \
159 /etc/usb \
160 /etc/user_attr.d \
161 /etc/zfs \
162 /etc/zones \
163 /export \
164 /home \
165 /lib \
166 /lib/crypto \
167 /lib/inet \
168 /lib/fm \
169 /lib/secure \
170 /lib/svc \
171 /lib/svc/bin \
172 /lib/svc/capture \
173 /lib/svc/manifest \
174 /lib/svc/manifest/milestone \
175 /lib/svc/manifest/device \
176 /lib/svc/manifest/system \
177 /lib/svc/manifest/system/device \
178 /lib/svc/manifest/system/filesystem \
179 /lib/svc/manifest/system/security \
180 /lib/svc/manifest/system/svc \
181 /lib/svc/manifest/network \
182 /lib/svc/manifest/network/dns \
183 /lib/svc/manifest/network/ipsec \
184 /lib/svc/manifest/network/ldap \
185 /lib/svc/manifest/network/nfs \
186 /lib/svc/manifest/network/nis \
187 /lib/svc/manifest/network/rpc \
188 /lib/svc/manifest/network/security \
189 /lib/svc/manifest/network/shares \
190 /lib/svc/manifest/network/ssl \
191 /lib/svc/manifest/application \
192 /lib/svc/manifest/application/management \
193 /lib/svc/manifest/application/security \

```

new/usr/src/Targetdirs

4

```

194 /lib/svc/manifest/application/print \
195 /lib/svc/manifest/platform \
196 /lib/svc/manifest/platform/sun4u \
197 /lib/svc/manifest/platform/sun4v \
198 /lib/svc/manifest/site \
199 /lib/svc/method \
200 /lib/svc/monitor \
201 /lib/svc/seed \
202 /lib/svc/share \
203 /kernel \
204 /mnt \
205 /opt \
206 /platform \
207 /proc \
208 /root \
209 /sbin \
210 /system \
211 /system/contract \
212 /system/object \
213 /tmp \
214 /usr \
215 /usr/4lib \
216 /usr/ast \
217 /usr/ast/bin \
218 /usr/bin \
219 /usr/bin/$(MACH32) \
220 /usr/ccs \
221 /usr/ccs/bin \
222 /usr/ccs/lib \
223 /usr/demo \
224 /usr/demo/SOUND \
225 /usr/games \
226 /usr/has \
227 /usr/has/bin \
228 /usr/has/lib \
229 /usr/has/man \
230 /usr/has/man/manlhas \
231 /usr/include \
232 /usr/include/ast \
233 /usr/include/fm \
234 /usr/include/gssapi \
235 /usr/include/hal \
236 /usr/include/kerberosv5 \
237 /usr/include/libmilter \
238 /usr/include/libpolkit \
239 /usr/include/sasl \
240 /usr/include/scsi \
241 /usr/include/security \
242 /usr/include/sys/crypto \
243 /usr/include/tsol \
244 /usr/kernel \
245 /usr/kvm \
246 /usr/lib \
247 /usr/lib/abi \
248 /usr/lib/brand \
249 /usr/lib/brand/ipkg \
250 /usr/lib/brand/labeled \
251 /usr/lib/brand/shared \
252 /usr/lib/brand/sn1 \
253 /usr/lib/brand/solaris10 \
254 /usr/lib/class \
255 /usr/lib/class/FSS \
256 /usr/lib/class/FX \
257 /usr/lib/class/IA \
258 /usr/lib/class/RT \
259 /usr/lib/class/SDC \

```

new/usr/src/Targetdirs

```

260 /usr/lib/class/TS \
261 /usr/lib/crypto \
262 /usr/lib/drv \
263 /usr/lib/elfedit \
264 /usr/lib/fm \
265 /usr/lib/font \
266 /usr/lib/fs \
267 /usr/lib/fs/nfs \
268 /usr/lib/fs/proc \
269 /usr/lib/fs/smb \
270 /usr/lib/fs/zfs \
271 /usr/lib/gss \
272 /usr/lib/hal \
273 /usr/lib/inet \
274 /usr/lib/inet/dhcp \
275 /usr/lib/inet/dhcp/nsu \
276 /usr/lib/inet/dhcp/svc \
277 /usr/lib/inet/dhcp/svcdm \
278 /usr/lib/inet/ilb \
279 /usr/lib/inet/$(MACH32) \
280 $(XDIRS) \
281 /usr/lib/krb5 \
282 /usr/lib/link_audit \
283 /usr/lib/libp \
284 /usr/lib/lwp \
285 /usr/lib/mdb \
286 /usr/lib/mdb/kvm \
287 /usr/lib/mdb/proc \
288 /usr/lib/nfs \
289 /usr/net \
290 /usr/net/servers \
291 /usr/lib/pool \
292 /usr/lib/python2.6 \
293 /usr/lib/python2.6/vendor-packages \
294 /usr/lib/python2.6/vendor-packages/solaris \
295 /usr/lib/python2.6/vendor-packages/zfs \
296 /usr/lib/python2.6/vendor-packages/beadm \
297 /usr/lib/rcap \
298 /usr/lib/rcap/$(MACH32) \
299 /usr/lib/sa \
300 /usr/lib/saf \
301 /usr/lib/sasl \
302 /usr/lib/scsi \
303 /usr/lib/secure \
304 /usr/lib/security \
305 /usr/lib/smbsrv \
306 /usr/lib/vscan \
307 /usr/lib/zfs \
308 /usr/lib/zones \
309 /usr/old \
310 /usr/platform \
311 /usr/proc \
312 /usr/proc/bin \
313 /usr/sadm \
314 /usr/sadm/install \
315 /usr/sadm/install/bin \
316 /usr/sadm/install/scripts \
317 /usr/sbin \
318 /usr/sbin/$(MACH32) \
319 /usr/share \
320 /usr/share/applications \
321 /usr/share/audio \
322 /usr/share/audio/samples \
323 /usr/share/audio/samples/au \
324 /usr/share/gnome \
325 /usr/share/gnome/autostart \

```

5

new/usr/src/Targetdirs

```

326 /usr/share/hwdata \
327 /usr/share/lib \
328 /usr/share/lib/ccs \
329 /usr/share/lib/tmac \
330 /usr/share/lib/ldif \
331 /usr/share/lib/xml \
332 /usr/share/lib/xml/dtd \
333 /usr/share/man \
334 /usr/share/man/man1 \
335 /usr/share/man/man1b \
336 /usr/share/man/man1c \
337 /usr/share/man/man1m \
338 /usr/share/man/man2 \
339 /usr/share/man/man3 \
340 /usr/share/man/man3bsm \
341 /usr/share/man/man3c \
342 /usr/share/man/man3c_db \
343 /usr/share/man/man3cfgadm \
344 /usr/share/man/man3commutil \
345 /usr/share/man/man3contract \
346 /usr/share/man/man3cpc \
347 /usr/share/man/man3curses \
348 /usr/share/man/man3dat \
349 /usr/share/man/man3devid \
350 /usr/share/man/man3devinfo \
351 /usr/share/man/man3dlpi \
352 /usr/share/man/man3dns_sd \
353 /usr/share/man/man3elf \
354 /usr/share/man/man3exacct \
355 /usr/share/man/man3ext \
356 /usr/share/man/man3fcoe \
357 /usr/share/man/man3fstyp \
358 /usr/share/man/man3gen \
359 /usr/share/man/man3gss \
360 /usr/share/man/man3head \
361 /usr/share/man/man3iscsit \
362 /usr/share/man/man3kstat \
363 /usr/share/man/man3kvm \
364 /usr/share/man/man3ldap \
365 /usr/share/man/man3lgrp \
366 /usr/share/man/man3lib \
367 /usr/share/man/man3libucb \
368 /usr/share/man/man3mail \
369 /usr/share/man/man3malloc \
370 /usr/share/man/man3mp \
371 /usr/share/man/man3mpapi \
372 /usr/share/man/man3nsl \
373 /usr/share/man/man3nvpair \
374 /usr/share/man/man3pam \
375 /usr/share/man/man3papi \
376 /usr/share/man/man3perl \
377 /usr/share/man/man3picl \
378 /usr/share/man/man3picltree \
379 /usr/share/man/man3pool \
380 /usr/share/man/man3proc \
381 /usr/share/man/man3project \
382 /usr/share/man/man3resolv \
383 /usr/share/man/man3rpc \
384 /usr/share/man/man3rsm \
385 /usr/share/man/man3sasl \
386 /usr/share/man/man3scf \
387 /usr/share/man/man3sec \
388 /usr/share/man/man3secdb \
389 /usr/share/man/man3sip \
390 /usr/share/man/man3slp \
391 /usr/share/man/man3socket \

```

6

```

392 /usr/share/man/man3stmf \
393 /usr/share/man/man3sysevent \
394 /usr/share/man/man3tecla \
395 /usr/share/man/man3tnf \
396 /usr/share/man/man3tsol \
397 /usr/share/man/man3ucb \
398 /usr/share/man/man3uuid \
399 /usr/share/man/man3volmgt \
400 /usr/share/man/man3xcurses \
401 /usr/share/man/man3xnet \
402 /usr/share/man/man4 \
403 /usr/share/man/man5 \
404 /usr/share/man/man7 \
405 /usr/share/man/man7d \
406 /usr/share/man/man7fs \
407 /usr/share/man/man7i \
408 /usr/share/man/man7ipp \
409 /usr/share/man/man7m \
410 /usr/share/man/man7p \
411 /usr/share/man/man9 \
412 /usr/share/man/man9e \
413 /usr/share/man/man9f \
414 /usr/share/man/man9p \
415 /usr/share/man/man9s \
416 /usr/share/src \
417 /usr/snadm \
418 /usr/snadm/lib \
419 /usr/ucb \
420 $(MACH32_DIRS) \
421 /usr/ucb/lib \
422 /usr/xpg4 \
423 /usr/xpg4/bin \
424 /usr/xpg4/include \
425 /usr/xpg4/lib \
426 /usr/xpg6 \
427 /usr/xpg6/bin \
428 /var \
429 /var/adm \
430 /var/adm/exacct \
431 /var/adm/log \
432 /var/adm/pool \
433 /var/adm/sa \
434 /var/adm/sm.bin \
435 /var/adm/streams \
436 /var/cores \
437 /var/cron \
438 /var/db \
439 /var/db/ipf \
440 /var/games \
441 /var/idmap \
442 /var/krb5 \
443 /var/krb5/rcache \
444 /var/krb5/rcache/root \
445 /var/ld \
446 /var/log \
447 /var/log/pool \
448 /var/logadm \
449 /var/mail \
450 /var/news \
451 /var/opt \
452 /var/preserve \
453 /var/run \
454 /var/saf \
455 /var/sadm \
456 /var/sadm/install \
457 /var/sadm/install/admin \

```

```

458 /var/sadm/install/logs \
459 /var/sadm/pkg \
460 /var/sadm/security \
461 /var/smb \
462 /var/smb/cvol \
463 /var/smb/cvol/windows \
464 /var/smb/cvol/windows/system32 \
465 /var/smb/cvol/windows/system32/vss \
466 /var/spool \
467 /var/spool/cron \
468 /var/spool/cron/atjobs \
469 /var/spool/cron/crontabs \
470 /var/spool/lp \
471 /var/spool/pkg \
472 /var/spool/uucp \
473 /var/spool/uucppublic \
474 /var/svc \
475 /var/svc/log \
476 /var/svc/manifest \
477 /var/svc/manifest/milestone \
478 /var/svc/manifest/device \
479 /var/svc/manifest/system \
480 /var/svc/manifest/system/device \
481 /var/svc/manifest/system/filesystem \
482 /var/svc/manifest/system/security \
483 /var/svc/manifest/system/svc \
484 /var/svc/manifest/network \
485 /var/svc/manifest/network/dns \
486 /var/svc/manifest/network/ipsec \
487 /var/svc/manifest/network/ldap \
488 /var/svc/manifest/network/nfs \
489 /var/svc/manifest/network/nis \
490 /var/svc/manifest/network/rpc \
491 /var/svc/manifest/network/routing \
492 /var/svc/manifest/network/security \
493 /var/svc/manifest/network/shares \
494 /var/svc/manifest/network/ssl \
495 /var/svc/manifest/application \
496 /var/svc/manifest/application/management \
497 /var/svc/manifest/application/print \
498 /var/svc/manifest/application/security \
499 /var/svc/manifest/platform \
500 /var/svc/manifest/platform/sun4u \
501 /var/svc/manifest/platform/sun4v \
502 /var/svc/manifest/site \
503 /var/svc/profile \
504 /var/uucp \
505 /var/tmp \
506 /var/tsol \
507 /var/tsol/doors

509 sparcv9_DIRS64= \
510 /platform/sun4u \
511 /platform/sun4u/lib \
512 /platform/sun4u/lib/$(MACH64) \
513 /usr/platform/sun4u \
514 /usr/platform/sun4u/sbin \
515 /usr/platform/sun4u/lib \
516 /platform/sun4v/lib \
517 /platform/sun4v/lib/$(MACH64) \
518 /usr/platform/sun4v/sbin \
519 /usr/platform/sun4v/lib \
520 /usr/platform/sun4u-us3/lib \
521 /usr/platform/sun4u-opl/lib

523 amd64_DIRS64= \

```

```

524         /platform/i86pc/amd64

526 DIRS64= \
527     ${$(MACH64)_DIRS64} \
528     /lib/${(MACH64)} \
529     /lib/crypto/${(MACH64)} \
530     /lib/fm/${(MACH64)} \
531     /lib/secure/${(MACH64)} \
532     /usr/bin/${(MACH64)} \
533     /usr/ccs/bin/${(MACH64)} \
534     /usr/ccs/lib/${(MACH64)} \
535     /usr/lib/${(MACH64)} \
536     /usr/lib/${(MACH64)}/gss \
537     /usr/lib/brand/sn1/${(MACH64)} \
538     /usr/lib/brand/solaris10/${(MACH64)} \
539     /usr/lib/elfedit/${(MACH64)} \
540     /usr/lib/fm/${(MACH64)} \
541     /usr/lib/fs/nfs/${(MACH64)} \
542     /usr/lib/fs/smb/${(MACH64)} \
543     /usr/lib/inet/${(MACH64)} \
544     /usr/lib/krb5/${(MACH64)} \
545     /usr/lib/libp/${(MACH64)} \
546     /usr/lib/link_audit/${(MACH64)} \
547     /usr/lib/lwp/${(MACH64)} \
548     /usr/lib/ldb/kvm/${(MACH64)} \
549     /usr/lib/ldb/proc/${(MACH64)} \
550     /usr/lib/rcap/${(MACH64)} \
551     /usr/lib/sasl/${(MACH64)} \
552     /usr/lib/scsi/${(MACH64)} \
553     /usr/lib/secure/${(MACH64)} \
554     /usr/lib/security/${(MACH64)} \
555     /usr/lib/smb/srv/${(MACH64)} \
556     /usr/lib/abi/${(MACH64)} \
557     /usr/sbin/${(MACH64)} \
558     /usr/ucb/${(MACH64)} \
559     /usr/ucb/lib/${(MACH64)} \
560     /usr/xpg4/lib/${(MACH64)} \
561     /var/ld/${(MACH64)}

563 # /var/mail/:saved is built directly by the rootdirs target in
564 # /usr/src/Makefile because of the colon in its name.

566 # macros for symbolic links
567 SYM.DIRS= \
568     /bin \
569     /dev/stdin \
570     /dev/stdout \
571     /dev/stderr \
572     /etc/lib/ld.so.1 \
573     /etc/lib/libdl.so.1 \
574     /etc/lib/nss_files.so.1 \
575     /etc/log \
576     /lib/32 \
577     /lib/crypto/32 \
578     /lib/secure/32 \
579     /usr/adm \
580     /usr/spool \
581     /usr/lib/tmac \
582     /usr/ccs/lib/link_audit \
583     /usr/news \
584     /usr/preserve \
585     /usr/lib/32 \
586     /usr/lib/cron \
587     /usr/lib/elfedit/32 \
588     /usr/lib/libp/32 \
589     /usr/lib/lwp/32 \

```

```

590         /usr/lib/link_audit/32 \
591         /usr/lib/secure/32 \
592         /usr/mail \
593         /usr/man \
594         /usr/pub \
595         /usr/src \
596         /usr/tmp \
597         /usr/ucb/lib/32 \
598         /var/ld/32

600 sparc_SYM.DIRS64=

602 SYM.DIRS64= \
603     ${$(MACH)_SYM.DIRS64} \
604     /lib/64 \
605     /lib/crypto/64 \
606     /lib/secure/64 \
607     /usr/lib/64 \
608     /usr/lib/brand/sn1/64 \
609     /usr/lib/brand/solaris10/64 \
610     /usr/lib/elfedit/64 \
611     /usr/lib/libp/64 \
612     /usr/lib/link_audit/64 \
613     /usr/lib/lwp/64 \
614     /usr/lib/secure/64 \
615     /usr/lib/security/64 \
616     /usr/xpg4/lib/64 \
617     /var/ld/64 \
618     /usr/ucb/lib/64

620 # prepend the ROOT prefix

622 ROOTDIRS=          ${TARGETDIRS:%=${ROOT}%}

624 # conditional assignments
625 #
626 # Target directories with non-default values for owner and group must
627 # be referenced here, using their fully-prefixed names, and the non-
628 # default values assigned.  If a directory is mentioned above and not
629 # mentioned below, it has default values for attributes.
630 #
631 # The default value for DIRMODE is specified in usr/src/Makefile.master.
632 #

634 ${ROOT}/var/adm \
635 ${ROOT}/var/adm/sa :=          DIRMODE= 775

637 ${ROOT}/var/spool/lp:=        DIRMODE= 775

639 # file mode
640 #
641 ${ROOT}/tmp \
642 ${ROOT}/var/krb5/rcache \
643 ${ROOT}/var/preserve \
644 ${ROOT}/var/spool/pkg \
645 ${ROOT}/var/spool/uucppublic \
646 ${ROOT}/var/tmp:=            DIRMODE= 1777

648 ${ROOT}/root:=              DIRMODE= 700

650 ${ROOT}/var/krb5/rcache/root:= DIRMODE= 700

653 #
654 # These permissions must match those set
655 # in the package manifests.

```

```

656 #
657 $(ROOT)/var/sadm/pkg \
658 $(ROOT)/var/sadm/security \
659 $(ROOT)/var/sadm/install/logs :=          DIRMODE= 555

662 #
663 # These permissions must match the ones set
664 # internally by fdcs and autofs.
665 #
666 $(ROOT)/dev/fd \
667 $(ROOT)/home:=                          DIRMODE= 555

669 $(ROOT)/var/mail:=                      DIRMODE=1777

671 $(ROOT)/proc:=                          DIRMODE= 555

673 $(ROOT)/system/contract:=              DIRMODE= 555
674 $(ROOT)/system/object:=                DIRMODE= 555

676 # symlink assignments, LINKDEST is the value of the symlink
677 #
678 $(ROOT)/usr/lib/cron:=                  LINKDEST=../etc/cron.d
679 $(ROOT)/bin:=                          LINKDEST=usr/bin
680 $(ROOT)/lib/32:=                       LINKDEST=.
681 $(ROOT)/lib/crypto/32:=                LINKDEST=.
682 $(ROOT)/lib/secure/32:=                LINKDEST=.
683 $(ROOT)/dev/stdin:=                     LINKDEST=fd/0
684 $(ROOT)/dev/stdout:=                   LINKDEST=fd/1
685 $(ROOT)/dev/stderr:=                   LINKDEST=fd/2
686 $(ROOT)/usr/pub:=                       LINKDEST=share/lib/pub
687 $(ROOT)/usr/man:=                       LINKDEST=share/man
688 $(ROOT)/usr/src:=                       LINKDEST=share/src
689 $(ROOT)/usr/adm:=                       LINKDEST=../var/adm
690 $(ROOT)/etc/lib/ld.so.1:=               LINKDEST=../lib/ld.so.1
691 $(ROOT)/etc/lib/libdl.so.1:=            LINKDEST=../lib/libdl.so.1
692 $(ROOT)/etc/lib/nss_files.so.1:=        LINKDEST=../lib/nss_files.so.1
693 $(ROOT)/etc/log:=                       LINKDEST=../var/adm/log
694 $(ROOT)/usr/mail:=                     LINKDEST=../var/mail
695 $(ROOT)/usr/news:=                     LINKDEST=../var/news
696 $(ROOT)/usr/preserve:=                  LINKDEST=../var/preserve
697 $(ROOT)/usr/spool:=                    LINKDEST=../var/spool
698 $(ROOT)/usr/tmp:=                      LINKDEST=../var/tmp
699 $(ROOT)/usr/lib/tmac:=                  LINKDEST=../share/lib/tmac
700 $(ROOT)/usr/lib/32:=                    LINKDEST=.
701 $(ROOT)/usr/lib/elfedit/32:=            LINKDEST=.
702 $(ROOT)/usr/lib/libp/32:=               LINKDEST=.
703 $(ROOT)/usr/lib/lwp/32:=                 LINKDEST=.
704 $(ROOT)/usr/lib/link_audit/32:=         LINKDEST=.
705 $(ROOT)/usr/lib/secure/32:=             LINKDEST=.
706 $(ROOT)/usr/ccs/lib/link_audit:=        LINKDEST=../lib/link_audit
707 $(ROOT)/var/ld/32:=                     LINKDEST=.
708 $(ROOT)/usr/ucb/lib/32:=                LINKDEST=.

711 $(BUILD64) $(ROOT)/lib/64:=             LINKDEST=$(MACH64)
712 $(BUILD64) $(ROOT)/lib/crypto/64:=      LINKDEST=$(MACH64)
713 $(BUILD64) $(ROOT)/lib/secure/64:=       LINKDEST=$(MACH64)
714 $(BUILD64) $(ROOT)/usr/lib/64:=          LINKDEST=$(MACH64)
715 $(BUILD64) $(ROOT)/usr/lib/elfedit/64:=  LINKDEST=$(MACH64)
716 $(BUILD64) $(ROOT)/usr/lib/brand/sn1/64:= LINKDEST=$(MACH64)
717 $(BUILD64) $(ROOT)/usr/lib/brand/solaris10/64:= LINKDEST=$(MACH64)
718 $(BUILD64) $(ROOT)/usr/lib/libp/64:=     LINKDEST=$(MACH64)
719 $(BUILD64) $(ROOT)/usr/lib/lwp/64:=      LINKDEST=$(MACH64)
720 $(BUILD64) $(ROOT)/usr/lib/link_audit/64:= LINKDEST=$(MACH64)
721 $(BUILD64) $(ROOT)/usr/lib/secure/64:=    LINKDEST=$(MACH64)

```

```

722 $(BUILD64) $(ROOT)/usr/lib/security/64:=          LINKDEST=$(MACH64)
723 $(BUILD64) $(ROOT)/usr/xpg4/lib/64:=              LINKDEST=$(MACH64)
724 $(BUILD64) $(ROOT)/var/ld/64:=                    LINKDEST=$(MACH64)
725 $(BUILD64) $(ROOT)/usr/ucb/lib/64:=               LINKDEST=$(MACH64)

727 #
728 # Installing a directory symlink calls for overriding INS.dir to install
729 # a symlink.
730 #
731 $(DIRLINKS:%=$(ROOT)%):= \
732     INS.dir=-$(RM) -r $@; $(SYMLINK) $(LINKDEST) $@

734 # Special symlinks to populate usr/ccs/lib, whose objects
735 # have actually been moved to usr/lib
736 # Rather than adding another set of rules, we add usr/lib/lwp files here
737 $(ROOT)/usr/ccs/lib/libcurses.so:=              REALPATH=../lib/libcurses.so.1
738 $(ROOT)/usr/ccs/lib/llib-lcurses:=             REALPATH=../lib/llib-lcurses
739 $(ROOT)/usr/ccs/lib/llib-lcurses.ln:=          REALPATH=../lib/llib-lcurses.ln
740 $(ROOT)/usr/ccs/lib/libform.so:=                REALPATH=../lib/libform.so.1
741 $(ROOT)/usr/ccs/lib/llib-lform:=               REALPATH=../lib/llib-lform
742 $(ROOT)/usr/ccs/lib/llib-lform.ln:=            REALPATH=../lib/llib-lform.ln
743 $(ROOT)/usr/ccs/lib/libgen.so:=                 REALPATH=../lib/libgen.so.1
744 $(ROOT)/usr/ccs/lib/llib-lgen:=                REALPATH=../lib/llib-lgen
745 $(ROOT)/usr/ccs/lib/llib-lgen.ln:=              REALPATH=../lib/llib-lgen.ln
746 $(ROOT)/usr/ccs/lib/libmalloc.so:=             REALPATH=../lib/libmalloc.so.1
747 $(ROOT)/usr/ccs/lib/libmenu.so:=                REALPATH=../lib/libmenu.so.1
748 $(ROOT)/usr/ccs/lib/llib-lmenu:=               REALPATH=../lib/llib-lmenu
749 $(ROOT)/usr/ccs/lib/llib-lmenu.ln:=            REALPATH=../lib/llib-lmenu.ln
750 $(ROOT)/usr/ccs/lib/libpanel.so:=               REALPATH=../lib/libpanel.so.1
751 $(ROOT)/usr/ccs/lib/llib-lpanel:=               REALPATH=../lib/llib-lpanel
752 $(ROOT)/usr/ccs/lib/llib-lpanel.ln:=            REALPATH=../lib/llib-lpanel.ln
753 $(ROOT)/usr/ccs/lib/libtermcap.so:=             REALPATH=../lib/libcurses.so.1
754 $(ROOT)/usr/ccs/lib/llib-ltermcap:=            REALPATH=../lib/llib-lcurses
755 $(ROOT)/usr/ccs/lib/llib-ltermcap.ln:=          REALPATH=../lib/llib-lcurses.ln
756 $(ROOT)/usr/ccs/lib/libtermcap.so:=            REALPATH=../lib/libtermcap.so.1
757 $(ROOT)/usr/ccs/lib/llib-ltermcap:=            REALPATH=../lib/llib-ltermcap
758 $(ROOT)/usr/ccs/lib/llib-ltermcap.ln:=          REALPATH=../lib/llib-ltermcap.ln
759 $(ROOT)/usr/ccs/lib/values-Xa.o:=              REALPATH=../lib/values-Xa.o
760 $(ROOT)/usr/ccs/lib/values-Xc.o:=              REALPATH=../lib/values-Xc.o
761 $(ROOT)/usr/ccs/lib/values-Xs.o:=              REALPATH=../lib/values-Xs.o
762 $(ROOT)/usr/ccs/lib/values-Xt.o:=              REALPATH=../lib/values-Xt.o
763 $(ROOT)/usr/ccs/lib/values-xpg4.o:=            REALPATH=../lib/values-xpg4.o
764 $(ROOT)/usr/ccs/lib/values-xpg6.o:=            REALPATH=../lib/values-xpg6.o
765 $(ROOT)/usr/ccs/lib/libl.so:=                  REALPATH=../lib/libl.so.1
766 $(ROOT)/usr/ccs/lib/llib-ll.ln:=              REALPATH=../lib/llib-ll.ln
767 $(ROOT)/usr/ccs/lib/liby.so:=                  REALPATH=../lib/liby.so.1
768 $(ROOT)/usr/ccs/lib/llib-ly.ln:=              REALPATH=../lib/llib-ly.ln
769 $(ROOT)/usr/lib/libp/libc.so.1:=               REALPATH=../lib/libc.so.1
770 $(ROOT)/usr/lib/lwp/libthread.so.1:=           REALPATH=../libthread.so.1
771 $(ROOT)/usr/lib/lwp/libthread_db.so.1:=        REALPATH=../libthread_db.so.1

773 # symlinks to populate usr/ccs/lib/$(MACH64)
774 $(ROOT)/usr/ccs/lib/$(MACH64)/libcurses.so:= \
775     REALPATH=../lib/$(MACH64)/libcurses.so.1
776 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-lcurses.ln:= \
777     REALPATH=../lib/$(MACH64)/llib-lcurses.ln
778 $(ROOT)/usr/ccs/lib/$(MACH64)/libform.so:= \
779     REALPATH=../lib/$(MACH64)/libform.so.1
780 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-lform.ln:= \
781     REALPATH=../lib/$(MACH64)/llib-lform.ln
782 $(ROOT)/usr/ccs/lib/$(MACH64)/libgen.so:= \
783     REALPATH=../lib/$(MACH64)/libgen.so.1
784 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-lgen.ln:= \
785     REALPATH=../lib/$(MACH64)/llib-lgen.ln
786 $(ROOT)/usr/ccs/lib/$(MACH64)/libmalloc.so:= \
787     REALPATH=../lib/$(MACH64)/libmalloc.so.1

```

```

788 $(ROOT)/usr/ccs/lib/$(MACH64)/libmenu.so:= \
789     REALPATH=../../../../lib/$(MACH64)/libmenu.so.1
790 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-lmenu.ln:= \
791     REALPATH=../../../../lib/$(MACH64)/llib-lmenu.ln
792 $(ROOT)/usr/ccs/lib/$(MACH64)/libpanel.so:= \
793     REALPATH=../../../../lib/$(MACH64)/libpanel.so.1
794 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-lpanel.ln:= \
795     REALPATH=../../../../lib/$(MACH64)/llib-lpanel.ln
796 $(ROOT)/usr/ccs/lib/$(MACH64)/libtermcap.so:= \
797     REALPATH=../../../../lib/$(MACH64)/libtermcap.so.1
798 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-ltermcap.ln:= \
799     REALPATH=../../../../lib/$(MACH64)/llib-ltermcap.ln
800 $(ROOT)/usr/ccs/lib/$(MACH64)/libtermcap.so:= \
801     REALPATH=../../../../lib/$(MACH64)/libtermcap.so.1
802 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-ltermcap.ln:= \
803     REALPATH=../../../../lib/$(MACH64)/llib-ltermcap.ln
804 $(ROOT)/usr/ccs/lib/$(MACH64)/values-Xa.o:= \
805     REALPATH=../../../../lib/$(MACH64)/values-Xa.o
806 $(ROOT)/usr/ccs/lib/$(MACH64)/values-Xc.o:= \
807     REALPATH=../../../../lib/$(MACH64)/values-Xc.o
808 $(ROOT)/usr/ccs/lib/$(MACH64)/values-Xs.o:= \
809     REALPATH=../../../../lib/$(MACH64)/values-Xs.o
810 $(ROOT)/usr/ccs/lib/$(MACH64)/values-Xt.o:= \
811     REALPATH=../../../../lib/$(MACH64)/values-Xt.o
812 $(ROOT)/usr/ccs/lib/$(MACH64)/values-xpg4.o:= \
813     REALPATH=../../../../lib/$(MACH64)/values-xpg4.o
814 $(ROOT)/usr/ccs/lib/$(MACH64)/values-xpg6.o:= \
815     REALPATH=../../../../lib/$(MACH64)/values-xpg6.o
816 $(ROOT)/usr/ccs/lib/$(MACH64)/libl.so:= \
817     REALPATH=../../../../lib/$(MACH64)/libl.so.1
818 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-ll.ln:= \
819     REALPATH=../../../../lib/$(MACH64)/llib-ll.ln
820 $(ROOT)/usr/ccs/lib/$(MACH64)/liby.so:= \
821     REALPATH=../../../../lib/$(MACH64)/liby.so.1
822 $(ROOT)/usr/ccs/lib/$(MACH64)/llib-ly.ln:= \
823     REALPATH=../../../../lib/$(MACH64)/llib-ly.ln
824 $(ROOT)/usr/lib/libp/$(MACH64)/libc.so.1:= \
825     REALPATH=../../../../lib/$(MACH64)/libc.so.1
826 $(ROOT)/usr/lib/lwp/$(MACH64)/libthread.so.1:= \
827     REALPATH=../../../../lib/$(MACH64)/libthread.so.1
828 $(ROOT)/usr/lib/lwp/$(MACH64)/libthread_db.so.1:= \
829     REALPATH=../../../../lib/$(MACH64)/libthread_db.so.1

```

```

831 SYM.USRCCSLIB= \
832     /usr/ccs/lib/libcurses.so \
833     /usr/ccs/lib/llib-lcurses \
834     /usr/ccs/lib/llib-lcurses.ln \
835     /usr/ccs/lib/libform.so \
836     /usr/ccs/lib/llib-lform \
837     /usr/ccs/lib/llib-lform.ln \
838     /usr/ccs/lib/libgen.so \
839     /usr/ccs/lib/llib-lgen \
840     /usr/ccs/lib/llib-lgen.ln \
841     /usr/ccs/lib/libmalloc.so \
842     /usr/ccs/lib/libmenu.so \
843     /usr/ccs/lib/llib-lmenu \
844     /usr/ccs/lib/llib-lmenu.ln \
845     /usr/ccs/lib/libpanel.so \
846     /usr/ccs/lib/llib-lpanel \
847     /usr/ccs/lib/llib-lpanel.ln \
848     /usr/ccs/lib/libtermcap.so \
849     /usr/ccs/lib/llib-ltermcap \
850     /usr/ccs/lib/llib-ltermcap.ln \
851     /usr/ccs/lib/libtermcap.so \
852     /usr/ccs/lib/llib-ltermcap \
853     /usr/ccs/lib/llib-ltermcap.ln \

```

```

854     /usr/ccs/lib/values-Xa.o \
855     /usr/ccs/lib/values-Xc.o \
856     /usr/ccs/lib/values-Xs.o \
857     /usr/ccs/lib/values-Xt.o \
858     /usr/ccs/lib/values-xpg4.o \
859     /usr/ccs/lib/values-xpg6.o \
860     /usr/ccs/lib/libl.so \
861     /usr/ccs/lib/llib-ll.ln \
862     /usr/ccs/lib/liby.so \
863     /usr/ccs/lib/llib-ly.ln \
864     /usr/lib/libp/libc.so.1 \
865     /usr/lib/lwp/libthread.so.1 \
866     /usr/lib/lwp/libthread_db.so.1

```

```

868 SYM.USRCCSLIB64= \
869     /usr/ccs/lib/$(MACH64)/libcurses.so \
870     /usr/ccs/lib/$(MACH64)/llib-lcurses.ln \
871     /usr/ccs/lib/$(MACH64)/libform.so \
872     /usr/ccs/lib/$(MACH64)/llib-lform.ln \
873     /usr/ccs/lib/$(MACH64)/libgen.so \
874     /usr/ccs/lib/$(MACH64)/llib-lgen.ln \
875     /usr/ccs/lib/$(MACH64)/libmalloc.so \
876     /usr/ccs/lib/$(MACH64)/libmenu.so \
877     /usr/ccs/lib/$(MACH64)/llib-lmenu.ln \
878     /usr/ccs/lib/$(MACH64)/libpanel.so \
879     /usr/ccs/lib/$(MACH64)/llib-lpanel.ln \
880     /usr/ccs/lib/$(MACH64)/libtermcap.so \
881     /usr/ccs/lib/$(MACH64)/llib-ltermcap.ln \
882     /usr/ccs/lib/$(MACH64)/libtermcap.so \
883     /usr/ccs/lib/$(MACH64)/llib-ltermcap.ln \
884     /usr/ccs/lib/$(MACH64)/values-Xa.o \
885     /usr/ccs/lib/$(MACH64)/values-Xc.o \
886     /usr/ccs/lib/$(MACH64)/values-Xs.o \
887     /usr/ccs/lib/$(MACH64)/values-Xt.o \
888     /usr/ccs/lib/$(MACH64)/values-xpg4.o \
889     /usr/ccs/lib/$(MACH64)/values-xpg6.o \
890     /usr/ccs/lib/$(MACH64)/libl.so \
891     /usr/ccs/lib/$(MACH64)/llib-ll.ln \
892     /usr/ccs/lib/$(MACH64)/liby.so \
893     /usr/ccs/lib/$(MACH64)/llib-ly.ln \
894     /usr/lib/libp/$(MACH64)/libc.so.1 \
895     /usr/lib/lwp/$(MACH64)/libthread.so.1 \
896     /usr/lib/lwp/$(MACH64)/libthread_db.so.1

```

```

898 # Special symlinks to direct libraries that have been moved
899 # from /usr/lib to /lib in order to live in the root filesystem.
900 $(ROOT)/lib/libposix4.so.1:= REALPATH=librt.so.1
901 $(ROOT)/lib/libposix4.so:= REALPATH=libposix4.so.1
902 $(ROOT)/lib/llib-lposix4:= REALPATH=llib-lrt
903 $(ROOT)/lib/llib-lposix4.ln:= REALPATH=llib-lrt.ln
904 $(ROOT)/lib/libthread_db.so.1:= REALPATH=libc_db.so.1
905 $(ROOT)/lib/libthread_db.so:= REALPATH=libc_db.so.1
906 $(ROOT)/usr/lib/ld.so.1:= REALPATH=../../../../lib/ld.so.1
907 $(ROOT)/usr/lib/libadm.so.1:= REALPATH=../../../../lib/libadm.so.1
908 $(ROOT)/usr/lib/libadm.so:= REALPATH=../../../../lib/libadm.so.1
909 $(ROOT)/usr/lib/libaio.so.1:= REALPATH=../../../../lib/libaio.so.1
910 $(ROOT)/usr/lib/libaio.so:= REALPATH=../../../../lib/libaio.so.1
911 $(ROOT)/usr/lib/libavl.so.1:= REALPATH=../../../../lib/libavl.so.1
912 $(ROOT)/usr/lib/libavl.so:= REALPATH=../../../../lib/libavl.so.1
913 $(ROOT)/usr/lib/libbsm.so.1:= REALPATH=../../../../lib/libbsm.so.1
914 $(ROOT)/usr/lib/libbsm.so:= REALPATH=../../../../lib/libbsm.so.1
915 $(ROOT)/usr/lib/libc.so.1:= REALPATH=../../../../lib/libc.so.1
916 $(ROOT)/usr/lib/libc.so:= REALPATH=../../../../lib/libc.so.1
917 $(ROOT)/usr/lib/libc_db.so.1:= REALPATH=../../../../lib/libc_db.so.1
918 $(ROOT)/usr/lib/libc_db.so:= REALPATH=../../../../lib/libc_db.so.1
919 $(ROOT)/usr/lib/libcmtutils.so.1:= REALPATH=../../../../lib/libcmtutils.so.1

```

920 \$(ROOT)/usr/lib/libcndutils.so:= REALPATH=../../../../lib/libcndutils.so.1
 921 \$(ROOT)/usr/lib/libcontract.so.1:= REALPATH=../../../../lib/libcontract.so.1
 922 \$(ROOT)/usr/lib/libcontract.so:= REALPATH=../../../../lib/libcontract.so.1
 923 \$(ROOT)/usr/lib/libcryptoutil.so.1:= REALPATH=../../../../lib/libcryptoutil.so.1
 924 \$(ROOT)/usr/lib/libcryptoutil.so:= REALPATH=../../../../lib/libcryptoutil.so.1
 925 \$(ROOT)/usr/lib/libctf.so.1:= REALPATH=../../../../lib/libctf.so.1
 926 \$(ROOT)/usr/lib/libctf.so:= REALPATH=../../../../lib/libctf.so.1
 927 \$(ROOT)/usr/lib/libcurses.so.1:= REALPATH=../../../../lib/libcurses.so.1
 928 \$(ROOT)/usr/lib/libcurses.so:= REALPATH=../../../../lib/libcurses.so.1
 929 \$(ROOT)/usr/lib/libdevice.so.1:= REALPATH=../../../../lib/libdevice.so.1
 930 \$(ROOT)/usr/lib/libdevice.so:= REALPATH=../../../../lib/libdevice.so.1
 931 \$(ROOT)/usr/lib/libdevvid.so.1:= REALPATH=../../../../lib/libdevvid.so.1
 932 \$(ROOT)/usr/lib/libdevvid.so:= REALPATH=../../../../lib/libdevvid.so.1
 933 \$(ROOT)/usr/lib/libdevinfo.so.1:= REALPATH=../../../../lib/libdevinfo.so.1
 934 \$(ROOT)/usr/lib/libdevinfo.so:= REALPATH=../../../../lib/libdevinfo.so.1
 935 \$(ROOT)/usr/lib/libdhcpagent.so.1:= REALPATH=../../../../lib/libdhcpagent.so.1
 936 \$(ROOT)/usr/lib/libdhcpagent.so:= REALPATH=../../../../lib/libdhcpagent.so.1
 937 \$(ROOT)/usr/lib/libdhcputil.so.1:= REALPATH=../../../../lib/libdhcputil.so.1
 938 \$(ROOT)/usr/lib/libdhcputil.so:= REALPATH=../../../../lib/libdhcputil.so.1
 939 \$(ROOT)/usr/lib/libdl.so.1:= REALPATH=../../../../lib/libdl.so.1
 940 \$(ROOT)/usr/lib/libdl.so:= REALPATH=../../../../lib/libdl.so.1
 941 \$(ROOT)/usr/lib/libldpi.so.1:= REALPATH=../../../../lib/libldpi.so.1
 942 \$(ROOT)/usr/lib/libldpi.so:= REALPATH=../../../../lib/libldpi.so.1
 943 \$(ROOT)/usr/lib/libdoor.so.1:= REALPATH=../../../../lib/libdoor.so.1
 944 \$(ROOT)/usr/lib/libdoor.so:= REALPATH=../../../../lib/libdoor.so.1
 945 \$(ROOT)/usr/lib/libefi.so.1:= REALPATH=../../../../lib/libefi.so.1
 946 \$(ROOT)/usr/lib/libefi.so:= REALPATH=../../../../lib/libefi.so.1
 947 \$(ROOT)/usr/lib/libelf.so.1:= REALPATH=../../../../lib/libelf.so.1
 948 \$(ROOT)/usr/lib/libelf.so:= REALPATH=../../../../lib/libelf.so.1
 949 \$(ROOT)/usr/lib/libfdisk.so.1:= REALPATH=../../../../lib/libfdisk.so.1
 950 \$(ROOT)/usr/lib/libfdisk.so:= REALPATH=../../../../lib/libfdisk.so.1
 951 \$(ROOT)/usr/lib/libgen.so.1:= REALPATH=../../../../lib/libgen.so.1
 952 \$(ROOT)/usr/lib/libgen.so:= REALPATH=../../../../lib/libgen.so.1
 953 \$(ROOT)/usr/lib/libinetutil.so.1:= REALPATH=../../../../lib/libinetutil.so.1
 954 \$(ROOT)/usr/lib/libinetutil.so:= REALPATH=../../../../lib/libinetutil.so.1
 955 \$(ROOT)/usr/lib/libintl.so.1:= REALPATH=../../../../lib/libintl.so.1
 956 \$(ROOT)/usr/lib/libintl.so:= REALPATH=../../../../lib/libintl.so.1
 957 \$(ROOT)/usr/lib/libkmdf.so.1:= REALPATH=../../../../lib/libkmdf.so.1
 958 \$(ROOT)/usr/lib/libkmdf.so:= REALPATH=../../../../lib/libkmdf.so.1
 959 \$(ROOT)/usr/lib/libkmdfberder.so.1:= REALPATH=../../../../lib/libkmdfberder.so.1
 960 \$(ROOT)/usr/lib/libkmdfberder.so:= REALPATH=../../../../lib/libkmdfberder.so.1
 961 \$(ROOT)/usr/lib/libkstat.so.1:= REALPATH=../../../../lib/libkstat.so.1
 962 \$(ROOT)/usr/lib/libkstat.so:= REALPATH=../../../../lib/libkstat.so.1
 963 \$(ROOT)/usr/lib/liblddbg.so.4:= REALPATH=../../../../lib/liblddbg.so.4
 964 \$(ROOT)/usr/lib/liblmd.so.1:= REALPATH=../../../../lib/liblmd.so.1
 965 \$(ROOT)/usr/lib/liblmd.so:= REALPATH=../../../../lib/liblmd.so.1
 966 \$(ROOT)/usr/lib/liblmd5.so.1:= REALPATH=../../../../lib/liblmd5.so.1
 967 \$(ROOT)/usr/lib/liblmd5.so:= REALPATH=../../../../lib/liblmd5.so.1
 968 \$(ROOT)/usr/lib/libmeta.so.1:= REALPATH=../../../../lib/libmeta.so.1
 969 \$(ROOT)/usr/lib/libmeta.so:= REALPATH=../../../../lib/libmeta.so.1
 970 \$(ROOT)/usr/lib/libmp.so.1:= REALPATH=../../../../lib/libmp.so.1
 971 \$(ROOT)/usr/lib/libmp.so.2:= REALPATH=../../../../lib/libmp.so.2
 972 \$(ROOT)/usr/lib/libmp.so:= REALPATH=../../../../lib/libmp.so.2
 973 \$(ROOT)/usr/lib/libnsl.so.1:= REALPATH=../../../../lib/libnsl.so.1
 974 \$(ROOT)/usr/lib/libnsl.so:= REALPATH=../../../../lib/libnsl.so.1
 975 \$(ROOT)/usr/lib/libnvpair.so.1:= REALPATH=../../../../lib/libnvpair.so.1
 976 \$(ROOT)/usr/lib/libnvpair.so:= REALPATH=../../../../lib/libnvpair.so.1
 977 \$(ROOT)/usr/lib/libpam.so.1:= REALPATH=../../../../lib/libpam.so.1
 978 \$(ROOT)/usr/lib/libpam.so:= REALPATH=../../../../lib/libpam.so.1
 979 \$(ROOT)/usr/lib/libposix4.so.1:= REALPATH=../../../../lib/librt.so.1
 980 \$(ROOT)/usr/lib/libposix4.so:= REALPATH=../../../../lib/librt.so.1
 981 \$(ROOT)/usr/lib/libproc.so.1:= REALPATH=../../../../lib/libproc.so.1
 982 \$(ROOT)/usr/lib/libproc.so:= REALPATH=../../../../lib/libproc.so.1
 983 \$(ROOT)/usr/lib/libpthread.so.1:= REALPATH=../../../../lib/libpthread.so.1
 984 \$(ROOT)/usr/lib/libpthread.so:= REALPATH=../../../../lib/libpthread.so.1
 985 \$(ROOT)/usr/lib/librcm.so.1:= REALPATH=../../../../lib/librcm.so.1

986 \$(ROOT)/usr/lib/librcm.so:= REALPATH=../../../../lib/librcm.so.1
 987 \$(ROOT)/usr/lib/libresolv.so.1:= REALPATH=../../../../lib/libresolv.so.1
 988 \$(ROOT)/usr/lib/libresolv.so.2:= REALPATH=../../../../lib/libresolv.so.2
 989 \$(ROOT)/usr/lib/libresolv.so:= REALPATH=../../../../lib/libresolv.so.2
 990 \$(ROOT)/usr/lib/librestart.so.1:= REALPATH=../../../../lib/librestart.so.1
 991 \$(ROOT)/usr/lib/librestart.so:= REALPATH=../../../../lib/librestart.so.1
 992 \$(ROOT)/usr/lib/librpcsvc.so.1:= REALPATH=../../../../lib/librpcsvc.so.1
 993 \$(ROOT)/usr/lib/librpcsvc.so:= REALPATH=../../../../lib/librpcsvc.so.1
 994 \$(ROOT)/usr/lib/librt.so.1:= REALPATH=../../../../lib/librt.so.1
 995 \$(ROOT)/usr/lib/librt.so:= REALPATH=../../../../lib/librt.so.1
 996 \$(ROOT)/usr/lib/librtld.so.1:= REALPATH=../../../../lib/librtld.so.1
 997 \$(ROOT)/usr/lib/librtld_db.so.1:= REALPATH=../../../../lib/librtld_db.so.1
 998 \$(ROOT)/usr/lib/librtld_db.so:= REALPATH=../../../../lib/librtld_db.so.1
 999 \$(ROOT)/usr/lib/libscf.so.1:= REALPATH=../../../../lib/libscf.so.1
 1000 \$(ROOT)/usr/lib/libscf.so:= REALPATH=../../../../lib/libscf.so.1
 1001 \$(ROOT)/usr/lib/libsec.so.1:= REALPATH=../../../../lib/libsec.so.1
 1002 \$(ROOT)/usr/lib/libsec.so:= REALPATH=../../../../lib/libsec.so.1
 1003 \$(ROOT)/usr/lib/libsecdb.so.1:= REALPATH=../../../../lib/libsecdb.so.1
 1004 \$(ROOT)/usr/lib/libsecdb.so:= REALPATH=../../../../lib/libsecdb.so.1
 1005 \$(ROOT)/usr/lib/libsendfile.so.1:= REALPATH=../../../../lib/libsendfile.so.1
 1006 \$(ROOT)/usr/lib/libsendfile.so:= REALPATH=../../../../lib/libsendfile.so.1
 1007 \$(ROOT)/usr/lib/libsocket.so.1:= REALPATH=../../../../lib/libsocket.so.1
 1008 \$(ROOT)/usr/lib/libsocket.so:= REALPATH=../../../../lib/libsocket.so.1
 1009 \$(ROOT)/usr/lib/libseven.so.1:= REALPATH=../../../../lib/libseven.so.1
 1010 \$(ROOT)/usr/lib/libseven.so:= REALPATH=../../../../lib/libseven.so.1
 1011 \$(ROOT)/usr/lib/libtermcap.so.1:= REALPATH=../../../../lib/libtermcap.so.1
 1012 \$(ROOT)/usr/lib/libtermcap.so:= REALPATH=../../../../lib/libtermcap.so.1
 1013 \$(ROOT)/usr/lib/libtermcap.so.1:= REALPATH=../../../../lib/libtermcap.so.1
 1014 \$(ROOT)/usr/lib/libtermcap.so:= REALPATH=../../../../lib/libtermcap.so.1
 1015 \$(ROOT)/usr/lib/libthread.so.1:= REALPATH=../../../../lib/libthread.so.1
 1016 \$(ROOT)/usr/lib/libthread.so:= REALPATH=../../../../lib/libthread.so.1
 1017 \$(ROOT)/usr/lib/libthread_db.so.1:= REALPATH=../../../../lib/libc_db.so.1
 1018 \$(ROOT)/usr/lib/libthread_db.so:= REALPATH=../../../../lib/libc_db.so.1
 1019 \$(ROOT)/usr/lib/libtsnet.so.1:= REALPATH=../../../../lib/libtsnet.so.1
 1020 \$(ROOT)/usr/lib/libtsnet.so:= REALPATH=../../../../lib/libtsnet.so.1
 1021 \$(ROOT)/usr/lib/libtsol.so.2:= REALPATH=../../../../lib/libtsol.so.2
 1022 \$(ROOT)/usr/lib/libtsol.so:= REALPATH=../../../../lib/libtsol.so.2
 1023 \$(ROOT)/usr/lib/libubem.so.1:= REALPATH=../../../../lib/libubem.so.1
 1024 \$(ROOT)/usr/lib/libubem.so:= REALPATH=../../../../lib/libubem.so.1
 1025 \$(ROOT)/usr/lib/libuid.so.1:= REALPATH=../../../../lib/libuid.so.1
 1026 \$(ROOT)/usr/lib/libuid.so:= REALPATH=../../../../lib/libuid.so.1
 1027 \$(ROOT)/usr/lib/libuutil.so.1:= REALPATH=../../../../lib/libuutil.so.1
 1028 \$(ROOT)/usr/lib/libuutil.so:= REALPATH=../../../../lib/libuutil.so.1
 1029 \$(ROOT)/usr/lib/libw.so.1:= REALPATH=../../../../lib/libw.so.1
 1030 \$(ROOT)/usr/lib/libw.so:= REALPATH=../../../../lib/libw.so.1
 1031 \$(ROOT)/usr/lib/libxnet.so.1:= REALPATH=../../../../lib/libxnet.so.1
 1032 \$(ROOT)/usr/lib/libxnet.so:= REALPATH=../../../../lib/libxnet.so.1
 1033 \$(ROOT)/usr/lib/libzfs.so.1:= REALPATH=../../../../lib/libzfs.so.1
 1034 \$(ROOT)/usr/lib/libzfs.so:= REALPATH=../../../../lib/libzfs.so.1
 1035 \$(ROOT)/usr/lib/libllib-ladm.ln:= REALPATH=../../../../lib/libllib-ladm.ln
 1036 \$(ROOT)/usr/lib/libllib-ladm:= REALPATH=../../../../lib/libllib-ladm.ln
 1037 \$(ROOT)/usr/lib/libllib-lai.ln:= REALPATH=../../../../lib/libllib-lai.ln
 1038 \$(ROOT)/usr/lib/libllib-lai:= REALPATH=../../../../lib/libllib-lai.ln
 1039 \$(ROOT)/usr/lib/libllib-lavl.ln:= REALPATH=../../../../lib/libllib-lavl.ln
 1040 \$(ROOT)/usr/lib/libllib-lavl:= REALPATH=../../../../lib/libllib-lavl.ln
 1041 \$(ROOT)/usr/lib/libllib-lbms.ln:= REALPATH=../../../../lib/libllib-lbms.ln
 1042 \$(ROOT)/usr/lib/libllib-lbms:= REALPATH=../../../../lib/libllib-lbms.ln
 1043 \$(ROOT)/usr/lib/libllib-lc.ln:= REALPATH=../../../../lib/libllib-lc.ln
 1044 \$(ROOT)/usr/lib/libllib-lc:= REALPATH=../../../../lib/libllib-lc.ln
 1045 \$(ROOT)/usr/lib/libllib-lcmdutils.ln:= REALPATH=../../../../lib/libllib-lcmdutils.ln
 1046 \$(ROOT)/usr/lib/libllib-lcmdutils:= REALPATH=../../../../lib/libllib-lcmdutils.ln
 1047 \$(ROOT)/usr/lib/libllib-lcontract.ln:= REALPATH=../../../../lib/libllib-lcontract.ln
 1048 \$(ROOT)/usr/lib/libllib-lcontract:= REALPATH=../../../../lib/libllib-lcontract.ln
 1049 \$(ROOT)/usr/lib/libllib-lctf.ln:= REALPATH=../../../../lib/libllib-lctf.ln
 1050 \$(ROOT)/usr/lib/libllib-lctf:= REALPATH=../../../../lib/libllib-lctf.ln
 1051 \$(ROOT)/usr/lib/libllib-lcurses.ln:= REALPATH=../../../../lib/libllib-lcurses.ln


```

1052 $(ROOT)/usr/lib/llib-lcurses:= REALPATH=../../../../lib/llib-lcurses
1053 $(ROOT)/usr/lib/llib-ldevice.ln:= REALPATH=../../../../lib/llib-ldevice.ln
1054 $(ROOT)/usr/lib/llib-ldevice:= REALPATH=../../../../lib/llib-ldevice
1055 $(ROOT)/usr/lib/llib-ldevid.ln:= REALPATH=../../../../lib/llib-ldevid.ln
1056 $(ROOT)/usr/lib/llib-ldevid:= REALPATH=../../../../lib/llib-ldevid
1057 $(ROOT)/usr/lib/llib-ldevinfo.ln:= REALPATH=../../../../lib/llib-ldevinfo.ln
1058 $(ROOT)/usr/lib/llib-ldevinfo:= REALPATH=../../../../lib/llib-ldevinfo
1059 $(ROOT)/usr/lib/llib-ldhcpagent.ln:= REALPATH=../../../../lib/llib-ldhcpagent.ln
1060 $(ROOT)/usr/lib/llib-ldhcpagent:= REALPATH=../../../../lib/llib-ldhcpagent
1061 $(ROOT)/usr/lib/llib-ldhcputil.ln:= REALPATH=../../../../lib/llib-ldhcputil.ln
1062 $(ROOT)/usr/lib/llib-ldhcputil:= REALPATH=../../../../lib/llib-ldhcputil
1063 $(ROOT)/usr/lib/llib-ldl.ln:= REALPATH=../../../../lib/llib-ldl.ln
1064 $(ROOT)/usr/lib/llib-ldl:= REALPATH=../../../../lib/llib-ldl
1065 $(ROOT)/usr/lib/llib-ldoor.ln:= REALPATH=../../../../lib/llib-ldoor.ln
1066 $(ROOT)/usr/lib/llib-ldoor:= REALPATH=../../../../lib/llib-ldoor
1067 $(ROOT)/usr/lib/llib-lefi.ln:= REALPATH=../../../../lib/llib-lefi.ln
1068 $(ROOT)/usr/lib/llib-lefi:= REALPATH=../../../../lib/llib-lefi
1069 $(ROOT)/usr/lib/llib-lelf.ln:= REALPATH=../../../../lib/llib-lelf.ln
1070 $(ROOT)/usr/lib/llib-lelf:= REALPATH=../../../../lib/llib-lelf
1071 $(ROOT)/usr/lib/llib-lfdisk.ln:= REALPATH=../../../../lib/llib-lfdisk.ln
1072 $(ROOT)/usr/lib/llib-lfdisk:= REALPATH=../../../../lib/llib-lfdisk
1073 $(ROOT)/usr/lib/llib-lgen.ln:= REALPATH=../../../../lib/llib-lgen.ln
1074 $(ROOT)/usr/lib/llib-lgen:= REALPATH=../../../../lib/llib-lgen
1075 $(ROOT)/usr/lib/llib-linetutil.ln:= REALPATH=../../../../lib/llib-linetutil.ln
1076 $(ROOT)/usr/lib/llib-linetutil:= REALPATH=../../../../lib/llib-linetutil
1077 $(ROOT)/usr/lib/llib-lintl.ln:= REALPATH=../../../../lib/llib-lintl.ln
1078 $(ROOT)/usr/lib/llib-lintl:= REALPATH=../../../../lib/llib-lintl
1079 $(ROOT)/usr/lib/llib-lkstat.ln:= REALPATH=../../../../lib/llib-lkstat.ln
1080 $(ROOT)/usr/lib/llib-lkstat:= REALPATH=../../../../lib/llib-lkstat
1081 $(ROOT)/usr/lib/llib-lmd5.ln:= REALPATH=../../../../lib/llib-lmd5.ln
1082 $(ROOT)/usr/lib/llib-lmd5:= REALPATH=../../../../lib/llib-lmd5
1083 $(ROOT)/usr/lib/llib-lmeta.ln:= REALPATH=../../../../lib/llib-lmeta.ln
1084 $(ROOT)/usr/lib/llib-lmeta:= REALPATH=../../../../lib/llib-lmeta
1085 $(ROOT)/usr/lib/llib-lnsl.ln:= REALPATH=../../../../lib/llib-lnsl.ln
1086 $(ROOT)/usr/lib/llib-lnsl:= REALPATH=../../../../lib/llib-lnsl
1087 $(ROOT)/usr/lib/llib-lnvpair.ln:= REALPATH=../../../../lib/llib-lnvpair.ln
1088 $(ROOT)/usr/lib/llib-lnvpair:= REALPATH=../../../../lib/llib-lnvpair
1089 $(ROOT)/usr/lib/llib-lpam.ln:= REALPATH=../../../../lib/llib-lpam.ln
1090 $(ROOT)/usr/lib/llib-lpam:= REALPATH=../../../../lib/llib-lpam
1091 $(ROOT)/usr/lib/llib-lposix4.ln:= REALPATH=../../../../lib/llib-lrt.ln
1092 $(ROOT)/usr/lib/llib-lposix4:= REALPATH=../../../../lib/llib-lrt
1093 $(ROOT)/usr/lib/llib-lpthread.ln:= REALPATH=../../../../lib/llib-lpthread.ln
1094 $(ROOT)/usr/lib/llib-lpthread:= REALPATH=../../../../lib/llib-lpthread
1095 $(ROOT)/usr/lib/llib-lresolv.ln:= REALPATH=../../../../lib/llib-lresolv.ln
1096 $(ROOT)/usr/lib/llib-lresolv:= REALPATH=../../../../lib/llib-lresolv
1097 $(ROOT)/usr/lib/llib-lrpcsvc.ln:= REALPATH=../../../../lib/llib-lrpcsvc.ln
1098 $(ROOT)/usr/lib/llib-lrpcsvc:= REALPATH=../../../../lib/llib-lrpcsvc
1099 $(ROOT)/usr/lib/llib-lrt.ln:= REALPATH=../../../../lib/llib-lrt.ln
1100 $(ROOT)/usr/lib/llib-lrt:= REALPATH=../../../../lib/llib-lrt
1101 $(ROOT)/usr/lib/llib-lrtld_db.ln:= REALPATH=../../../../lib/llib-lrtld_db.ln
1102 $(ROOT)/usr/lib/llib-lrtld_db:= REALPATH=../../../../lib/llib-lrtld_db
1103 $(ROOT)/usr/lib/llib-lscf.ln:= REALPATH=../../../../lib/llib-lscf.ln
1104 $(ROOT)/usr/lib/llib-lscf:= REALPATH=../../../../lib/llib-lscf
1105 $(ROOT)/usr/lib/llib-lsec.ln:= REALPATH=../../../../lib/llib-lsec.ln
1106 $(ROOT)/usr/lib/llib-lsec:= REALPATH=../../../../lib/llib-lsec
1107 $(ROOT)/usr/lib/llib-lsecdb.ln:= REALPATH=../../../../lib/llib-lsecdb.ln
1108 $(ROOT)/usr/lib/llib-lsecdb:= REALPATH=../../../../lib/llib-lsecdb
1109 $(ROOT)/usr/lib/llib-lsendfile.ln:= REALPATH=../../../../lib/llib-lsendfile.ln
1110 $(ROOT)/usr/lib/llib-lsendfile:= REALPATH=../../../../lib/llib-lsendfile
1111 $(ROOT)/usr/lib/llib-lsocket.ln:= REALPATH=../../../../lib/llib-lsocket.ln
1112 $(ROOT)/usr/lib/llib-lsocket:= REALPATH=../../../../lib/llib-lsocket
1113 $(ROOT)/usr/lib/llib-lsysevent.ln:= REALPATH=../../../../lib/llib-lsysevent.ln
1114 $(ROOT)/usr/lib/llib-lsysevent:= REALPATH=../../../../lib/llib-lsysevent
1115 $(ROOT)/usr/lib/llib-ltermcap.ln:= REALPATH=../../../../lib/llib-ltermcap.ln
1116 $(ROOT)/usr/lib/llib-ltermcap:= REALPATH=../../../../lib/llib-ltermcap
1117 $(ROOT)/usr/lib/llib-ltermplib.ln:= REALPATH=../../../../lib/llib-lcurses.ln

```

```

1118 $(ROOT)/usr/lib/llib-ltermplib:= REALPATH=../../../../lib/llib-lcurses
1119 $(ROOT)/usr/lib/llib-lthread.ln:= REALPATH=../../../../lib/llib-lthread.ln
1120 $(ROOT)/usr/lib/llib-lthread:= REALPATH=../../../../lib/llib-lthread
1121 $(ROOT)/usr/lib/llib-lthread_db.ln:= REALPATH=../../../../lib/llib-lc_db.ln
1122 $(ROOT)/usr/lib/llib-lthread_db:= REALPATH=../../../../lib/llib-lc_db
1123 $(ROOT)/usr/lib/llib-ltsnet.ln:= REALPATH=../../../../lib/llib-ltsnet.ln
1124 $(ROOT)/usr/lib/llib-ltsnet:= REALPATH=../../../../lib/llib-ltsnet
1125 $(ROOT)/usr/lib/llib-ltsol.ln:= REALPATH=../../../../lib/llib-ltsol.ln
1126 $(ROOT)/usr/lib/llib-ltsol:= REALPATH=../../../../lib/llib-ltsol
1127 $(ROOT)/usr/lib/llib-lumem.ln:= REALPATH=../../../../lib/llib-lumem.ln
1128 $(ROOT)/usr/lib/llib-lumem:= REALPATH=../../../../lib/llib-lumem
1129 $(ROOT)/usr/lib/llib-luuid.ln:= REALPATH=../../../../lib/llib-luuid.ln
1130 $(ROOT)/usr/lib/llib-luuid:= REALPATH=../../../../lib/llib-luuid
1131 $(ROOT)/usr/lib/llib-lxnet.ln:= REALPATH=../../../../lib/llib-lxnet.ln
1132 $(ROOT)/usr/lib/llib-lxnet:= REALPATH=../../../../lib/llib-lxnet
1133 $(ROOT)/usr/lib/llib-lzfs.ln:= REALPATH=../../../../lib/llib-lzfs.ln
1134 $(ROOT)/usr/lib/llib-lzfs:= REALPATH=../../../../lib/llib-lzfs
1135 $(ROOT)/usr/lib/nss_compat.so.1:= REALPATH=../../../../lib/nss_compat.so.1
1136 $(ROOT)/usr/lib/nss_dns.so.1:= REALPATH=../../../../lib/nss_dns.so.1
1137 $(ROOT)/usr/lib/nss_files.so.1:= REALPATH=../../../../lib/nss_files.so.1
1138 $(ROOT)/usr/lib/nss_nis.so.1:= REALPATH=../../../../lib/nss_nis.so.1
1139 $(ROOT)/usr/lib/nss_user.so.1:= REALPATH=../../../../lib/nss_user.so.1
1140 $(ROOT)/usr/lib/fm/libfmevent.so.1:= REALPATH=../../../../lib/fm/libfmevent.so.1
1141 $(ROOT)/usr/lib/fm/libfmevent.so:= REALPATH=../../../../lib/fm/libfmevent.so.1
1142 $(ROOT)/usr/lib/fm/llib-lfmevent.ln:= REALPATH=../../../../lib/fm/llib-lfmevent.l
1143 $(ROOT)/usr/lib/fm/llib-lfmevent:= REALPATH=../../../../lib/fm/llib-lfmevent

1144 $(ROOT)/lib/$(MACH64)/libposix4.so.1:= \
1145 REALPATH=librt.so.1
1146 $(ROOT)/lib/$(MACH64)/libposix4.so:= \
1147 REALPATH=libposix4.so.1
1148 $(ROOT)/lib/$(MACH64)/llib-lposix4.ln:= \
1149 REALPATH=llib-lrt.ln
1150 $(ROOT)/lib/$(MACH64)/libthread_db.so.1:= \
1151 REALPATH=libc_db.so.1
1152 $(ROOT)/lib/$(MACH64)/libthread_db.so:= \
1153 REALPATH=libc_db.so.1
1154 $(ROOT)/usr/lib/$(MACH64)/ld.so.1:= \
1155 REALPATH=../../../../lib/$(MACH64)/ld.so.1
1156 $(ROOT)/usr/lib/$(MACH64)/libadm.so.1:= \
1157 REALPATH=../../../../lib/$(MACH64)/libadm.so.1
1158 $(ROOT)/usr/lib/$(MACH64)/libadm.so:= \
1159 REALPATH=../../../../lib/$(MACH64)/libadm.so.1
1160 $(ROOT)/usr/lib/$(MACH64)/libadm.so.1:= \
1161 REALPATH=../../../../lib/$(MACH64)/libadm.so.1
1162 $(ROOT)/usr/lib/$(MACH64)/libaio.so.1:= \
1163 REALPATH=../../../../lib/$(MACH64)/libaio.so.1
1164 $(ROOT)/usr/lib/$(MACH64)/libaio.so:= \
1165 REALPATH=../../../../lib/$(MACH64)/libaio.so.1
1166 $(ROOT)/usr/lib/$(MACH64)/libavl.so.1:= \
1167 REALPATH=../../../../lib/$(MACH64)/libavl.so.1
1168 $(ROOT)/usr/lib/$(MACH64)/libavl.so:= \
1169 REALPATH=../../../../lib/$(MACH64)/libavl.so.1
1170 $(ROOT)/usr/lib/$(MACH64)/libbsm.so.1:= \
1171 REALPATH=../../../../lib/$(MACH64)/libbsm.so.1
1172 $(ROOT)/usr/lib/$(MACH64)/libbsm.so:= \
1173 REALPATH=../../../../lib/$(MACH64)/libbsm.so.1
1174 $(ROOT)/usr/lib/$(MACH64)/libc.so.1:= \
1175 REALPATH=../../../../lib/$(MACH64)/libc.so.1
1176 $(ROOT)/usr/lib/$(MACH64)/libc.so:= \
1177 REALPATH=../../../../lib/$(MACH64)/libc_db.so.1
1178 $(ROOT)/usr/lib/$(MACH64)/libc_db.so.1:= \
1179 REALPATH=../../../../lib/$(MACH64)/libc_db.so.1
1180 $(ROOT)/usr/lib/$(MACH64)/libc_db.so:= \
1181 REALPATH=../../../../lib/$(MACH64)/libc_db.so.1
1182 $(ROOT)/usr/lib/$(MACH64)/libcmdutils.so.1:= \
1183 REALPATH=../../../../lib/$(MACH64)/libcmdutils.so.1
1184 $(ROOT)/usr/lib/$(MACH64)/libcmdutils.so:= \

```

```

1184     REALPATH=../../../../lib/$(MACH64)/libcmdutils.so.1
1185 $(ROOT)/usr/lib/$(MACH64)/libcontract.so.1:= \
1186     REALPATH=../../../../lib/$(MACH64)/libcontract.so.1
1187 $(ROOT)/usr/lib/$(MACH64)/libcontract.so:= \
1188     REALPATH=../../../../lib/$(MACH64)/libcontract.so.1
1189 $(ROOT)/usr/lib/$(MACH64)/libctf.so.1:= \
1190     REALPATH=../../../../lib/$(MACH64)/libctf.so.1
1191 $(ROOT)/usr/lib/$(MACH64)/libctf.so:= \
1192     REALPATH=../../../../lib/$(MACH64)/libctf.so.1
1193 $(ROOT)/usr/lib/$(MACH64)/libcurses.so.1:= \
1194     REALPATH=../../../../lib/$(MACH64)/libcurses.so.1
1195 $(ROOT)/usr/lib/$(MACH64)/libcurses.so:= \
1196     REALPATH=../../../../lib/$(MACH64)/libcurses.so.1
1197 $(ROOT)/usr/lib/$(MACH64)/libdevice.so.1:= \
1198     REALPATH=../../../../lib/$(MACH64)/libdevice.so.1
1199 $(ROOT)/usr/lib/$(MACH64)/libdevice.so:= \
1200     REALPATH=../../../../lib/$(MACH64)/libdevice.so.1
1201 $(ROOT)/usr/lib/$(MACH64)/libdevvid.so.1:= \
1202     REALPATH=../../../../lib/$(MACH64)/libdevvid.so.1
1203 $(ROOT)/usr/lib/$(MACH64)/libdevvid.so:= \
1204     REALPATH=../../../../lib/$(MACH64)/libdevvid.so.1
1205 $(ROOT)/usr/lib/$(MACH64)/libdevinfo.so.1:= \
1206     REALPATH=../../../../lib/$(MACH64)/libdevinfo.so.1
1207 $(ROOT)/usr/lib/$(MACH64)/libdevinfo.so:= \
1208     REALPATH=../../../../lib/$(MACH64)/libdevinfo.so.1
1209 $(ROOT)/usr/lib/$(MACH64)/libdl.so.1:= \
1210     REALPATH=../../../../lib/$(MACH64)/libdl.so.1
1211 $(ROOT)/usr/lib/$(MACH64)/libdl.so:= \
1212     REALPATH=../../../../lib/$(MACH64)/libdl.so.1
1213 $(ROOT)/usr/lib/$(MACH64)/libdlpi.so.1:= \
1214     REALPATH=../../../../lib/$(MACH64)/libdlpi.so.1
1215 $(ROOT)/usr/lib/$(MACH64)/libdlpi.so:= \
1216     REALPATH=../../../../lib/$(MACH64)/libdlpi.so.1
1217 $(ROOT)/usr/lib/$(MACH64)/libdoor.so.1:= \
1218     REALPATH=../../../../lib/$(MACH64)/libdoor.so.1
1219 $(ROOT)/usr/lib/$(MACH64)/libdoor.so:= \
1220     REALPATH=../../../../lib/$(MACH64)/libdoor.so.1
1221 $(ROOT)/usr/lib/$(MACH64)/libefi.so.1:= \
1222     REALPATH=../../../../lib/$(MACH64)/libefi.so.1
1223 $(ROOT)/usr/lib/$(MACH64)/libefi.so:= \
1224     REALPATH=../../../../lib/$(MACH64)/libefi.so.1
1225 $(ROOT)/usr/lib/$(MACH64)/libelf.so.1:= \
1226     REALPATH=../../../../lib/$(MACH64)/libelf.so.1
1227 $(ROOT)/usr/lib/$(MACH64)/libelf.so:= \
1228     REALPATH=../../../../lib/$(MACH64)/libelf.so.1
1229 $(ROOT)/usr/lib/$(MACH64)/libgen.so.1:= \
1230     REALPATH=../../../../lib/$(MACH64)/libgen.so.1
1231 $(ROOT)/usr/lib/$(MACH64)/libgen.so:= \
1232     REALPATH=../../../../lib/$(MACH64)/libgen.so.1
1233 $(ROOT)/usr/lib/$(MACH64)/libinetutil.so.1:= \
1234     REALPATH=../../../../lib/$(MACH64)/libinetutil.so.1
1235 $(ROOT)/usr/lib/$(MACH64)/libinetutil.so:= \
1236     REALPATH=../../../../lib/$(MACH64)/libinetutil.so.1
1237 $(ROOT)/usr/lib/$(MACH64)/libintl.so.1:= \
1238     REALPATH=../../../../lib/$(MACH64)/libintl.so.1
1239 $(ROOT)/usr/lib/$(MACH64)/libintl.so:= \
1240     REALPATH=../../../../lib/$(MACH64)/libintl.so.1
1241 $(ROOT)/usr/lib/$(MACH64)/libkstat.so.1:= \
1242     REALPATH=../../../../lib/$(MACH64)/libkstat.so.1
1243 $(ROOT)/usr/lib/$(MACH64)/libkstat.so:= \
1244     REALPATH=../../../../lib/$(MACH64)/libkstat.so.1
1245 $(ROOT)/usr/lib/$(MACH64)/liblddbg.so.4:= \
1246     REALPATH=../../../../lib/$(MACH64)/liblddbg.so.4
1247 $(ROOT)/usr/lib/$(MACH64)/libmd.so.1:= \
1248     REALPATH=../../../../lib/$(MACH64)/libmd.so.1
1249 $(ROOT)/usr/lib/$(MACH64)/libmd.so:= \

```

```

1250     REALPATH=../../../../lib/$(MACH64)/libmd.so.1
1251 $(ROOT)/usr/lib/$(MACH64)/libmd5.so.1:= \
1252     REALPATH=../../../../lib/$(MACH64)/libmd5.so.1
1253 $(ROOT)/usr/lib/$(MACH64)/libmd5.so:= \
1254     REALPATH=../../../../lib/$(MACH64)/libmd5.so.1
1255 $(ROOT)/usr/lib/$(MACH64)/libmp.so.2:= \
1256     REALPATH=../../../../lib/$(MACH64)/libmp.so.2
1257 $(ROOT)/usr/lib/$(MACH64)/libmp.so:= \
1258     REALPATH=../../../../lib/$(MACH64)/libmp.so.2
1259 $(ROOT)/usr/lib/$(MACH64)/libnsl.so.1:= \
1260     REALPATH=../../../../lib/$(MACH64)/libnsl.so.1
1261 $(ROOT)/usr/lib/$(MACH64)/libnsl.so:= \
1262     REALPATH=../../../../lib/$(MACH64)/libnsl.so.1
1263 $(ROOT)/usr/lib/$(MACH64)/libnvpair.so.1:= \
1264     REALPATH=../../../../lib/$(MACH64)/libnvpair.so.1
1265 $(ROOT)/usr/lib/$(MACH64)/libnvpair.so:= \
1266     REALPATH=../../../../lib/$(MACH64)/libnvpair.so.1
1267 $(ROOT)/usr/lib/$(MACH64)/libpam.so.1:= \
1268     REALPATH=../../../../lib/$(MACH64)/libpam.so.1
1269 $(ROOT)/usr/lib/$(MACH64)/libpam.so:= \
1270     REALPATH=../../../../lib/$(MACH64)/libpam.so.1
1271 $(ROOT)/usr/lib/$(MACH64)/libposix4.so.1:= \
1272     REALPATH=../../../../lib/$(MACH64)/librt.so.1
1273 $(ROOT)/usr/lib/$(MACH64)/libposix4.so:= \
1274     REALPATH=../../../../lib/$(MACH64)/librt.so.1
1275 $(ROOT)/usr/lib/$(MACH64)/libproc.so.1:= \
1276     REALPATH=../../../../lib/$(MACH64)/libproc.so.1
1277 $(ROOT)/usr/lib/$(MACH64)/libproc.so:= \
1278     REALPATH=../../../../lib/$(MACH64)/libproc.so.1
1279 $(ROOT)/usr/lib/$(MACH64)/libpthread.so.1:= \
1280     REALPATH=../../../../lib/$(MACH64)/libpthread.so.1
1281 $(ROOT)/usr/lib/$(MACH64)/libpthread.so:= \
1282     REALPATH=../../../../lib/$(MACH64)/libpthread.so.1
1283 $(ROOT)/usr/lib/$(MACH64)/librcm.so.1:= \
1284     REALPATH=../../../../lib/$(MACH64)/librcm.so.1
1285 $(ROOT)/usr/lib/$(MACH64)/librcm.so:= \
1286     REALPATH=../../../../lib/$(MACH64)/librcm.so.1
1287 $(ROOT)/usr/lib/$(MACH64)/libresolv.so.2:= \
1288     REALPATH=../../../../lib/$(MACH64)/libresolv.so.2
1289 $(ROOT)/usr/lib/$(MACH64)/libresolv.so:= \
1290     REALPATH=../../../../lib/$(MACH64)/libresolv.so.2
1291 $(ROOT)/usr/lib/$(MACH64)/librestart.so.1:= \
1292     REALPATH=../../../../lib/$(MACH64)/librestart.so.1
1293 $(ROOT)/usr/lib/$(MACH64)/librestart.so:= \
1294     REALPATH=../../../../lib/$(MACH64)/librestart.so.1
1295 $(ROOT)/usr/lib/$(MACH64)/librpcsvc.so.1:= \
1296     REALPATH=../../../../lib/$(MACH64)/librpcsvc.so.1
1297 $(ROOT)/usr/lib/$(MACH64)/librpcsvc.so:= \
1298     REALPATH=../../../../lib/$(MACH64)/librpcsvc.so.1
1299 $(ROOT)/usr/lib/$(MACH64)/librt.so.1:= \
1300     REALPATH=../../../../lib/$(MACH64)/librt.so.1
1301 $(ROOT)/usr/lib/$(MACH64)/librt.so:= \
1302     REALPATH=../../../../lib/$(MACH64)/librt.so.1
1303 $(ROOT)/usr/lib/$(MACH64)/librtld.so.1:= \
1304     REALPATH=../../../../lib/$(MACH64)/librtld.so.1
1305 $(ROOT)/usr/lib/$(MACH64)/librtld_db.so.1:= \
1306     REALPATH=../../../../lib/$(MACH64)/librtld_db.so.1
1307 $(ROOT)/usr/lib/$(MACH64)/librtld_db.so:= \
1308     REALPATH=../../../../lib/$(MACH64)/librtld_db.so.1
1309 $(ROOT)/usr/lib/$(MACH64)/libscf.so.1:= \
1310     REALPATH=../../../../lib/$(MACH64)/libscf.so.1
1311 $(ROOT)/usr/lib/$(MACH64)/libscf.so:= \
1312     REALPATH=../../../../lib/$(MACH64)/libscf.so.1
1313 $(ROOT)/usr/lib/$(MACH64)/libsec.so.1:= \
1314     REALPATH=../../../../lib/$(MACH64)/libsec.so.1
1315 $(ROOT)/usr/lib/$(MACH64)/libsec.so:= \

```

```

1316     REALPATH=../../../../lib/$(MACH64)/libsec.so.1
1317 $(ROOT)/usr/lib/$(MACH64)/libsecdb.so.1:= \
1318     REALPATH=../../../../lib/$(MACH64)/libsecdb.so.1
1319 $(ROOT)/usr/lib/$(MACH64)/libsecdb.so:= \
1320     REALPATH=../../../../lib/$(MACH64)/libsecdb.so.1
1321 $(ROOT)/usr/lib/$(MACH64)/libsendfile.so.1:= \
1322     REALPATH=../../../../lib/$(MACH64)/libsendfile.so.1
1323 $(ROOT)/usr/lib/$(MACH64)/libsendfile.so:= \
1324     REALPATH=../../../../lib/$(MACH64)/libsendfile.so.1
1325 $(ROOT)/usr/lib/$(MACH64)/libsocket.so.1:= \
1326     REALPATH=../../../../lib/$(MACH64)/libsocket.so.1
1327 $(ROOT)/usr/lib/$(MACH64)/libsocket.so:= \
1328     REALPATH=../../../../lib/$(MACH64)/libsocket.so.1
1329 $(ROOT)/usr/lib/$(MACH64)/libsysevent.so.1:= \
1330     REALPATH=../../../../lib/$(MACH64)/libsysevent.so.1
1331 $(ROOT)/usr/lib/$(MACH64)/libsysevent.so:= \
1332     REALPATH=../../../../lib/$(MACH64)/libsysevent.so.1
1333 $(ROOT)/usr/lib/$(MACH64)/libtermcap.so.1:= \
1334     REALPATH=../../../../lib/$(MACH64)/libtermcap.so.1
1335 $(ROOT)/usr/lib/$(MACH64)/libtermcap.so:= \
1336     REALPATH=../../../../lib/$(MACH64)/libtermcap.so.1
1337 $(ROOT)/usr/lib/$(MACH64)/libtermlib.so.1:= \
1338     REALPATH=../../../../lib/$(MACH64)/libtermcap.so.1
1339 $(ROOT)/usr/lib/$(MACH64)/libtermlib.so:= \
1340     REALPATH=../../../../lib/$(MACH64)/libtermcap.so.1
1341 $(ROOT)/usr/lib/$(MACH64)/libthread.so.1:= \
1342     REALPATH=../../../../lib/$(MACH64)/libthread.so.1
1343 $(ROOT)/usr/lib/$(MACH64)/libthread.so:= \
1344     REALPATH=../../../../lib/$(MACH64)/libthread.so.1
1345 $(ROOT)/usr/lib/$(MACH64)/libthread_db.so.1:= \
1346     REALPATH=../../../../lib/$(MACH64)/libc_db.so.1
1347 $(ROOT)/usr/lib/$(MACH64)/libthread_db.so:= \
1348     REALPATH=../../../../lib/$(MACH64)/libc_db.so.1
1349 $(ROOT)/usr/lib/$(MACH64)/libtsnet.so.1:= \
1350     REALPATH=../../../../lib/$(MACH64)/libtsnet.so.1
1351 $(ROOT)/usr/lib/$(MACH64)/libtsnet.so:= \
1352     REALPATH=../../../../lib/$(MACH64)/libtsnet.so.1
1353 $(ROOT)/usr/lib/$(MACH64)/libtsol.so.2:= \
1354     REALPATH=../../../../lib/$(MACH64)/libtsol.so.2
1355 $(ROOT)/usr/lib/$(MACH64)/libtsol.so:= \
1356     REALPATH=../../../../lib/$(MACH64)/libtsol.so.2
1357 $(ROOT)/usr/lib/$(MACH64)/libumem.so.1:= \
1358     REALPATH=../../../../lib/$(MACH64)/libumem.so.1
1359 $(ROOT)/usr/lib/$(MACH64)/libumem.so:= \
1360     REALPATH=../../../../lib/$(MACH64)/libumem.so.1
1361 $(ROOT)/usr/lib/$(MACH64)/libuuid.so.1:= \
1362     REALPATH=../../../../lib/$(MACH64)/libuuid.so.1
1363 $(ROOT)/usr/lib/$(MACH64)/libuuid.so:= \
1364     REALPATH=../../../../lib/$(MACH64)/libuuid.so.1
1365 $(ROOT)/usr/lib/$(MACH64)/libuutil.so.1:= \
1366     REALPATH=../../../../lib/$(MACH64)/libuutil.so.1
1367 $(ROOT)/usr/lib/$(MACH64)/libuutil.so:= \
1368     REALPATH=../../../../lib/$(MACH64)/libuutil.so.1
1369 $(ROOT)/usr/lib/$(MACH64)/libw.so.1:= \
1370     REALPATH=../../../../lib/$(MACH64)/libw.so.1
1371 $(ROOT)/usr/lib/$(MACH64)/libw.so:= \
1372     REALPATH=../../../../lib/$(MACH64)/libw.so.1
1373 $(ROOT)/usr/lib/$(MACH64)/libxnet.so.1:= \
1374     REALPATH=../../../../lib/$(MACH64)/libxnet.so.1
1375 $(ROOT)/usr/lib/$(MACH64)/libxnet.so:= \
1376     REALPATH=../../../../lib/$(MACH64)/libxnet.so.1
1377 $(ROOT)/usr/lib/$(MACH64)/libzfs.so:= \
1378     REALPATH=../../../../lib/$(MACH64)/libzfs.so.1
1379 $(ROOT)/usr/lib/$(MACH64)/libzfs.so.1:= \
1380     REALPATH=../../../../lib/$(MACH64)/libzfs.so.1
1381 $(ROOT)/usr/lib/$(MACH64)/libfdisk.so.1:= \

```

```

1382     REALPATH=../../../../lib/$(MACH64)/libfdisk.so.1
1383 $(ROOT)/usr/lib/$(MACH64)/libfdisk.so:= \
1384     REALPATH=../../../../lib/$(MACH64)/libfdisk.so.1
1385 $(ROOT)/usr/lib/$(MACH64)/llib-ladm.ln:= \
1386     REALPATH=../../../../lib/$(MACH64)/llib-ladm.ln
1387 $(ROOT)/usr/lib/$(MACH64)/llib-laio.ln:= \
1388     REALPATH=../../../../lib/$(MACH64)/llib-laio.ln
1389 $(ROOT)/usr/lib/$(MACH64)/llib-lavl.ln:= \
1390     REALPATH=../../../../lib/$(MACH64)/llib-lavl.ln
1391 $(ROOT)/usr/lib/$(MACH64)/llib-lbsm.ln:= \
1392     REALPATH=../../../../lib/$(MACH64)/llib-lbsm.ln
1393 $(ROOT)/usr/lib/$(MACH64)/llib-lc.ln:= \
1394     REALPATH=../../../../lib/$(MACH64)/llib-lc.ln
1395 $(ROOT)/usr/lib/$(MACH64)/llib-lcmdutils.ln:= \
1396     REALPATH=../../../../lib/$(MACH64)/llib-lcmdutils.ln
1397 $(ROOT)/usr/lib/$(MACH64)/llib-lcontract.ln:= \
1398     REALPATH=../../../../lib/$(MACH64)/llib-lcontract.ln
1399 $(ROOT)/usr/lib/$(MACH64)/llib-lctf.ln:= \
1400     REALPATH=../../../../lib/$(MACH64)/llib-lctf.ln
1401 $(ROOT)/usr/lib/$(MACH64)/llib-lcurses.ln:= \
1402     REALPATH=../../../../lib/$(MACH64)/llib-lcurses.ln
1403 $(ROOT)/usr/lib/$(MACH64)/llib-ldevice.ln:= \
1404     REALPATH=../../../../lib/$(MACH64)/llib-ldevice.ln
1405 $(ROOT)/usr/lib/$(MACH64)/llib-ldevid.ln:= \
1406     REALPATH=../../../../lib/$(MACH64)/llib-ldevid.ln
1407 $(ROOT)/usr/lib/$(MACH64)/llib-ldevinfo.ln:= \
1408     REALPATH=../../../../lib/$(MACH64)/llib-ldevinfo.ln
1409 $(ROOT)/usr/lib/$(MACH64)/llib-ldl.ln:= \
1410     REALPATH=../../../../lib/$(MACH64)/llib-ldl.ln
1411 $(ROOT)/usr/lib/$(MACH64)/llib-ldoor.ln:= \
1412     REALPATH=../../../../lib/$(MACH64)/llib-ldoor.ln
1413 $(ROOT)/usr/lib/$(MACH64)/llib-lefi.ln:= \
1414     REALPATH=../../../../lib/$(MACH64)/llib-lefi.ln
1415 $(ROOT)/usr/lib/$(MACH64)/llib-lelf.ln:= \
1416     REALPATH=../../../../lib/$(MACH64)/llib-lelf.ln
1417 $(ROOT)/usr/lib/$(MACH64)/llib-lgen.ln:= \
1418     REALPATH=../../../../lib/$(MACH64)/llib-lgen.ln
1419 $(ROOT)/usr/lib/$(MACH64)/llib-linetutil.ln:= \
1420     REALPATH=../../../../lib/$(MACH64)/llib-linetutil.ln
1421 $(ROOT)/usr/lib/$(MACH64)/llib-lintl.ln:= \
1422     REALPATH=../../../../lib/$(MACH64)/llib-lintl.ln
1423 $(ROOT)/usr/lib/$(MACH64)/llib-lkstat.ln:= \
1424     REALPATH=../../../../lib/$(MACH64)/llib-lkstat.ln
1425 $(ROOT)/usr/lib/$(MACH64)/llib-lmd5.ln:= \
1426     REALPATH=../../../../lib/$(MACH64)/llib-lmd5.ln
1427 $(ROOT)/usr/lib/$(MACH64)/llib-lnsl.ln:= \
1428     REALPATH=../../../../lib/$(MACH64)/llib-lnsl.ln
1429 $(ROOT)/usr/lib/$(MACH64)/llib-lnvpair.ln:= \
1430     REALPATH=../../../../lib/$(MACH64)/llib-lnvpair.ln
1431 $(ROOT)/usr/lib/$(MACH64)/llib-lpam.ln:= \
1432     REALPATH=../../../../lib/$(MACH64)/llib-lpam.ln
1433 $(ROOT)/usr/lib/$(MACH64)/llib-lposix4.ln:= \
1434     REALPATH=../../../../lib/$(MACH64)/llib-lrt.ln
1435 $(ROOT)/usr/lib/$(MACH64)/llib-lpthread.ln:= \
1436     REALPATH=../../../../lib/$(MACH64)/llib-lpthread.ln
1437 $(ROOT)/usr/lib/$(MACH64)/llib-lresolv.ln:= \
1438     REALPATH=../../../../lib/$(MACH64)/llib-lresolv.ln
1439 $(ROOT)/usr/lib/$(MACH64)/llib-lrpsvc.ln:= \
1440     REALPATH=../../../../lib/$(MACH64)/llib-lrpsvc.ln
1441 $(ROOT)/usr/lib/$(MACH64)/llib-lrt.ln:= \
1442     REALPATH=../../../../lib/$(MACH64)/llib-lrt.ln
1443 $(ROOT)/usr/lib/$(MACH64)/llib-lrtld_db.ln:= \
1444     REALPATH=../../../../lib/$(MACH64)/llib-lrtld_db.ln
1445 $(ROOT)/usr/lib/$(MACH64)/llib-lscf.ln:= \
1446     REALPATH=../../../../lib/$(MACH64)/llib-lscf.ln
1447 $(ROOT)/usr/lib/$(MACH64)/llib-lsec.ln:= \

```

```

1448     REALPATH=../../../../lib/$(MACH64)/llib-lsec.ln
1449 $(ROOT)/usr/lib/$(MACH64)/llib-lsecdb.ln:= \
1450     REALPATH=../../../../lib/$(MACH64)/llib-lsecdb.ln
1451 $(ROOT)/usr/lib/$(MACH64)/llib-lsendfile.ln:= \
1452     REALPATH=../../../../lib/$(MACH64)/llib-lsendfile.ln
1453 $(ROOT)/usr/lib/$(MACH64)/llib-lsocket.ln:= \
1454     REALPATH=../../../../lib/$(MACH64)/llib-lsocket.ln
1455 $(ROOT)/usr/lib/$(MACH64)/llib-lsysevent.ln:= \
1456     REALPATH=../../../../lib/$(MACH64)/llib-lsysevent.ln
1457 $(ROOT)/usr/lib/$(MACH64)/llib-ltermcap.ln:= \
1458     REALPATH=../../../../lib/$(MACH64)/llib-ltermcap.ln
1459 $(ROOT)/usr/lib/$(MACH64)/llib-ltermplib.ln:= \
1460     REALPATH=../../../../lib/$(MACH64)/llib-lcurses.ln
1461 $(ROOT)/usr/lib/$(MACH64)/llib-lthread.ln:= \
1462     REALPATH=../../../../lib/$(MACH64)/llib-lthread.ln
1463 $(ROOT)/usr/lib/$(MACH64)/llib-lthread_db.ln:= \
1464     REALPATH=../../../../lib/$(MACH64)/llib-lc_db.ln
1465 $(ROOT)/usr/lib/$(MACH64)/llib-ltsnet.ln:= \
1466     REALPATH=../../../../lib/$(MACH64)/llib-ltsnet.ln
1467 $(ROOT)/usr/lib/$(MACH64)/llib-ltsol.ln:= \
1468     REALPATH=../../../../lib/$(MACH64)/llib-ltsol.ln
1469 $(ROOT)/usr/lib/$(MACH64)/llib-lumem.ln:= \
1470     REALPATH=../../../../lib/$(MACH64)/llib-lumem.ln
1471 $(ROOT)/usr/lib/$(MACH64)/llib-luuid.ln:= \
1472     REALPATH=../../../../lib/$(MACH64)/llib-luuid.ln
1473 $(ROOT)/usr/lib/$(MACH64)/llib-lxnet.ln:= \
1474     REALPATH=../../../../lib/$(MACH64)/llib-lxnet.ln
1475 $(ROOT)/usr/lib/$(MACH64)/llib-lzfs.ln:= \
1476     REALPATH=../../../../lib/$(MACH64)/llib-lzfs.ln
1477 $(ROOT)/usr/lib/$(MACH64)/llib-lfdisk.ln:= \
1478     REALPATH=../../../../lib/$(MACH64)/llib-lfdisk.ln
1479 $(ROOT)/usr/lib/$(MACH64)/nss_compat.so.1:= \
1480     REALPATH=../../../../lib/$(MACH64)/nss_compat.so.1
1481 $(ROOT)/usr/lib/$(MACH64)/nss_dns.so.1:= \
1482     REALPATH=../../../../lib/$(MACH64)/nss_dns.so.1
1483 $(ROOT)/usr/lib/$(MACH64)/nss_files.so.1:= \
1484     REALPATH=../../../../lib/$(MACH64)/nss_files.so.1
1485 $(ROOT)/usr/lib/$(MACH64)/nss_nis.so.1:= \
1486     REALPATH=../../../../lib/$(MACH64)/nss_nis.so.1
1487 $(ROOT)/usr/lib/$(MACH64)/nss_user.so.1:= \
1488     REALPATH=../../../../lib/$(MACH64)/nss_user.so.1
1489 $(ROOT)/usr/lib/fm/$(MACH64)/libfmevent.so.1:= \
1490     REALPATH=../../../../lib/fm/$(MACH64)/libfmevent.so.1
1491 $(ROOT)/usr/lib/fm/$(MACH64)/libfmevent.so:= \
1492     REALPATH=../../../../lib/fm/$(MACH64)/libfmevent.so.1
1493 $(ROOT)/usr/lib/fm/$(MACH64)/llib-lfmevent.ln:= \
1494     REALPATH=../../../../lib/fm/$(MACH64)/llib-lfmevent.ln

1496 i386_SYM.USRLIB= \
1497     /usr/lib/libfdisk.so \
1498     /usr/lib/libfdisk.so.1 \
1499     /usr/lib/llib-lfdisk \
1500     /usr/lib/llib-lfdisk.ln

1502 SYM.USRLIB= \
1503     $(MACH)_SYM.USRLIB \
1504     /lib/libposix4.so \
1505     /lib/libposix4.so.1 \
1506     /lib/llib-lposix4 \
1507     /lib/llib-lposix4.ln \
1508     /lib/libthread_db.so \
1509     /lib/libthread_db.so.1 \
1510     /usr/lib/ld.so.1 \
1511     /usr/lib/libadm.so \
1512     /usr/lib/libadm.so.1 \
1513     /usr/lib/libaio.so \

```

```

1514     /usr/lib/libaio.so.1 \
1515     /usr/lib/libavl.so \
1516     /usr/lib/libavl.so.1 \
1517     /usr/lib/libbsm.so \
1518     /usr/lib/libbsm.so.1 \
1519     /usr/lib/libc.so \
1520     /usr/lib/libc.so.1 \
1521     /usr/lib/libc_db.so \
1522     /usr/lib/libc_db.so.1 \
1523     /usr/lib/libcmdutils.so \
1524     /usr/lib/libcmdutils.so.1 \
1525     /usr/lib/libcontract.so \
1526     /usr/lib/libcontract.so.1 \
1527     /usr/lib/libctf.so \
1528     /usr/lib/libctf.so.1 \
1529     /usr/lib/libcurses.so \
1530     /usr/lib/libcurses.so.1 \
1531     /usr/lib/libdevice.so \
1532     /usr/lib/libdevice.so.1 \
1533     /usr/lib/libdevid.so \
1534     /usr/lib/libdevid.so.1 \
1535     /usr/lib/libdevinfo.so \
1536     /usr/lib/libdevinfo.so.1 \
1537     /usr/lib/libdhcpage.so \
1538     /usr/lib/libdhcpage.so.1 \
1539     /usr/lib/libdhcputil.so \
1540     /usr/lib/libdhcputil.so.1 \
1541     /usr/lib/libddl.so \
1542     /usr/lib/libddl.so.1 \
1543     /usr/lib/libdmpi.so \
1544     /usr/lib/libdmpi.so.1 \
1545     /usr/lib/libdoor.so \
1546     /usr/lib/libdoor.so.1 \
1547     /usr/lib/libefi.so \
1548     /usr/lib/libefi.so.1 \
1549     /usr/lib/libelf.so \
1550     /usr/lib/libelf.so.1 \
1551     /usr/lib/libgen.so \
1552     /usr/lib/libgen.so.1 \
1553     /usr/lib/libinetutil.so \
1554     /usr/lib/libinetutil.so.1 \
1555     /usr/lib/libintl.so \
1556     /usr/lib/libintl.so.1 \
1557     /usr/lib/libkstat.so \
1558     /usr/lib/libkstat.so.1 \
1559     /usr/lib/liblddbg.so.4 \
1560     /usr/lib/libmd.so \
1561     /usr/lib/libmd.so.1 \
1562     /usr/lib/libmd5.so \
1563     /usr/lib/libmd5.so.1 \
1564     /usr/lib/libmeta.so \
1565     /usr/lib/libmeta.so.1 \
1566     /usr/lib/libmp.so \
1567     /usr/lib/libmp.so.1 \
1568     /usr/lib/libmp.so.2 \
1569     /usr/lib/libnsl.so \
1570     /usr/lib/libnsl.so.1 \
1571     /usr/lib/libnvpair.so \
1572     /usr/lib/libnvpair.so.1 \
1573     /usr/lib/libpam.so \
1574     /usr/lib/libpam.so.1 \
1575     /usr/lib/libposix4.so \
1576     /usr/lib/libposix4.so.1 \
1577     /usr/lib/libproc.so \
1578     /usr/lib/libproc.so.1 \
1579     /usr/lib/libpthread.so \

```

```

1580 /usr/lib/libpthread.so.1 \
1581 /usr/lib/librcm.so \
1582 /usr/lib/librcm.so.1 \
1583 /usr/lib/libresolv.so \
1584 /usr/lib/libresolv.so.1 \
1585 /usr/lib/libresolv.so.2 \
1586 /usr/lib/librestart.so \
1587 /usr/lib/librestart.so.1 \
1588 /usr/lib/librpcsvc.so \
1589 /usr/lib/librpcsvc.so.1 \
1590 /usr/lib/librt.so \
1591 /usr/lib/librt.so.1 \
1592 /usr/lib/librtld.so.1 \
1593 /usr/lib/librtld_db.so \
1594 /usr/lib/librtld_db.so.1 \
1595 /usr/lib/libscf.so \
1596 /usr/lib/libscf.so.1 \
1597 /usr/lib/libsec.so \
1598 /usr/lib/libsec.so.1 \
1599 /usr/lib/libsecdb.so \
1600 /usr/lib/libsecdb.so.1 \
1601 /usr/lib/libsendfile.so \
1602 /usr/lib/libsendfile.so.1 \
1603 /usr/lib/libsocket.so \
1604 /usr/lib/libsocket.so.1 \
1605 /usr/lib/libsysevent.so \
1606 /usr/lib/libsysevent.so.1 \
1607 /usr/lib/libtermcap.so \
1608 /usr/lib/libtermcap.so.1 \
1609 /usr/lib/libtermplib.so \
1610 /usr/lib/libtermplib.so.1 \
1611 /usr/lib/libthread.so \
1612 /usr/lib/libthread.so.1 \
1613 /usr/lib/libthread_db.so \
1614 /usr/lib/libthread_db.so.1 \
1615 /usr/lib/libtsnet.so \
1616 /usr/lib/libtsnet.so.1 \
1617 /usr/lib/libtsol.so \
1618 /usr/lib/libtsol.so.2 \
1619 /usr/lib/libumem.so \
1620 /usr/lib/libumem.so.1 \
1621 /usr/lib/libuuid.so \
1622 /usr/lib/libuuid.so.1 \
1623 /usr/lib/libuutil.so \
1624 /usr/lib/libuutil.so.1 \
1625 /usr/lib/libw.so \
1626 /usr/lib/libw.so.1 \
1627 /usr/lib/libxnet.so \
1628 /usr/lib/libxnet.so.1 \
1629 /usr/lib/libzfs.so \
1630 /usr/lib/libzfs.so.1 \
1631 /usr/lib/llib-ladm \
1632 /usr/lib/llib-ladm.ln \
1633 /usr/lib/llib-laio \
1634 /usr/lib/llib-laio.ln \
1635 /usr/lib/llib-lavl \
1636 /usr/lib/llib-lavl.ln \
1637 /usr/lib/llib-lbsm \
1638 /usr/lib/llib-lbsm.ln \
1639 /usr/lib/llib-lc \
1640 /usr/lib/llib-lc.ln \
1641 /usr/lib/llib-lcmdutils \
1642 /usr/lib/llib-lcmdutils.ln \
1643 /usr/lib/llib-lcontract \
1644 /usr/lib/llib-lcontract.ln \
1645 /usr/lib/llib-lctf \

```

```

1646 /usr/lib/llib-lctf.ln \
1647 /usr/lib/llib-lcurses \
1648 /usr/lib/llib-lcurses.ln \
1649 /usr/lib/llib-ldevice \
1650 /usr/lib/llib-ldevice.ln \
1651 /usr/lib/llib-ldevid \
1652 /usr/lib/llib-ldevid.ln \
1653 /usr/lib/llib-ldevinfo \
1654 /usr/lib/llib-ldevinfo.ln \
1655 /usr/lib/llib-ldhcpagent \
1656 /usr/lib/llib-ldhcpagent.ln \
1657 /usr/lib/llib-ldhcputil \
1658 /usr/lib/llib-ldhcputil.ln \
1659 /usr/lib/llib-ldl \
1660 /usr/lib/llib-ldl.ln \
1661 /usr/lib/llib-ldoor \
1662 /usr/lib/llib-ldoor.ln \
1663 /usr/lib/llib-lefi \
1664 /usr/lib/llib-lefi.ln \
1665 /usr/lib/llib-lelf \
1666 /usr/lib/llib-lelf.ln \
1667 /usr/lib/llib-lgen \
1668 /usr/lib/llib-lgen.ln \
1669 /usr/lib/llib-linetutil \
1670 /usr/lib/llib-linetutil.ln \
1671 /usr/lib/llib-lintl \
1672 /usr/lib/llib-lintl.ln \
1673 /usr/lib/llib-lkstat \
1674 /usr/lib/llib-lkstat.ln \
1675 /usr/lib/llib-lmd5 \
1676 /usr/lib/llib-lmd5.ln \
1677 /usr/lib/llib-lmeta \
1678 /usr/lib/llib-lmeta.ln \
1679 /usr/lib/llib-lnsl \
1680 /usr/lib/llib-lnsl.ln \
1681 /usr/lib/llib-lnvpair \
1682 /usr/lib/llib-lnvpair.ln \
1683 /usr/lib/llib-lpam \
1684 /usr/lib/llib-lpam.ln \
1685 /usr/lib/llib-lposix4 \
1686 /usr/lib/llib-lposix4.ln \
1687 /usr/lib/llib-lpthread \
1688 /usr/lib/llib-lpthread.ln \
1689 /usr/lib/llib-lresolv \
1690 /usr/lib/llib-lresolv.ln \
1691 /usr/lib/llib-lrpcsvc \
1692 /usr/lib/llib-lrpcsvc.ln \
1693 /usr/lib/llib-lrt \
1694 /usr/lib/llib-lrt.ln \
1695 /usr/lib/llib-lrtld_db \
1696 /usr/lib/llib-lrtld_db.ln \
1697 /usr/lib/llib-lscf \
1698 /usr/lib/llib-lscf.ln \
1699 /usr/lib/llib-lsec \
1700 /usr/lib/llib-lsec.ln \
1701 /usr/lib/llib-lsecdb \
1702 /usr/lib/llib-lsecdb.ln \
1703 /usr/lib/llib-lsendfile \
1704 /usr/lib/llib-lsendfile.ln \
1705 /usr/lib/llib-lsocket \
1706 /usr/lib/llib-lsocket.ln \
1707 /usr/lib/llib-lsysevent \
1708 /usr/lib/llib-lsysevent.ln \
1709 /usr/lib/llib-ltermcap \
1710 /usr/lib/llib-ltermcap.ln \
1711 /usr/lib/llib-ltermplib \

```

```

1712 /usr/lib/llib-ltermplib.ln \
1713 /usr/lib/llib-lthread \
1714 /usr/lib/llib-lthread.ln \
1715 /usr/lib/llib-lthread_db \
1716 /usr/lib/llib-lthread_db.ln \
1717 /usr/lib/llib-ltsnet \
1718 /usr/lib/llib-ltsnet.ln \
1719 /usr/lib/llib-ltsol \
1720 /usr/lib/llib-ltsol.ln \
1721 /usr/lib/llib-lumem \
1722 /usr/lib/llib-lumem.ln \
1723 /usr/lib/llib-luuid \
1724 /usr/lib/llib-luuid.ln \
1725 /usr/lib/llib-lxnet \
1726 /usr/lib/llib-lxnet.ln \
1727 /usr/lib/llib-lzfs \
1728 /usr/lib/llib-lzfs.ln \
1729 /usr/lib/nss_compat.so.1 \
1730 /usr/lib/nss_dns.so.1 \
1731 /usr/lib/nss_files.so.1 \
1732 /usr/lib/nss_nis.so.1 \
1733 /usr/lib/nss_user.so.1 \
1734 /usr/lib/fm/libfmevent.so \
1735 /usr/lib/fm/libfmevent.so.1 \
1736 /usr/lib/fm/llib-lfmevent \
1737 /usr/lib/fm/llib-lfmevent.ln

1739 sparcv9_SYM.USRLIB64=

1741 amd64_SYM.USRLIB64= \
1742 /usr/lib/amd64/libfdisk.so \
1743 /usr/lib/amd64/libfdisk.so.1 \
1744 /usr/lib/amd64/llib-lfdisk.ln

1747 SYM.USRLIB64= \
1748 $(MACH64)_SYM.USRLIB64 \
1749 /lib/$(MACH64)/libposix4.so \
1750 /lib/$(MACH64)/libposix4.so.1 \
1751 /lib/$(MACH64)/llib-lposix4.ln \
1752 /lib/$(MACH64)/libthread_db.so \
1753 /lib/$(MACH64)/libthread_db.so.1 \
1754 /usr/lib/$(MACH64)/ld.so.1 \
1755 /usr/lib/$(MACH64)/libadm.so \
1756 /usr/lib/$(MACH64)/libadm.so.1 \
1757 /usr/lib/$(MACH64)/libaio.so \
1758 /usr/lib/$(MACH64)/libaio.so.1 \
1759 /usr/lib/$(MACH64)/libavl.so \
1760 /usr/lib/$(MACH64)/libavl.so.1 \
1761 /usr/lib/$(MACH64)/libbsm.so \
1762 /usr/lib/$(MACH64)/libbsm.so.1 \
1763 /usr/lib/$(MACH64)/libc.so \
1764 /usr/lib/$(MACH64)/libc.so.1 \
1765 /usr/lib/$(MACH64)/libc_db.so \
1766 /usr/lib/$(MACH64)/libc_db.so.1 \
1767 /usr/lib/$(MACH64)/libcmdutils.so \
1768 /usr/lib/$(MACH64)/libcmdutils.so.1 \
1769 /usr/lib/$(MACH64)/libcontract.so \
1770 /usr/lib/$(MACH64)/libcontract.so.1 \
1771 /usr/lib/$(MACH64)/libctf.so \
1772 /usr/lib/$(MACH64)/libctf.so.1 \
1773 /usr/lib/$(MACH64)/libcurses.so \
1774 /usr/lib/$(MACH64)/libcurses.so.1 \
1775 /usr/lib/$(MACH64)/libdevice.so \
1776 /usr/lib/$(MACH64)/libdevice.so.1 \
1777 /usr/lib/$(MACH64)/libdevvid.so \

```

```

1778 /usr/lib/$(MACH64)/libdevvid.so.1 \
1779 /usr/lib/$(MACH64)/libdevinfo.so \
1780 /usr/lib/$(MACH64)/libdevinfo.so.1 \
1781 /usr/lib/$(MACH64)/libdl.so \
1782 /usr/lib/$(MACH64)/libdl.so.1 \
1783 /usr/lib/$(MACH64)/libdlpi.so \
1784 /usr/lib/$(MACH64)/libdlpi.so.1 \
1785 /usr/lib/$(MACH64)/libdoor.so \
1786 /usr/lib/$(MACH64)/libdoor.so.1 \
1787 /usr/lib/$(MACH64)/libefi.so \
1788 /usr/lib/$(MACH64)/libefi.so.1 \
1789 /usr/lib/$(MACH64)/libelf.so \
1790 /usr/lib/$(MACH64)/libelf.so.1 \
1791 /usr/lib/$(MACH64)/libgen.so \
1792 /usr/lib/$(MACH64)/libgen.so.1 \
1793 /usr/lib/$(MACH64)/libinetutil.so \
1794 /usr/lib/$(MACH64)/libinetutil.so.1 \
1795 /usr/lib/$(MACH64)/libintl.so \
1796 /usr/lib/$(MACH64)/libintl.so.1 \
1797 /usr/lib/$(MACH64)/libkstat.so \
1798 /usr/lib/$(MACH64)/libkstat.so.1 \
1799 /usr/lib/$(MACH64)/liblddbg.so.4 \
1800 /usr/lib/$(MACH64)/libmd.so \
1801 /usr/lib/$(MACH64)/libmd.so.1 \
1802 /usr/lib/$(MACH64)/libmd5.so \
1803 /usr/lib/$(MACH64)/libmd5.so.1 \
1804 /usr/lib/$(MACH64)/libmp.so \
1805 /usr/lib/$(MACH64)/libmp.so.2 \
1806 /usr/lib/$(MACH64)/libnsl.so \
1807 /usr/lib/$(MACH64)/libnsl.so.1 \
1808 /usr/lib/$(MACH64)/libnvpair.so \
1809 /usr/lib/$(MACH64)/libnvpair.so.1 \
1810 /usr/lib/$(MACH64)/libpam.so \
1811 /usr/lib/$(MACH64)/libpam.so.1 \
1812 /usr/lib/$(MACH64)/libposix4.so \
1813 /usr/lib/$(MACH64)/libposix4.so.1 \
1814 /usr/lib/$(MACH64)/libproc.so \
1815 /usr/lib/$(MACH64)/libproc.so.1 \
1816 /usr/lib/$(MACH64)/libpthread.so \
1817 /usr/lib/$(MACH64)/libpthread.so.1 \
1818 /usr/lib/$(MACH64)/librcm.so \
1819 /usr/lib/$(MACH64)/librcm.so.1 \
1820 /usr/lib/$(MACH64)/libresolv.so \
1821 /usr/lib/$(MACH64)/libresolv.so.2 \
1822 /usr/lib/$(MACH64)/librestart.so \
1823 /usr/lib/$(MACH64)/librestart.so.1 \
1824 /usr/lib/$(MACH64)/librpcsvc.so \
1825 /usr/lib/$(MACH64)/librpcsvc.so.1 \
1826 /usr/lib/$(MACH64)/librt.so \
1827 /usr/lib/$(MACH64)/librt.so.1 \
1828 /usr/lib/$(MACH64)/librtld.so.1 \
1829 /usr/lib/$(MACH64)/librtld_db.so \
1830 /usr/lib/$(MACH64)/librtld_db.so.1 \
1831 /usr/lib/$(MACH64)/libscf.so \
1832 /usr/lib/$(MACH64)/libscf.so.1 \
1833 /usr/lib/$(MACH64)/libsec.so \
1834 /usr/lib/$(MACH64)/libsec.so.1 \
1835 /usr/lib/$(MACH64)/libsecdb.so \
1836 /usr/lib/$(MACH64)/libsecdb.so.1 \
1837 /usr/lib/$(MACH64)/libsendfile.so \
1838 /usr/lib/$(MACH64)/libsendfile.so.1 \
1839 /usr/lib/$(MACH64)/libsocket.so \
1840 /usr/lib/$(MACH64)/libsocket.so.1 \
1841 /usr/lib/$(MACH64)/libsysevent.so \
1842 /usr/lib/$(MACH64)/libsysevent.so.1 \
1843 /usr/lib/$(MACH64)/libtermcap.so \

```

```

1844 /usr/lib/$(MACH64)/libtermcap.so.1 \
1845 /usr/lib/$(MACH64)/libtermcap.so \
1846 /usr/lib/$(MACH64)/libtermcap.so.1 \
1847 /usr/lib/$(MACH64)/libthread.so \
1848 /usr/lib/$(MACH64)/libthread.so.1 \
1849 /usr/lib/$(MACH64)/libthread_db.so \
1850 /usr/lib/$(MACH64)/libthread_db.so.1 \
1851 /usr/lib/$(MACH64)/libtsnet.so \
1852 /usr/lib/$(MACH64)/libtsnet.so.1 \
1853 /usr/lib/$(MACH64)/libtsol.so \
1854 /usr/lib/$(MACH64)/libtsol.so.2 \
1855 /usr/lib/$(MACH64)/libumem.so \
1856 /usr/lib/$(MACH64)/libumem.so.1 \
1857 /usr/lib/$(MACH64)/libuuid.so \
1858 /usr/lib/$(MACH64)/libuuid.so.1 \
1859 /usr/lib/$(MACH64)/libutil.so \
1860 /usr/lib/$(MACH64)/libutil.so.1 \
1861 /usr/lib/$(MACH64)/libw.so \
1862 /usr/lib/$(MACH64)/libw.so.1 \
1863 /usr/lib/$(MACH64)/libxnet.so \
1864 /usr/lib/$(MACH64)/libxnet.so.1 \
1865 /usr/lib/$(MACH64)/libzfs.so \
1866 /usr/lib/$(MACH64)/libzfs.so.1 \
1867 /usr/lib/$(MACH64)/llib-ladm.ln \
1868 /usr/lib/$(MACH64)/llib-laio.ln \
1869 /usr/lib/$(MACH64)/llib-lavl.ln \
1870 /usr/lib/$(MACH64)/llib-lbsm.ln \
1871 /usr/lib/$(MACH64)/llib-lc.ln \
1872 /usr/lib/$(MACH64)/llib-lcmdutils.ln \
1873 /usr/lib/$(MACH64)/llib-lcontract.ln \
1874 /usr/lib/$(MACH64)/llib-lctf.ln \
1875 /usr/lib/$(MACH64)/llib-lcurses.ln \
1876 /usr/lib/$(MACH64)/llib-ldevice.ln \
1877 /usr/lib/$(MACH64)/llib-ldevic.ln \
1878 /usr/lib/$(MACH64)/llib-ldevinfo.ln \
1879 /usr/lib/$(MACH64)/llib-ldl.ln \
1880 /usr/lib/$(MACH64)/llib-ldoor.ln \
1881 /usr/lib/$(MACH64)/llib-lefi.ln \
1882 /usr/lib/$(MACH64)/llib-lelf.ln \
1883 /usr/lib/$(MACH64)/llib-lgen.ln \
1884 /usr/lib/$(MACH64)/llib-linetutil.ln \
1885 /usr/lib/$(MACH64)/llib-lint1.ln \
1886 /usr/lib/$(MACH64)/llib-lkstat.ln \
1887 /usr/lib/$(MACH64)/llib-lmd5.ln \
1888 /usr/lib/$(MACH64)/llib-lnsl.ln \
1889 /usr/lib/$(MACH64)/llib-lnvpair.ln \
1890 /usr/lib/$(MACH64)/llib-lpam.ln \
1891 /usr/lib/$(MACH64)/llib-lposix4.ln \
1892 /usr/lib/$(MACH64)/llib-lpthread.ln \
1893 /usr/lib/$(MACH64)/llib-lresolv.ln \
1894 /usr/lib/$(MACH64)/llib-lrpcsvc.ln \
1895 /usr/lib/$(MACH64)/llib-lrt.ln \
1896 /usr/lib/$(MACH64)/llib-lrtld_db.ln \
1897 /usr/lib/$(MACH64)/llib-lscf.ln \
1898 /usr/lib/$(MACH64)/llib-lsec.ln \
1899 /usr/lib/$(MACH64)/llib-lsecdb.ln \
1900 /usr/lib/$(MACH64)/llib-lsendfile.ln \
1901 /usr/lib/$(MACH64)/llib-lsocket.ln \
1902 /usr/lib/$(MACH64)/llib-lsysevent.ln \
1903 /usr/lib/$(MACH64)/llib-ltermcap.ln \
1904 /usr/lib/$(MACH64)/llib-ltermcap.ln \
1905 /usr/lib/$(MACH64)/llib-lthread.ln \
1906 /usr/lib/$(MACH64)/llib-lthread_db.ln \
1907 /usr/lib/$(MACH64)/llib-ltsnet.ln \
1908 /usr/lib/$(MACH64)/llib-ltsol.ln \
1909 /usr/lib/$(MACH64)/llib-lumem.ln \

```

```

1910 /usr/lib/$(MACH64)/llib-luuid.ln \
1911 /usr/lib/$(MACH64)/llib-lxnet.ln \
1912 /usr/lib/$(MACH64)/llib-lzfs.ln \
1913 /usr/lib/$(MACH64)/nss_compat.so.1 \
1914 /usr/lib/$(MACH64)/nss_dns.so.1 \
1915 /usr/lib/$(MACH64)/nss_files.so.1 \
1916 /usr/lib/$(MACH64)/nss_nis.so.1 \
1917 /usr/lib/$(MACH64)/nss_user.so.1 \
1918 /usr/lib/fm/$(MACH64)/libfmevent.so \
1919 /usr/lib/fm/$(MACH64)/libfmevent.so.1 \
1920 /usr/lib/fm/$(MACH64)/llib-lfmevent.ln

1922 #
1923 # usr/src/Makefile uses INS.dir for any member of ROOTDIRS, the fact
1924 # these are symlinks to files has no bearing on this.
1925 #
1926 $(FILELINKS:%=$(ROOT%)):= \
1927     INS.dir= -$(RM) @$; $(SYMLINK) $(REALPATH) @$

```

```

*****
11422 Sat Jun 30 22:01:38 2012
new/usr/src/cmd/Makefile
2947 add pamconv to upgrade pam.conf at boot
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
23 # Copyright 2010 Nexenta Systems, Inc. All rights reserved.
24 # Copyright 2011 Joyent, Inc. All rights reserved.
25 # Copyright (c) 2012 by Delphix. All rights reserved.
26 #
27 include ../Makefile.master
28 #
29 #
30 # Note that the commands 'agents', 'lp', 'perl', and 'man' are first in
31 # the list, violating alphabetical order. This is because they are very
32 # long-running and should be given the most wall-clock time for a
33 # parallel build.
34 #
35 # Commands in the FIRST_SUBDIRS list are built before starting the build
36 # of other commands. Currently this includes only 'isaexec' and
37 # 'platexec'. This is necessary because $(ROOT)/usr/lib/isaexec or
38 # $(ROOT)/usr/lib/platexec must exist when some other commands are built
39 # because their 'make install' creates a hard link to one of them.
40 #
41 # Commands are listed one per line so that TeamWare can auto-merge most
42 # changes.
43 #
44 #
45 FIRST_SUBDIRS= \
46 isaexec \
47 platexec
48 #
49 COMMON_SUBDIRS= \
50 allocate \
51 availdevs \
52 lp \
53 perl \
54 man \
55 Adm \
56 abi \
57 adbgen \
58 acct \
59 acctadm \
60 arch \
61 asa

```

```

62 ast \
63 audio \
64 auths \
65 autopush \
66 avs \
67 awk \
68 awk_xpg4 \
69 backup \
70 banner \
71 bart \
72 basename \
73 bc \
74 bdiff \
75 beadm \
76 bfs \
77 bnu \
78 boot \
79 busstat \
80 cal \
81 calendar \
82 captainfo \
83 cat \
84 cdrw \
85 cfgadm \
86 checkeq \
87 checknr \
88 chgrp \
89 chmod \
90 chown \
91 chroot \
92 clear \
93 clinfo \
94 cmd-crypto \
95 cmd-inet \
96 col \
97 compress \
98 consadm \
99 coreadm \
100 cpio \
101 cpc \
102 cron \
103 crypt \
104 csh \
105 csplit \
106 ctrun \
107 ctstat \
108 ctwatch \
109 datadm \
110 date \
111 dc \
112 dd \
113 deroff \
114 devfsadm \
115 syseventd \
116 devctl \
117 devinfo \
118 devmgmt \
119 devprop \
120 dfs.cmds \
121 diff \
122 diff3 \
123 diffmk \
124 dircmp \
125 dirname \
126 dis \
127 diskmgtd \

```


new/usr/src/cmd/Makefile

```

128      dispadmin  //
129      dladm      //
130      dlstat     //
131      dmesg      //
132      dodatadm   //
133      dtrace     //
134      du         //
135      dumpadm    //
136      dumpcs     //
137      echo       //
138      ed         //
139      eeprom     //
140      egrep      //
141      eject      //
142      emul64ioct1 //
143      enhance    //
144      env        //
145      eqn        //
146      expand     //
147      expr       //
148      exstr      //
149      factor     //
150      false     //
151      fcinfo     //
152      fcoesvc   //
153      fdetach   //
154      fdformat  //
155      fdisk      //
156      filesync  //
157      fgrep     //
158      file       //
159      filebench //
160      find       //
161      flowadm   //
162      flowstat  //
163      fm        //
164      fmt       //
165      fmthard   //
166      fmtmsg    //
167      fold      //
168      format    //
169      fs.d      //
170      fstyp     //
171      fuser     //
172      fwflash   //
173      gcore     //
174      gencat    //
175      geniconvtbl //
176      genmsg    //
177      getconf   //
178      getdevpolicy //
179      getent    //
180      getfacl   //
181      getmajor  //
182      getopt    //
183      gettext   //
184      gettxt    //
185      grep      //
186      grep_xpg4 //
187      groups    //
188      grpck     //
189      gss       //
190      hal       //
191      halt      //
192      head      //
193      hostid    //

```

3

new/usr/src/cmd/Makefile

```

194      hostname //
195      hotplug   //
196      hotplugd //
197      hwdata    //
198      ibd_upgrade //
199      id        //
200      idmap     //
201      infocmp   //
202      init      //
203      initpkg   //
204      install.d //
205      intrd     //
206      intrstat //
207      ipcrm     //
208      ipcs      //
209      ipf       //
210      isainfo   //
211      isalist   //
212      itutools  //
213      iscsiadm  //
214      iscsid    //
215      iscsitsvc //
216      isns     //
217      itadm     //
218      java      //
219      kbd       //
220      keyserve  //
221      killall   //
222      krb5      //
223      ksh       //
224      kstat     //
225      kvmstat   //
226      last      //
227      lastcomm  //
228      latencytop //
229      ldap      //
230      ldapcachemgr //
231      lgrpinfo  //
232      line      //
233      link      //
234      dlmgmt    //
235      listen    //
236      loadkeys  //
237      locale    //
238      localedef //
239      lockstat  //
240      locator   //
241      lofiadm   //
242      logadm    //
243      logger    //
244      login     //
245      logins    //
246      look      //
247      ls        //
248      luxadm    //
249      lvm       //
250      mach      //
251      machid    //
252      mail      //
253      mailx     //
254      makekey   //
255      mdb       //
256      msg       //
257      mkdir     //
258      mkfifo    //
259      mkfile    //

```

4

new/usr/src/cmd/Makefile

260 mkmsgs //
261 mknod //
262 mkpwdict //
263 mktemp //
264 modload //
265 more //
266 mpathadm //
267 msgfmt //
268 msgid //
269 mt //
270 mv //
271 mvdir //
272 ndmpadm //
273 ndmpd //
274 ndmpstat //
275 netadm //
276 netfiles //
277 newform //
278 newgrp //
279 news //
280 newtask //
281 nice //
282 nl //
283 nlsadmin //
284 nohup //
285 nsadmin //
286 nscd //
287 oamuser //
288 oawk //
289 od //
290 pack //
291 pagesize //
292 **pamconv** //
293 passmgmt //
294 passwd //
295 pathchk //
296 pbind //
297 pcidr //
298 pcitool //
299 pfexec //
300 pfexecd //
301 pginfo //
302 pgstat //
303 pgrep //
304 picl //
305 plimit //
306 policykit //
307 pools //
308 power //
309 powertop //
310 ppgsz //
311 pg //
312 plockstat //
313 pr //
314 prctl //
315 print //
316 printf //
317 priocntl //
318 profiles //
319 projadd //
320 projects //
321 prstat //
322 prtconf //
323 prtdiag //
324 prtvtoc //
325 ps //

new/usr/src/cmd/Makefile

326 psradm //
327 psrinfo //
328 psrset //
329 ptools //
330 pwck //
331 pwconv //
332 pwd //
333 pyzfs //
334 raidctl //
335 ramdiskadm //
336 rcap //
337 rcm_daemon //
338 rctladm //
339 refer //
340 regcmp //
341 renice //
342 rexd //
343 rm //
344 rmdir //
345 rmformat //
346 rmmount //
347 rmt //
348 rmvolmgr //
349 roles //
350 rpcbind //
351 rpcgen //
352 rpcinfo //
353 rpcsvc //
354 runat //
355 sa //
356 saf //
357 sasinfo //
358 savecore //
359 sbdadm //
360 script //
361 scsi //
362 sdiff //
363 sdpadm //
364 sed //
365 sendmail //
366 setfacl //
367 setmnt //
368 setpgrp //
369 setuname //
370 sgs //
371 sh //
372 shcomp //
373 smbios //
374 smbstrv //
375 smserverd //
376 soelim //
377 sort //
378 spell //
379 split //
380 sqlite //
381 srchtxt //
382 srptadm //
383 srptsvc //
384 ssh //
385 stat //
386 stmfadm //
387 stmfproxy //
388 stmfsvc //
389 stmsboot //
390 streams //
391 strings //

new/usr/src/cmd/Makefile

```

392      su                \
393      sulogin           \
394      sunpc             \
395      svc               \
396      svr4pkg          \
397      swap              \
398      sync              \
399      sysdef            \
400      syseventadm      \
401      syslogd          \
402      tabs              \
403      tail              \
404      tar               \
405      tbl               \
406      tcopy            \
407      tcpd              \
408      terminfo         \
409      th_tools         \
410      tic               \
411      time              \
412      tip               \
413      tnf               \
414      touch             \
415      tput              \
416      tr                \
417      trapstat         \
418      troff            \
419      true              \
420      truss             \
421      tsol              \
422      tty               \
423      ttymon           \
424      tzreload         \
425      uadmin           \
426      ul                \
427      uname            \
428      units             \
429      unlink           \
430      unpack           \
431      userattr         \
432      users             \
433      utmp_update      \
434      utmpd            \
435      valtools         \
436      vgrind           \
437      vi                \
438      volcheck         \
439      volrmount        \
440      vrrpadm          \
441      vscan            \
442      vt                \
443      w                 \
444      wall              \
445      which             \
446      who               \
447      whodo            \
448      wracct           \
449      write            \
450      wusbadm          \
451      xargs            \
452      xstr              \
453      yes               \
454      ypcmd            \
455      yppasswd         \
456      zdb               \
457      zdump             \

```

7

new/usr/src/cmd/Makefile

```

458      zfs               \
459      zhack             \
460      zic               \
461      zinject          \
462      zlogin           \
463      zoneadm          \
464      zoneadmd         \
465      zonecfg          \
466      zonename         \
467      zpool            \
468      zlook            \
469      zonestat         \
470      zstreamdump     \
471      ztest            \

473 $(CLOSED_BUILD)COMMON_SUBDIRS += \
474     $(CLOSED)/cmd/iconv \
475     $(CLOSED)/cmd/ksh  \
476     $(CLOSED)/cmd/localedef \
477     $(CLOSED)/cmd/more_xpg4 \
478     $(CLOSED)/cmd/mtst \
479     $(CLOSED)/cmd/od   \
480     $(CLOSED)/cmd/patch \
481     $(CLOSED)/cmd/pax  \
482     $(CLOSED)/cmd/printf \
483     $(CLOSED)/cmd/sed  \
484     $(CLOSED)/cmd/sed_xpg4 \

486 i386_SUBDIRS= \
487     acpihpd \
488     addbadsec \
489     biosdev \
490     diskscan \
491     lms \
492     ntfsprogs \
493     parted \
494     rtc \
495     ucodeadm \
496     xvm \

498 sparc_SUBDIRS= \
499     cvcd \
500     dcs \
501     device_remap \
502     drd \
503     fruadm \
504     ldmad \
505     oplhpd \
506     prtdscp \
507     prtfru \
508     scadm \
509     sckmd \
510     sf880drd \
511     virtinfo \
512     vntsd \

514 #
515 # Commands that are messaged. Note that 'lp' and 'man' come first
516 # (see previous comment about 'lp' and 'man').
517 #
518 MSGSUBDIRS= \
519     lp \
520     man \
521     abi \
522     acctadm \
523     allocate \

```

8

new/usr/src/cmd/Makefile

```
524      asa //
525      audio //
526      audit //
527      auditconfig //
528      auditd //
529      auditrecord //
530      auditset //
531      auths //
532      autopush //
533      avs //
534      awk //
535      awk_xpg4 //
536      backup //
537      banner //
538      bart //
539      basename //
540      beadm //
541      bnu //
542      busstat //
543      cal //
544      cat //
545      cdrw //
546      cfgadm //
547      checkeq //
548      checknr //
549      chgrp //
550      chmod //
551      chown //
552      cmd-crypto //
553      cmd-inet //
554      col //
555      compress //
556      consadm //
557      coreadm //
558      cpio //
559      cpc //
560      cron //
561      csh //
562      csplit //
563      ctrun //
564      ctstat //
565      ctwatch //
566      datadm //
567      date //
568      dc //
569      dcs //
570      dd //
571      deroff //
572      devfsadm //
573      dfs.cmds //
574      diff //
575      diffmk //
576      dladm //
577      dlstat //
578      du //
579      dumpcs //
580      ed //
581      eject //
582      env //
583      eqn //
584      expand //
585      expr //
586      fcinfo //
587      fgrep //
588      file //
589      filesync //
```

new/usr/src/cmd/Makefile

```
590      find //
591      flowadm //
592      flowstat //
593      fm //
594      fold //
595      fs.d //
596      fwflash //
597      geniconvtbl //
598      genmsg //
599      getconf //
600      getent //
601      gettext //
602      gettxt //
603      grep //
604      grep_xpg4 //
605      grpck //
606      gss //
607      halt //
608      head //
609      hostname //
610      hotplug //
611      id //
612      idmap //
613      isaexec //
614      iscsiadm //
615      iscsid //
616      isns //
617      itadm //
618      kbd //
619      krb5 //
620      ksh //
621      kstat //
622      last //
623      ldap //
624      ldapcachemgr //
625      lgrpinfo //
626      locale //
627      lofiadm //
628      logadm //
629      logger //
630      logins //
631      ls //
632      luxadm //
633      lvm //
634      mailx //
635      mesg //
636      mkdir //
637      mkpwdict //
638      mktemp //
639      more //
640      mpathadm //
641      msgfmt //
642      mv //
643      ndmpadm //
644      ndmpstat //
645      newgrp //
646      newtask //
647      nice //
648      nohup //
649      oawk //
650      pack //
651      passwd //
652      passmgmt //
653      pathchk //
654      pfexec //
655      pg //
```

```

656      pgrep      \
657      picl       \
658      pools     \
659      power     \
660      pr        \
661      praudit   \
662      print     \
663      profiles  \
664      projadd   \
665      projects  \
666      prstat    \
667      prtdiag   \
668      ps        \
669      psrinfo   \
670      ptools    \
671      pwconv    \
672      pwd       \
673      pyzfs     \
674      raidctl   \
675      ramdiskadm \
676      rcap      \
677      rcm_daemon \
678      refer     \
679      regcmp    \
680      renice    \
681      roles     \
682      rm        \
683      rmdir     \
684      rmformat  \
685      rmmount   \
686      rmvolmgr  \
687      sasinfo   \
688      sbdadm    \
689      scadm     \
690      script    \
691      scsi      \
692      sdiff     \
693      sdpadm    \
694      sgs       \
695      sh        \
696      shcomp    \
697      smbstrv   \
698      sort      \
699      split     \
700      srptadm   \
701      ssh       \
702      stat      \
703      stmfadm   \
704      stmsboot  \
705      strings   \
706      su        \
707      svc       \
708      svr4pkg   \
709      swap      \
710      syseventadm \
711      syseventd \
712      tabs      \
713      tar       \
714      tbl       \
715      time     \
716      tnf      \
717      touch    \
718      tput     \
719      troff    \
720      tsol     \
721      tty      \

```

```

722      ttymon    \
723      tzreload  \
724      ul        \
725      uname     \
726      units    \
727      unlink   \
728      unpack   \
729      userattr  \
730      valtools  \
731      vgrind   \
732      vi        \
733      volcheck  \
734      volrmount \
735      vrrpadm   \
736      vscan    \
737      w         \
738      who      \
739      whodo    \
740      wracct   \
741      write    \
742      wusbadm  \
743      xargs    \
744      yppasswd \
745      zdump    \
746      zfs      \
747      zic      \
748      zlogin   \
749      zoneadm  \
750      zoneadmd \
751      zonecfg  \
752      zonename \
753      zpool    \
754      zonestat \

756 $(CLOSED_BUILD)MSGSUBDIRS += \
757   $(CLOSED)/cmd/iconv \
758   $(CLOSED)/cmd/ksh \
759   $(CLOSED)/cmd/localedef \
760   $(CLOSED)/cmd/more_xpg4 \
761   $(CLOSED)/cmd/od \
762   $(CLOSED)/cmd/patch \
763   $(CLOSED)/cmd/pax \
764   $(CLOSED)/cmd/printf \
765   $(CLOSED)/cmd/sed \
766   $(CLOSED)/cmd/sed_xpg4 \

768 sparc_MSGSUBDIRS= \
769   fruadm \
770   prtdscp \
771   prtfru \
772   virtinfo \
773   vntsd \

775 i386_MSGSUBDIRS= \
776   ucodeadm \

778 #
779 # commands that use dcgettext for localized time, LC_TIME
780 #
781 DCSUBDIRS= \
782   cal \
783   cfgadm \
784   diff \
785   ls \
786   pr \
787   ps \

```

new/usr/src/cmd/Makefile

```

788 tar \
789 w \
790 who \
791 whodo \
792 write

794 $(CLOSED_BUILD)DCSUBDIRS += \
795 $(CLOSED)/cmd/pax

797 #
798 # commands that belong only to audit.
799 #
800 AUDITSUBDIRS= \
801 amt \
802 audit \
803 audit_warn \
804 auditconfig \
805 auditd \
806 auditrecord \
807 auditreduce \
808 auditset \
809 auditstat \
810 praudit

812 #
813 # commands not owned by the systems group
814 #
815 BWOSDIRS=

818 all := TARGET = all
819 install := TARGET = install
820 clean := TARGET = clean
821 clobber := TARGET = clobber
822 lint := TARGET = lint
823 _msg := TARGET = _msg
824 _dc := TARGET = _dc

826 .KEEP_STATE:

828 SUBDIRS = $(COMMON_SUBDIRS) $($(_MACH)_SUBDIRS)

830 .PARALLEL: $(BWOSDIRS) $(SUBDIRS) $(MSGSUBDIRS) $(AUDITSUBDIRS)

832 all install clean clobber lint: $(FIRST_SUBDIRS) .WAIT $(SUBDIRS) \
833 $(AUDITSUBDIRS)

835 #
836 # Manifests cannot be checked in parallel, because we are using
837 # the global repository that is in $(SRC)/cmd/svc/seed/global.db.
838 # For this reason, to avoid .PARALLEL and .NO_PARALLEL conflicts,
839 # we spawn off a sub-make to perform the non-parallel 'make check'
840 #
841 check:
842 $(MAKE) -f Makefile.check check

844 #
845 # The .WAIT directive works around an apparent bug in parallel make.
846 # Evidently make was getting the target _msg vs. _dc confused under
847 # some level of parallelization, causing some of the _dc objects
848 # not to be built.
849 #
850 _msg: $(MSGSUBDIRS) $($(_MACH)_MSGSUBDIRS) .WAIT _dc

852 _dc: $(DCSUBDIRS)

```

13

new/usr/src/cmd/Makefile

```

854 #
855 # Dependencies
856 #
857 fs.d: fstyp
858 ksh: shcomp isaexec
859 mdb: terminfo
860 print: lp

862 $(FIRST_SUBDIRS) $(BWOSDIRS) $(SUBDIRS) $(AUDITSUBDIRS): FRC
863 @if [ -f $@/Makefile ]; then \
864 cd $@; pwd; $(MAKE) $(TARGET); \
865 else \
866 true; \
867 fi

869 FRC:

```

14

new/usr/src/cmd/pamconv/Makefile

1

1241 Sat Jun 30 22:01:38 2012

new/usr/src/cmd/pamconv/Makefile

2947 add pamconv to upgrade pam.conf at boot

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 # Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
22 #

24 PROG=          pamconv
25 MANIFEST=      pam-upgrade.xml
26 SVCMETHOD=     pam-upgrade

28 include ../Makefile.cmd
29 TEXT_DOMAIN=   SUNW_OST_ADMIN

31 FILEMODE=      0555

33 ROOTMANIFESTDIR= $(ROOTSVCSYSTEM)

35 CLOBBERFILES += $(SVCMETHOD)

37 .KEEP_STATE:

39 all: $(PROG)

41 install:       all $(ROOTUSRSBINPROG) $(ROOTMANIFEST) $(ROOTSVCMETHOD)

43 check:         $(CHKMANIFEST)

45 clean:

47 lint:         lint_PROG
48
49 include ../Makefile.targ
```

new/usr/src/cmd/pamconv/pam-upgrade.sh

1

1071 Sat Jun 30 22:01:38 2012

new/usr/src/cmd/pamconv/pam-upgrade.sh

2947 add pamconv to upgrade pam.conf at boot

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
23 #
24 #
25 # Convert an existing legacy pam.conf into /etc/pam.d shards
26 # and replace existing pam.conf with placeholder
27 /usr/sbin/pamconv -r
28 #
29 # Disable this service as the upgrade is done
30 /usr/sbin/svcadm disable "$SMF_FMRI"
```



```

*****
2399 Sat Jun 30 22:01:38 2012
new/usr/src/cmd/pamconv/pam-upgrade.xml
2947 add pamconv to upgrade pam.conf at boot
*****
1 <?xml version="1.0"?>
2 <!DOCTYPE service_bundle SYSTEM "/usr/share/lib/xml/dtd/service_bundle.dtd.1">
3 <!--
4 Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>

6 CDDL HEADER START

8 The contents of this file are subject to the terms of the
9 Common Development and Distribution License (the "License").
10 You may not use this file except in compliance with the License.

12 You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
13 or http://www.opensolaris.org/os/licensing.
14 See the License for the specific language governing permissions
15 and limitations under the License.

17 When distributing Covered Code, include this CDDL HEADER in each
18 file and include the License file at usr/src/OPENSOLARIS.LICENSE.
19 If applicable, add the following below this CDDL HEADER, with the
20 fields enclosed by brackets "[]" replaced with your own identifying
21 information: Portions Copyright [yyyy] [name of copyright owner]

23 CDDL HEADER END

25 NOTE: This service manifest is not editable; its contents will
26 be overwritten by package or patch operations, including
27 operating system upgrade. Make customizations in a different
28 file.

30 Service manifest for the PAM configuration upgrade (pamconv) service.
31 -->

33 <service_bundle type='manifest' name='SUNWcsr:pam-upgrade'>

35 <service
36   name='system/pam-upgrade'
37   type='service'
38   version='1'>

40   <create_default_instance enabled='true' />

42   <single_instance />

44   <dependency
45     name='filesystem'
46     grouping='require_all'
47     restart_on='none'
48     type='service'>
49     <service_fmri value='svc:/system/filesystem/local' />
50   </dependency>

52   <exec_method
53     type='method'
54     name='stop'
55     exec=':true'
56     timeout_seconds='60' >
57   </exec_method>

59   <exec_method
60     type='method'
61     name='start'

```

```

62     exec='/lib/svc/method/pamconv %m'
63     timeout_seconds='120' >
64   </exec_method>

66   <property_group
67     name='startd'
68     type='framework'>
69     <propval name='duration' type='astring' value='transient' />
70   </property_group>

72   <stability value='Unstable' />

74   <template>
75     <common_name>
76       <loctext xml:lang='C'>pam-upgrade</loctext>
77     </common_name>
78     <description>
79       <loctext xml:lang='C'>
80 pam-upgrade handles the conversion of a legacy, monolithic /etc/pam.conf file
81 into /etc/pam.d per-service shard files.
82       </loctext>
83     </description>
84     <documentation>
85       <manpage title='pam.conf' section='4'
86         manpath='/usr/share/man' />
87     </documentation>
88   </template>
89 </service>

91 </service_bundle>

```

```

*****
7859 Sat Jun 30 22:01:39 2012
new/usr/src/cmd/pamconv/pamconv.c
2947 add pamconv to upgrade pam.conf at boot
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
24  */

26 #include <stdlib.h>
27 #include <stdio.h>
28 #include <unistd.h>
29 #include <fcntl.h>
30 #include <errno.h>
31 #include <err.h>
32 #include <string.h>
33 #include <sys/types.h>
34 #include <sys/stat.h>
35 #include <sys/mman.h>

37 #define PAM_CONFIG "/etc/pam.conf"
38 #define PAM_CONFIG_DIR "/etc/pam.d"

40 #define SENTINEL0 " CDDL HEADER END"
41 #define SENTINEL1 " present in this file in previous releases are " \
42 "still acceptable."
43 #define SENTINEL2 " Authentication management"

45 #define LEGACY_CONTENTS "#\n" \
46 "# Legacy PAM Configuration\n" \
47 "#\n" \
48 "# The shipped PAM configuration has moved from " \
49 "the legacy " PAM_CONFIG "\n" \
50 "# to the new " PAM_CONFIG_DIR " model. See " \
51 "pam.conf(4) for more information.\n"

54 typedef struct pamline {
55     char *service;
56     char *copyfrom;
57     char *commentfrom;
58     struct pamline *next;
59 } pamline_t;

61 typedef struct servicelist {

```

```

62     char *service;
63     struct servicelist *next;
64 } servicelist_t;

67 static int fd;
68 static char *f;
69 static size_t flen;

71 static pamline_t *all = NULL;
72 static servicelist_t *services = NULL;

74 static char *pam_config = PAM_CONFIG;
75 static char *pam_config_dir = PAM_CONFIG_DIR;

77 static boolean_t preview = B_FALSE;
78 static boolean_t verbose = B_FALSE;
79 static boolean_t replace_original = B_FALSE;

81 static boolean_t onlycomments = B_TRUE;

84 static void
85 store_service(char *service)
86 {
87     servicelist_t *sl = calloc(1, sizeof (servicelist_t));
88     sl->service = service;
89     if (services == NULL) {
90         services = sl;
91     } else {
92         servicelist_t *t = services;
93         while (t != NULL) {
94             if (strcmp(t->service, sl->service) == 0)
95                 return;
96             if (t->next == NULL) {
97                 t->next = sl;
98                 break;
99             }
100            t = t->next;
101        }
102    }
103 }

105 static void
106 print_service(FILE *file, char *service)
107 {
108     pamline_t *t = all;
109     while (t != NULL) {
110         if (t->service && strcmp(t->service, service) == 0) {
111             if (t->copyfrom && fprintf(file, "%s",
112                 t->copyfrom) < 0)
113                 err(2, "could not write file");
114             if (t->commentfrom && fprintf(file, "%s",
115                 t->commentfrom) < 0)
116                 err(2, "could not write file");
117             if (fprintf(file, "\n") < 0)
118                 err(2, "could not write file");
119         }
120         t = t->next;
121     }
122 }

124 static void
125 write_service_file(char *service)
126 {
127     FILE *out;

```

```

128     char *path;
129
130     if (asprintf(&path, "%s/%s", pam_config_dir, service) < 0)
131         err(2, "could not asprintf");
132     if (verbose)
133         (void) fprintf(stderr, "service '%s' -> %s\n", service, path);
134     out = fopen(path, "w+");
135     if (out == NULL)
136         err(2, "could not open %s for write", path);
137     free(path);
138
139     print_service(out, service);
140
141     (void) fclose(out);
142 }
143
144 static void
145 write_legacy_file(void)
146 {
147     FILE *out;
148
149     if (verbose)
150         (void) fprintf(stderr, "replacing %s with placeholder file",
151             pam_config);
152
153     out = fopen(pam_config, "w+");
154     if (out == NULL)
155         err(2, "could not open %s for write", pam_config);
156
157     fprintf(out, LEGACY_CONTENTS);
158
159     (void) fclose(out);
160 }
161
162 static void
163 store_pamline(pamline_t *add)
164 {
165     if ((add->service && strlen(add->service) > 0) ||
166         (add->copyfrom && strlen(add->copyfrom) > 0))
167         onlycomments = B_FALSE;
168
169     /*
170      * If we find the end of various known header block strings,
171      * and we've thus far only seen a block comment, then turf
172      * all existing lines.
173      */
174     if (all && onlycomments && add->commentfrom &&
175         (strcmp(SENTINEL0, add->commentfrom) == 0 ||
176          strcmp(SENTINEL1, add->commentfrom) == 0 ||
177          strcmp(SENTINEL2, add->commentfrom) == 0)) {
178         pamline_t *pres, *t = all;
179         while (t != NULL) {
180             pres = t->next;
181             free(t);
182             t = pres;
183         }
184         all = NULL;
185         free(add);
186         return;
187     }
188
189     if (add->service != NULL)
190         store_service(add->service);
191
192     if (all == NULL) {
193         all = add;

```

```

194     } else {
195         pamline_t *t = all;
196         while (t != NULL) {
197             if (add->service != NULL && t->service == NULL) {
198                 /* apply this service to all unclaimed lines */
199                 t->service = add->service;
200             }
201             if (t->next == NULL) {
202                 t->next = add;
203                 break;
204             }
205             t = t->next;
206         }
207     }
208 }
209
210 static void
211 open_pam_conf(char *filename)
212 {
213     struct stat st;
214
215     fd = open(filename, O_RDONLY);
216     if (fd == -1) {
217         /* If there is no /etc/pam.conf, then silently exit. */
218         if (errno == ENOENT) {
219             if (verbose)
220                 (void) fprintf(stderr, "no %s found;"
221                     " not running.\n", pam_config);
222             exit(0);
223         } else {
224             err(2, "could not open %s", filename);
225         }
226     }
227
228     if (fstat(fd, &st) == -1)
229         err(2, "could not stat %s", filename);
230     flen = st.st_size;
231
232     f = mmap(NULL, flen, PROT_READ | PROT_WRITE, MAP_PRIVATE, fd, 0);
233     if (f == MAP_FAILED)
234         err(2, "could not mmap %s", filename);
235 }
236
237 static void
238 close_pam_conf(void)
239 {
240     (void) munmap(f, flen);
241     (void) close(fd);
242 }
243
244 static pamline_t *
245 new_pamline(void)
246 {
247     pamline_t *pl = calloc(1, sizeof (pamline_t));
248     if (pl == NULL)
249         abort();
250     return (pl);
251 }
252
253 static void
254 find_lines(void)
255 {
256     char *pos;
257     int state = 0;
258     pamline_t *t = new_pamline();
259     boolean_t prelinwhitespace = B_FALSE;

```

```

261     t->copyfrom = f;
262     for (pos = f; pos < f + flen; pos++) {
263         switch (state) {
264             case 0:
265                 switch (*pos) {
266                     case '#':
267                         *pos = '\0';
268
269                         t->commentfrom = pos + 1;
270
271                         prelimwhitespace = B_FALSE;
272                         state = 1;
273                         break;
274                     case ' ':
275                     case '\t':
276                         *pos = '\0';
277
278                         t->service = t->copyfrom;
279                         t->copyfrom = pos + 1;
280
281                         prelimwhitespace = B_TRUE;
282                         state = 1;
283                         break;
284                     case '\n':
285                         *pos = '\0';
286
287                         store_pamline(t);
288
289                         t = new_pamline();
290                         t->copyfrom = pos + 1;
291                         break;
292                 }
293             case 1:
294                 switch (*pos) {
295                     case ' ':
296                     case '\t':
297                         if (prelimwhitespace)
298                             t->copyfrom++;
299                         break;
300                     case '\n':
301                         *pos = '\0';
302
303                         store_pamline(t);
304
305                         t = new_pamline();
306                         t->copyfrom = pos + 1;
307
308                         state = 0;
309                         break;
310                     default:
311                         prelimwhitespace = B_FALSE;
312                 }
313             }
314     }
315 }
316 }
317
318 static void
319 output_services(void)
320 {
321     servicelist_t *s = services;
322
323     while (s != NULL) {
324         if (preview) {
325             (void) fprintf(stdout, "----- %s/%s :\n",

```

```

326         pam_config_dir, s->service);
327         print_service(stdout, s->service);
328         (void) fprintf(stdout, "\n");
329     } else {
330         write_service_file(s->service);
331     }
332     s = s->next;
333 }
334 }
335
336 int
337 main(int argc, char **argv)
338 {
339     int c;
340
341     while ((c = getopt(argc, argv, "nvri:o:")) != -1) {
342         switch (c) {
343             case 'v':
344                 verbose = B_TRUE;
345                 break;
346             case 'n':
347                 preview = B_TRUE;
348                 break;
349             case 'r':
350                 replace_original = B_TRUE;
351                 break;
352             case 'i':
353                 pam_config = optarg;
354                 break;
355             case 'o':
356                 pam_config_dir = optarg;
357                 break;
358             case ':':
359                 errx(1, "Option -%c requires an operand", optopt);
360                 break;
361             case '?':
362                 errx(1, "Unrecognised option: -%c", optopt);
363                 break;
364         }
365     }
366
367     if (verbose) {
368         (void) fprintf(stderr, "input file: %s\n", pam_config);
369         (void) fprintf(stderr, "output dir: %s\n", pam_config_dir);
370     }
371
372     open_pam_conf(pam_config);
373     find_lines();
374
375     /*
376      * If we haven't found any non-trivial lines, then exit now.
377      */
378     if (onlycomments) {
379         if (verbose)
380             (void) fprintf(stderr, "trivial %s detected; not "
381                             "running.\n", pam_config);
382         goto done;
383     }
384
385     output_services();
386
387     if (!preview && replace_original)
388         write_legacy_file();
389
390 done:
391     close_pam_conf();

```

```
392     return (0);  
393 }
```

new/usr/src/lib/libpam/Makefile

1

```

*****
1962 Sat Jun 30 22:01:39 2012
new/usr/src/lib/libpam/Makefile
2947 split up and ship pam.d/*, adjust Makefiles
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
26 #

28 include ../Makefile.lib

30 SUBDIRS= $(MACH)
31 $(BUILD64)SUBDIRS += $(MACH64)

33 TEXT_DOMAIN= SUNW_OST_SYSOSPAM
34 POFILE= libpam.po
35 MSGFILES= pam_framework.c

37 HDRS= pam_appl.h pam_modules.h pam_impl.h
38 Roothdrdir= $(ROOT)/usr/include/security
39 HDRDIR= .

41 # install pam.conf
42 ETCFILES= pam.conf \
43           pam.d/cron \
44           pam.d/cups \
45           pam.d/gdm-autologin \
46           pam.d/krlogin \
47           pam.d/krsh \
48           pam.d/ktelnet \
49           pam.d/login \
50           pam.d/other \
51           pam.d/passwd \
52           pam.d/ppp \
53           pam.d/rlogin \
54           pam.d/rsh
40 ETCFILES= pam.conf
55 ROOTETC= $(ROOT)/etc
56 IETCFILES= $(ETCFILES:%=$(ROOTETC)/%)

58 all := TARGET= all
59 clean := TARGET= clean
60 clobber := TARGET= clobber

```

new/usr/src/lib/libpam/Makefile

2

```

61 install := TARGET= install
62 lint := TARGET= lint

64 .KEEP_STATE:

66 all clean clobber install lint: $(SUBDIRS)

68 install_h: $(ROTHDRS)

70 install: $(IETCFILES)

72 check: $(CHECKHDRS)

74 $(POFILE): $(MSGFILES)
75     $(BUILDDPO.msgfiles)

77 _msg: $(MSGDOMAINPOFILE)

79 include $(SRC)/Makefile.msg.targ

81 $(SUBDIRS): FRC
82     @cd $@; pwd; $(MAKE) $(TARGET)

84 $(ROOTETC)/%: %
85     $(INS.file)
86 FRC:

88 include ../Makefile.targ

```

new/usr/src/lib/libpam/pam.conf

1

```
*****
173 Sat Jun 30 22:01:39 2012
new/usr/src/lib/libpam/pam.conf
2947 split up and ship pam.d/*, adjust Makefiles
*****
1 #
2 # Legacy PAM configuration
2 # CDDL HEADER START
3 #
4 # The shipped PAM configuration has moved from the legacy /etc/pam.conf
5 # to the new /etc/pam.d model. See pam.conf(4) for more information.
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2010 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # PAM configuration
26 #
27 # Unless explicitly defined, all services use the modules
28 # defined in the "other" section.
29 #
30 # Modules are defined with relative pathnames, i.e., they are
31 # relative to /usr/lib/security/$ISA. Absolute path names, as
32 # present in this file in previous releases are still acceptable.
33 #
34 # Authentication management
35 #
36 # login service (explicit because of pam_dial_auth)
37 #
38 login auth requisite pam_authtok_get.so.1
39 login auth required pam_dhkeys.so.1
40 login auth required pam_unix_cred.so.1
41 login auth required pam_unix_auth.so.1
42 login auth required pam_dial_auth.so.1
43 #
44 # rlogin service (explicit because of pam_rhost_auth)
45 #
46 rlogin auth sufficient pam_rhosts_auth.so.1
47 rlogin auth requisite pam_authtok_get.so.1
48 rlogin auth required pam_dhkeys.so.1
49 rlogin auth required pam_unix_cred.so.1
50 rlogin auth required pam_unix_auth.so.1
51 #
52 # Kerberized rlogin service
53 #
54 krlogin auth required pam_unix_cred.so.1
55 krlogin auth required pam_krb5.so.1
56 #
57 # rsh service (explicit because of pam_rhost_auth,
58 # and pam_unix_auth for meaningful pam_setcred)
```

new/usr/src/lib/libpam/pam.conf

2

```
59 #
60 rsh auth sufficient pam_rhosts_auth.so.1
61 rsh auth required pam_unix_cred.so.1
62 #
63 # Kerberized rsh service
64 #
65 krsh auth required pam_unix_cred.so.1
66 krsh auth required pam_krb5.so.1
67 #
68 # Kerberized telnet service
69 #
70 ktelnet auth required pam_unix_cred.so.1
71 ktelnet auth required pam_krb5.so.1
72 #
73 # PPP service (explicit because of pam_dial_auth)
74 #
75 ppp auth requisite pam_authtok_get.so.1
76 ppp auth required pam_dhkeys.so.1
77 ppp auth required pam_unix_cred.so.1
78 ppp auth required pam_unix_auth.so.1
79 ppp auth required pam_dial_auth.so.1
80 #
81 # GDM Autologin (explicit because of pam_allow). These need to be
82 # here as there is no mechanism for packages to amend pam.conf as
83 # they are installed.
84 #
85 gdm-autologin auth required pam_unix_cred.so.1
86 gdm-autologin auth sufficient pam_allow.so.1
87 #
88 # Default definitions for Authentication management
89 # Used when service name is not explicitly mentioned for authentication
90 #
91 other auth requisite pam_authtok_get.so.1
92 other auth required pam_dhkeys.so.1
93 other auth required pam_unix_cred.so.1
94 other auth required pam_unix_auth.so.1
95 #
96 # passwd command (explicit because of a different authentication module)
97 #
98 passwd auth required pam_passwd_auth.so.1
99 #
100 # cron service (explicit because of non-usage of pam_roles.so.1)
101 #
102 cron account required pam_unix_account.so.1
103 #
104 # cups service (explicit because of non-usage of pam_roles.so.1)
105 #
106 cups account required pam_unix_account.so.1
107 #
108 # GDM Autologin (explicit because of pam_allow) This needs to be here
109 # as there is no mechanism for packages to amend pam.conf as they are
110 # installed.
111 #
112 gdm-autologin account sufficient pam_allow.so.1
113 #
114 # Default definition for Account management
115 # Used when service name is not explicitly mentioned for account management
116 #
117 other account requisite pam_roles.so.1
118 other account required pam_unix_account.so.1
119 #
120 # Default definition for Session management
121 # Used when service name is not explicitly mentioned for session management
122 #
123 other session required pam_unix_session.so.1
124 #
```

```
125 # Default definition for Password management
126 # Used when service name is not explicitly mentioned for password management
127 #
128 other password required pam_dhkeys.so.1
129 other password requisite pam_authtok_get.so.1
130 other password requisite pam_authtok_check.so.1
131 other password required pam_authtok_store.so.1
132 #
133 # Support for Kerberos V5 authentication and example configurations can
134 # be found in the pam_krb5(5) man page under the "EXAMPLES" section.
135 #
```


new/usr/src/lib/libpam/pam.d/cron

1

113 Sat Jun 30 22:01:39 2012

new/usr/src/lib/libpam/pam.d/cron

2947 split up and ship pam.d/*, adjust Makefiles

1 #

2 # cron service (explicit because of non-usage of pam_roles.so.1)

3 #

4 cron account required pam_unix_account.so.1

new/usr/src/lib/libpam/pam.d/cups

1

113 Sat Jun 30 22:01:40 2012

new/usr/src/lib/libpam/pam.d/cups

2947 split up and ship pam.d/*, adjust Makefiles

```
1 #
2 # cups service (explicit because of non-usage of pam_roles.so.1)
3 #
4 cups    account required    pam_unix_account.so.1
```

new/usr/src/lib/libpam/pam.d/gdm-autologin

1

413 Sat Jun 30 22:01:40 2012

new/usr/src/lib/libpam/pam.d/gdm-autologin

2947 split up and ship pam.d/*, adjust Makefiles

```
1 #
2 # GDM Autologin (explicit because of pam_allow). These need to be
3 # here as historically there has been no mechanism for packages to
4 # amend pam.conf as they are installed. It will continue to be
5 # shipped until downstream distributions pick it up instead.
6 #
7 gdm-autologin auth required pam_unix_cred.so.1
8 gdm-autologin auth sufficient pam_allow.so.1
9 #
10 gdm-autologin account sufficient pam_allow.so.1
```

new/usr/src/lib/libpam/pam.d/krlogin

1

111 Sat Jun 30 22:01:40 2012

new/usr/src/lib/libpam/pam.d/krlogin

2947 split up and ship pam.d/*, adjust Makefiles

1 #

2 # Kerberized rlogin service

3 #

4 krlogin auth required pam_unix_cred.so.1

5 krlogin auth required pam_krb5.so.1

new/usr/src/lib/libpam/pam.d/krsh

1

102 Sat Jun 30 22:01:40 2012

new/usr/src/lib/libpam/pam.d/krsh

2947 split up and ship pam.d/*, adjust Makefiles

1 #

2 # Kerberized rsh service

3 #

4 krsh auth required pam_unix_cred.so.1

5 krsh auth required pam_krb5.so.1

new/usr/src/lib/libpam/pam.d/ktelnet

1

```
*****  
111 Sat Jun 30 22:01:40 2012  
new/usr/src/lib/libpam/pam.d/ktelnet  
2947 split up and ship pam.d/*, adjust Makefiles  
*****
```

```
1 #  
2 # Kerberized telnet service  
3 #  
4 ktelnet auth required      pam_unix_cred.so.1  
5 ktelnet auth required      pam_krb5.so.1
```

new/usr/src/lib/libpam/pam.d/login

1

256 Sat Jun 30 22:01:40 2012

new/usr/src/lib/libpam/pam.d/login

2947 split up and ship pam.d/*, adjust Makefiles

1 #

2 # login service (explicit because of pam_dial_auth)

3 #

4 login auth requisite pam_authok.get.so.1

5 login auth required pam_dhkeys.so.1

6 login auth required pam_unix_cred.so.1

7 login auth required pam_unix_auth.so.1

8 login auth required pam_dial_auth.so.1

new/usr/src/lib/libpam/pam.d/other

1

```
*****  
        615 Sat Jun 30 22:01:40 2012  
new/usr/src/lib/libpam/pam.d/other  
2947 split up and ship pam.d/*, adjust Makefiles  
*****
```

```
1 #  
2 # Default definitions  
3 #  
4 # Used when a module type (e.g. "auth") is not explicitly configured for a  
5 # particular service (e.g. "sudo").  
6 #  
7 other    auth requisite    pam_authtok_get.so.1  
8 other    auth required     pam_dhkeys.so.1  
9 other    auth required     pam_unix_cred.so.1  
10 other   auth required     pam_unix_auth.so.1  
11 #  
12 other   account requisite  pam_roles.so.1  
13 other   account required   pam_unix_account.so.1  
14 #  
15 other   session required   pam_unix_session.so.1  
16 #  
17 other   password required  pam_dhkeys.so.1  
18 other   password requisite pam_authtok_get.so.1  
19 other   password requisite pam_authtok_check.so.1  
20 other   password required  pam_authtok_store.so.1
```


new/usr/src/lib/libpam/pam.d/passwd

1

120 Sat Jun 30 22:01:41 2012

new/usr/src/lib/libpam/pam.d/passwd

2947 split up and ship pam.d/*, adjust Makefiles

```
1 #  
2 # passwd command (explicit because of a different authentication module)  
3 #  
4 passwd auth required          pam_passwd_auth.so.1
```

new/usr/src/lib/libpam/pam.d/ppp

1

```
*****  
244 Sat Jun 30 22:01:41 2012  
new/usr/src/lib/libpam/pam.d/ppp  
2947 split up and ship pam.d/*, adjust Makefiles  
*****
```

```
1 #  
2 # PPP service (explicit because of pam_dial_auth)  
3 #  
4 ppp      auth requisite      pam_authok_get.so.1  
5 ppp      auth required       pam_dhkeys.so.1  
6 ppp      auth required       pam_unix_cred.so.1  
7 ppp      auth required       pam_unix_auth.so.1  
8 ppp      auth required       pam_dial_auth.so.1
```

new/usr/src/lib/libpam/pam.d/rlogin

1

267 Sat Jun 30 22:01:41 2012

new/usr/src/lib/libpam/pam.d/rlogin

2947 split up and ship pam.d/*, adjust Makefiles

1 #

2 # rlogin service (explicit because of pam_rhost_auth)

3 #

4 rlogin auth sufficient pam_rhosts_auth.so.1

5 rlogin auth requisite pam_authok_get.so.1

6 rlogin auth required pam_dhkeys.so.1

7 rlogin auth required pam_unix_cred.so.1

8 rlogin auth required pam_unix_auth.so.1

new/usr/src/lib/libpam/pam.d/rsh

1

183 Sat Jun 30 22:01:41 2012

new/usr/src/lib/libpam/pam.d/rsh

2947 split up and ship pam.d/*, adjust Makefiles

1 #

2 # rsh service (explicit because of pam_rhost_auth,
3 # and pam_unix_auth for meaningful pam_setcred)

4 #

5 rsh auth sufficient pam_rhosts_auth.so.1

6 rsh auth required pam_unix_cred.so.1

```

*****
76611 Sat Jun 30 22:01:41 2012
new/usr/src/lib/libpam/pam_framework.c
2947 initial /etc/pam.d cut
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 */
25 * Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
26 */

28 #include <syslog.h>
29 #include <dldfn.h>
30 #include <sys/types.h>
31 #include <sys/stat.h>
32 #include <stdlib.h>
33 #include <strings.h>
34 #include <malloc.h>
35 #include <unistd.h>
36 #include <fcntl.h>
37 #include <errno.h>

39 #include <security/pam_appl.h>
40 #include <security/pam_modules.h>
41 #include <sys/mman.h>

43 #include <libintl.h>

45 #include "pam_impl.h"

47 static char *pam_snames [PAM_NUM_MODULE_TYPES] = {
48     PAM_ACCOUNT_NAME,
49     PAM_AUTH_NAME,
50     PAM_PASSWORD_NAME,
51     PAM_SESSION_NAME
52 };
    unchanged_portion_omitted_

71 /*
72 * This extra definition is needed in order to build this library
73 * on pre-64-bit-aware systems.
74 */
75 #if !defined(_LFS64_LARGEFILE)
76 #define stat64 stat
77 #endif /* !defined(_LFS64_LARGEFILE) */

```

```

79 /* functions to dynamically load modules */
80 static int load_modules(pam_handle_t *, int, char *, pamtab_t *);
81 static void *open_module(pam_handle_t *, char *);
82 static int load_function(void *, char *, int (**func)());

84 /* functions to read and store the pam.conf configuration file */
85 static int open_pam_conf(struct pam_fh **, pam_handle_t *, char *, int);
86 static void close_pam_conf(struct pam_fh *);
87 static int read_pam_conf(pam_handle_t *, char *, char *, int);
88 static int read_pam_conf(pam_handle_t *, char *);
89 static int get_pam_conf_entry(struct pam_fh *, pam_handle_t *,
90     pamtab_t **, char *, int);
91 static int read_pam_conf(pam_handle_t **, pamtab_t **);
92 static char *read_next_token(char **);
93 static char *nextline(struct pam_fh *, pam_handle_t *, int *);
94 static int verify_pam_conf(pamtab_t *, char *);

96 /* functions to clean up and free memory */
97 static void clean_up(pam_handle_t *);
98 static void free_pamconf(pamtab_t *);
99 static void free_pam_conf_info(pam_handle_t *);
100 static void free_env(env_list *);

100 /* convenience functions for I18N/L10N communication */

102 static void free_resp(int, struct pam_response *);
103 static int do_conv(pam_handle_t *, int, int,
104     char messages[PAM_MAX_NUM_MSG][PAM_MAX_MSG_SIZE], void *,
105     struct pam_response **);

107 static int log_priority; /* pam_trace syslog priority & facility */
108 static int pam_debug = 0;

110 static char *
111 pam_trace_iname(int item_type, char *iname_buf)
112 {
113     char *name;

115     if (item_type <= 0 ||
116         item_type >= PAM_MAX_ITEMS ||
117         (name = pam_inames[item_type]) == NULL) {
118         (void) sprintf(iname_buf, "%d", item_type);
119         return (iname_buf);
120     }
121     return (name);
122 }
    unchanged_portion_omitted_

1002 /*
1003 * Run through the PAM service module stack for the given module type.
1004 */
1005 static int
1006 run_stack(pam_handle_t *pamh, int flags, int type, int def_err, int ind,
1007     char *function_name)
1008 {
1009     int err = PAM_SYSTEM_ERR; /* preset */
1010     int optional_error = 0;
1011     int required_error = 0;
1012     int success = 0;
1013     pamtab_t *modulep;
1014     int (*sm_func)();
1015     char *service;
1016     char *service_file;
1017     int shardfile = 1;

```

```

1019     if (pamh == NULL)
1020         return (PAM_SYSTEM_ERR);

1022     (void) pam_get_item(pamh, PAM_SERVICE, (void **)&service);
1023     if (service == NULL || *service == '\0') {
1024         __pam_log(LOG_AUTH | LOG_ERR, "No service name");
1025         return (PAM_SYSTEM_ERR);
1026     }

1028     /* read initial entries from /etc/pam.d/<service> */
1029     if (asprintf(&service_file, "%s%s", PAM_CONFIG_DIR, service) < 0)
1030         return (PAM_SYSTEM_ERR);
1031     if ((err = read_pam_conf(pamh, service_file, service, shardfile))
1032         != PAM_SUCCESS) {
1033         shardfile = 0;
1034         pam_trace(PAM_DEBUG_CONF, "run_stack[%d:%s]: can't read "
1035             "service-specific conf %s", pamh->include_depth,
1036             pam_trace_cname(pamh), modulep->module_path, service_file);

1038         /* fall back to reading initial entries from pam.conf */
1039         if ((err = read_pam_conf(pamh, PAM_CONFIG, service, shardfile))
1040             != PAM_SUCCESS) {
1041             /* read initial entries from pam.conf */
1042             if ((err = read_pam_conf(pamh, PAM_CONFIG)) != PAM_SUCCESS) {
1043                 return (err);
1044             }
1045             free(service_file);
1046             service_file = NULL;

1047         if ((modulep =
1048             pamh->pam_conf_info[pamh->include_depth][type]) == NULL) {
1049             __pam_log(LOG_AUTH | LOG_ERR, "%s no initial module present",
1050                 pam_trace_cname(pamh));
1051             goto exit_return;
1052         }

1054         pamh->pam_inmodule = WO_OK;    /* OK to get AUTHOK */
1055     include:
1056         pam_trace(PAM_DEBUG_MODULE,
1057             "[%d:%s]:run_stack:%s(%p, %x): %s", pamh->include_depth,
1058             pam_trace_cname(pamh), function_name, (void *)pamh, flags,
1059             modulep ? modulep->module_path : "NULL");

1061     while (modulep != NULL) {
1062         if (modulep->pam_flag & PAM_INCLUDE) {
1063             /* save the return location */
1064             pamh->pam_conf_modulep[pamh->include_depth] =
1065                 modulep->next;
1066             pam_trace(PAM_DEBUG_MODULE,
1067                 "setting for include[%d:%p]",
1068                 pamh->include_depth, (void *)modulep->next);
1069             if (pamh->include_depth++ >= PAM_MAX_INCLUDE) {
1070                 __pam_log(LOG_AUTH | LOG_ERR,
1071                     "run_stack: includes too deep %d "
1072                     "found trying to include %s from %s, %d "
1073                     "allowed", pamh->include_depth,
1074                     modulep->module_path, pamh->pam_conf_name
1075                     [PAM_MAX_INCLUDE] == NULL ? "NULL" :
1076                     pamh->pam_conf_name[PAM_MAX_INCLUDE],
1077                     PAM_MAX_INCLUDE);
1078                 goto exit_return;
1079             }
1080             if ((err = read_pam_conf(pamh,
1081                 modulep->module_path, service, shardfile))

```

```

1082         != PAM_SUCCESS) {
1083             modulep->module_path)) != PAM_SUCCESS) {
1084                 __pam_log(LOG_AUTH | LOG_ERR,
1085                     "run_stack[%d:%s]: can't read included "
1086                     "conf %s", pamh->include_depth,
1087                     pam_trace_cname(pamh),
1088                     modulep->module_path);
1089                 goto exit_return;
1090             }
1091             if ((modulep = pamh->pam_conf_info
1092                 [pamh->include_depth][type]) == NULL) {
1093                 __pam_log(LOG_AUTH | LOG_ERR,
1094                     "run_stack[%d:%s]: no include module "
1095                     "present %s", pamh->include_depth,
1096                     pam_trace_cname(pamh), function_name);
1097                 goto exit_return;
1098             }
1099             if (modulep->pam_flag & PAM_INCLUDE) {
1100                 /* first line another include */
1101                 goto include;
1102             }
1103             pam_trace(PAM_DEBUG_DEFAULT, "include[%d:%s]"
1104                 "(%p, %s)=%s", pamh->include_depth,
1105                 pam_trace_cname(pamh), (void *)pamh,
1106                 function_name, modulep->module_path);
1107             if ((err = load_modules(pamh, type, sm_name(ind),
1108                 pamh->pam_conf_info
1109                 [pamh->include_depth][type]) != PAM_SUCCESS) {
1110                 pam_trace(PAM_DEBUG_DEFAULT,
1111                     "[%d:%s]:%s(%p, %x): load_modules failed",
1112                     pamh->include_depth, pam_trace_cname(pamh),
1113                     function_name, (void *)pamh, flags);
1114                 goto exit_return;
1115             }
1116             if ((modulep = pamh->pam_conf_info
1117                 [pamh->include_depth][type]) == NULL) {
1118                 __pam_log(LOG_AUTH | LOG_ERR,
1119                     "%s no initial module present",
1120                     pam_trace_cname(pamh));
1121                 goto exit_return;
1122             }
1123             } else if ((err = load_modules(pamh, type, sm_name(ind),
1124                 modulep)) != PAM_SUCCESS) {
1125                 pam_trace(PAM_DEBUG_DEFAULT,
1126                     "[%d:%s]:%s(%p, %x): load_modules failed",
1127                     pamh->include_depth, pam_trace_cname(pamh),
1128                     function_name, (void *)pamh, flags);
1129                 goto exit_return;
1130             } /* PAM_INCLUDE */
1131             sm_func = func(modulep, ind);
1132             if (sm_func) {
1133                 err = sm_func(pamh, flags, modulep->module_argc,
1134                     (const char **)modulep->module_argv);

1135         pam_trace(PAM_DEBUG_MODULE,
1136             "[%d:%s]:%s(%p, %x): %s returned %s",
1137             pamh->include_depth, pam_trace_cname(pamh),
1138             function_name, (void *)pamh, flags,
1139             modulep->module_path, pam_strerror(pamh, err));

1141     switch (err) {
1142     case PAM_IGNORE:
1143         /* do nothing */
1144         break;
1145     case PAM_SUCCESS:
1146         if ((modulep->pam_flag & PAM_SUFFI_BIND) &&

```

```

1147         !required_error) {
1148             pamh->pam_inmodule = RW_OK;
1149             pam_trace(PAM_DEBUG_MODULE,
1150                 "[%d:%s]:%s(%p, %x): %s: success",
1151                 pamh->include_depth,
1152                 pam_trace_cname(pamh),
1153                 function_name, (void *)pamh, flags,
1154                 (modulep->pam_flag & PAM_BINDING) ?
1155                 PAM_BINDING_NAME :
1156                 PAM_SUFFICIENT_NAME);
1157             goto exit_return;
1158         }
1159         success = 1;
1160         break;
1161     case PAM_TRY_AGAIN:
1162         /*
1163          * We need to return immediately, and
1164          * we shouldn't reset the AUTHTOK item
1165          * since it is not an error per-se.
1166          */
1167         pamh->pam_inmodule = RW_OK;
1168         pam_trace(PAM_DEBUG_MODULE,
1169             "[%d:%s]:%s(%p, %x): TRY_AGAIN: %s",
1170             pamh->include_depth, pam_trace_cname(pamh),
1171             function_name, (void *)pamh, flags,
1172             pam_strerror(pamh, required_error ?
1173             required_error : err));
1174         err = required_error ? required_error : err;
1175         goto exit_return;
1176     default:
1177         if (modulep->pam_flag & PAM_REQUISITE) {
1178             pamh->pam_inmodule = RW_OK;
1179             pam_trace(PAM_DEBUG_MODULE,
1180                 "[%d:%s]:%s(%p, %x): requisite: %s",
1181                 pamh->include_depth,
1182                 pam_trace_cname(pamh),
1183                 function_name, (void *)pamh, flags,
1184                 pam_strerror(pamh,
1185                 required_error ? required_error :
1186                 err));
1187             err = required_error ?
1188                 required_error : err;
1189             goto exit_return;
1190         } else if (modulep->pam_flag & PAM_REQRD_BIND) {
1191             if (!required_error)
1192                 required_error = err;
1193         } else {
1194             if (!optional_error)
1195                 optional_error = err;
1196         }
1197         pam_trace(PAM_DEBUG_DEFAULT,
1198             "[%d:%s]:%s(%p, %x): error %s",
1199             pamh->include_depth, pam_trace_cname(pamh),
1200             function_name, (void *)pamh, flags,
1201             pam_strerror(pamh, err));
1202         break;
1203     }
1204 }
1205     modulep = modulep->next;
1206 }

1208 pam_trace(PAM_DEBUG_MODULE, "[%d:%s]:stack_end:%s(%p, %x): %s %s: %s",
1209     pamh->include_depth, pam_trace_cname(pamh), function_name,
1210     (void *)pamh, flags, pamh->include_depth ? "included" : "final",
1211     required_error ? "required" : success ? "success" :
1212     optional_error ? "optional" : "default",

```

```

1213         pam_strerror(pamh, required_error ? required_error :
1214         success ? PAM_SUCCESS : optional_error ? optional_error : def_err));
1215     if (pamh->include_depth > 0) {
1216         free_pam_conf_info(pamh);
1217         pamh->include_depth--;
1218         /* continue at next entry */
1219         modulep = pamh->pam_conf_modulep[pamh->include_depth];
1220         pam_trace(PAM_DEBUG_MODULE, "looping for include[%d:%p]",
1221             pamh->include_depth, (void *)modulep);
1222         goto include;
1223     }
1224     free_pam_conf_info(pamh);
1225     pamh->pam_inmodule = RW_OK;
1226     if (required_error != 0)
1227         return (required_error);
1228     else if (success != 0)
1229         return (PAM_SUCCESS);
1230     else if (optional_error != 0)
1231         return (optional_error);
1232     else
1233         return (def_err);

1235 exit_return:
1236     /*
1237      * All done at whatever depth we're at.
1238      * Go back to not having read /etc/pam.conf
1239      */
1240     while (pamh->include_depth > 0) {
1241         free_pam_conf_info(pamh);
1242         pamh->include_depth--;
1243     }
1244     free_pam_conf_info(pamh);
1245     pamh->pam_inmodule = RW_OK;
1246     return (err);
1247 }
1248
1249 _____unchanged_portion_omitted_____

1931 /*
1932  * Routines to read the pam.conf configuration file
1933  */

1935 /*
1936  * open_pam_conf - open the pam.conf config file
1937  */

1939 static int
1940 open_pam_conf(struct pam_fh **pam_fh, pam_handle_t *pamh, char *config,
1941     int shardfile)
1942 open_pam_conf(struct pam_fh **pam_fh, pam_handle_t *pamh, char *config)
1943 {
1944     struct stat64 stb;
1945     int fd;

1946     if ((fd = open(config, O_RDONLY)) == -1) {
1947         if (!shardfile)
1948             __pam_log(LOG_AUTH | LOG_ALERT,
1949                 "open_pam_conf[%d:%s]: open(%s) failed: %s",
1950                 pamh->include_depth, pam_trace_cname(pamh), config,
1951                 strerror(errno));
1952         return (0);
1953     }
1954     /* Check the ownership and file modes */
1955     if (fstat64(fd, &stb) < 0) {
1956         __pam_log(LOG_AUTH | LOG_ALERT,
1957             "open_pam_conf[%d:%s]: stat(%s) failed: %s",
1958             pamh->include_depth, pam_trace_cname(pamh), config,

```



```

2091         tpament =
2092             pamh->pam_conf_info[i][pamentp->pam_type];
2093         while (tpament->next != NULL) {
2094             tpament = tpament->next;
2095         }
2096         tpament->next = pamentp;
2097     }
2098 } else if (service_found[pamentp->pam_type + 1] == 0) {
2099     /* See if "other" entry available and valid */
2100     if (verify_pam_conf(pamentp, "other")) {
2101         pam_trace(PAM_DEBUG_CONF,
2102             "read_pam_conf(%p): bad entry error %s "
2103             "\"other\"[%d:%s]",
2104             (void *)pamh, service, i,
2105             pam_trace_cname(pamh));
2106         error = PAM_SYSTEM_ERR;
2107         free_pamconf(pamentp);
2108         goto out;
2109     }
2110     if (strcasecmp(pamentp->pam_service, "other") == 0) {
2111         pam_trace(PAM_DEBUG_CONF,
2112             "read_pam_conf(%p): processing "
2113             "\"other\"[%d:%s]", (void *)pamh, i,
2114             pam_trace_cname(pamh));
2115         if ((tpament = pamh->pam_conf_info[i]
2116             [pamentp->pam_type]) == NULL) {
2117             /* add first "other" entry */
2118             pam_trace(PAM_DEBUG_CONF,
2119                 "read_pam_conf(%p): adding 1st "
2120                 "other[%d:%s][%s]", (void *)pamh, i,
2121                 pam_trace_cname(pamh),
2122                 pam_snames[pamentp->pam_type]);
2123             pamh->pam_conf_info[i]
2124                 [pamentp->pam_type] = pamentp;
2125         } else {
2126             /* append more "other" entries */
2127             pam_trace(PAM_DEBUG_CONF,
2128                 "read_pam_conf(%p): adding more "
2129                 "other[%d:%s][%s]", (void *)pamh, i,
2130                 pam_trace_cname(pamh),
2131                 pam_snames[pamentp->pam_type]);
2132             while (tpament->next != NULL) {
2133                 tpament = tpament->next;
2134             }
2135             tpament->next = pamentp;
2136         }
2137     } else {
2138         /* irrelevant entry */
2139         free_pamconf(pamentp);
2140     }
2141 } else {
2142     /* irrelevant entry */
2143     free_pamconf(pamentp);
2144 }
2145 }
2147 /*
2148  * If this is a shard file and we have no entries for this
2149  * module type (e.g. "account"), then generate a single
2150  * "include" rule for the shard file "other" as a fallback.
2151  */
2152 if (shardfile && strcasecmp(service, "other") != 0) {
2153     for (j = 0; j < PAM_NUM_MODULE_TYPES; j++) {
2154         if (service_found[j + 1] == 0 &&
2155             pamh->pam_conf_info[i][j] == NULL) {
2156             pantab_t *pe = calloc(1, sizeof(pantab_t));

```

```

2158         pam_trace(PAM_DEBUG_CONF, "read_pam_conf(%p):"
2159             "falling back to \"other\" for module "
2160             "type \"%s\" in service \"%s\"",
2161             (void *)pamh, pam_snames[j], service);
2162         if (pe == NULL) {
2163             error = PAM_SYSTEM_ERR;
2164             __pam_log(LOG_AUTH | LOG_ERR,
2165                 "calloc: out of memory");
2166             goto out;
2167         }
2168         pe->pam_service = strdup(service);
2169         pe->pam_type = j;
2170         pe->pam_flag = PAM_INCLUDE;
2171         if (asprintf(&pe->module_path, "%s%s",
2172             PAM_CONFIG_DIR, "other") < 0) {
2173             free(pe);
2174             error = PAM_SYSTEM_ERR;
2175             __pam_log(LOG_AUTH | LOG_ERR,
2176                 "asprintf: out of memory");
2177             goto out;
2178         }
2179         pamh->pam_conf_info[i][j] = pe;
2180     }
2181 }
2182 }
2184 out:
2185     (void) close_pam_conf(pam_fh);
2186     if (error != PAM_SUCCESS)
2187         free_pam_conf_info(pamh);
2188     return (error);
2189 }
2191 /*
2192  * get_pam_conf_entry - get a pam.conf entry
2193  */
2195 static int
2196 get_pam_conf_entry(struct pam_fh *pam_fh, pam_handle_t *pamh, pantab_t **pam,
2197     char *service, int shardfile)
2198 get_pam_conf_entry(struct pam_fh *pam_fh, pam_handle_t *pamh, pantab_t **pam)
2199 {
2200     char *cp, *arg;
2201     int argc;
2202     char *tmp, *tmp_free;
2203     int i;
2204     char *current_line = NULL;
2205     int error = PAM_SYSTEM_ERR; /* preset to error */
2206     err;
2207
2208     /* get the next line from pam.conf */
2209     if ((cp = nextline(pam_fh, pamh, &err)) == NULL) {
2210         /* no more lines in pam.conf ==> return */
2211         error = PAM_SUCCESS;
2212         *pam = NULL;
2213         goto out;
2214     }
2215
2216     if ((*pam = calloc(1, sizeof(pantab_t))) == NULL) {
2217         __pam_log(LOG_AUTH | LOG_ERR, "strdup: out of memory");
2218         goto out;
2219     }
2220
2221     /* copy full line for error reporting */
2222     if ((current_line = strdup(cp)) == NULL) {

```

```

2222     __pam_log(LOG_AUTH | LOG_ERR, "strdup: out of memory");
2223     goto out;
2224 }

2226 pam_trace(PAM_DEBUG_CONF,
2227     "pam.conf[%s] entry: \t%s", pam_trace_cname(pamh), current_line);

2229 if (shardfile) {
2230     /*
2231      * If this is an /etc/pam.d shard file, then the service name
2232      * comes from the file name of the shard.
2233      */
2234     if (((*pam)->pam_service = strdup(service)) == 0) {
2235         __pam_log(LOG_AUTH | LOG_ERR, "strdup: out of memory");
2236         goto out;
2237     }
2238 } else {
2239     /* get service name (e.g. login, su, passwd) */
2240     if ((arg = read_next_token(&cp)) == 0) {
2241         __pam_log(LOG_AUTH | LOG_CRIT,
2242             "illegal pam.conf[%s] entry: %s: missing SERVICE "
2243             "NAME", pam_trace_cname(pamh), current_line);
2244         "illegal pam.conf[%s] entry: %s: missing SERVICE NAME",
2245         pam_trace_cname(pamh), current_line);
2246         goto out;
2247     }
2248     if (((*pam)->pam_service = strdup(arg)) == 0) {
2249         __pam_log(LOG_AUTH | LOG_ERR, "strdup: out of memory");
2250         goto out;
2251     }
2252 }

2252 /* get module type (e.g. authentication, acct mgmt) */
2253 if ((arg = read_next_token(&cp)) == 0) {
2254     __pam_log(LOG_AUTH | LOG_CRIT,
2255         "illegal pam.conf[%s] entry: %s: missing MODULE TYPE",
2256         pam_trace_cname(pamh), current_line);
2257     (*pam)->pam_type = -1; /* 0 is a valid value */
2258     goto getflag;
2259 }
2260 if (strncasecmp(arg, PAM_AUTH_NAME) == 0) {
2261     (*pam)->pam_type = PAM_AUTH_MODULE;
2262 } else if (strncasecmp(arg, PAM_ACCOUNT_NAME) == 0) {
2263     (*pam)->pam_type = PAM_ACCOUNT_MODULE;
2264 } else if (strncasecmp(arg, PAM_SESSION_NAME) == 0) {
2265     (*pam)->pam_type = PAM_SESSION_MODULE;
2266 } else if (strncasecmp(arg, PAM_PASSWORD_NAME) == 0) {
2267     (*pam)->pam_type = PAM_PASSWORD_MODULE;
2268 } else {
2269     /* error */
2270     __pam_log(LOG_AUTH | LOG_CRIT,
2271         "illegal pam.conf[%s] entry: %s: invalid module "
2272         "type: %s", pam_trace_cname(pamh), current_line, arg);
2273     (*pam)->pam_type = -1; /* 0 is a valid value */
2274 }

2276 getflag:
2277 /* get pam flag (e.g., requisite, required, sufficient, optional) */
2278 if ((arg = read_next_token(&cp)) == 0) {
2279     __pam_log(LOG_AUTH | LOG_CRIT,
2280         "illegal pam.conf[%s] entry: %s: missing CONTROL FLAG",
2281         pam_trace_cname(pamh), current_line);
2282     goto getpath;
2283 }
2284 if (strncasecmp(arg, PAM_BINDING_NAME) == 0) {
2285     (*pam)->pam_flag = PAM_BINDING;

```

```

2286     } else if (strncasecmp(arg, PAM_INCLUDE_NAME) == 0) {
2287         (*pam)->pam_flag = PAM_INCLUDE;
2288     } else if (strncasecmp(arg, PAM_OPTIONAL_NAME) == 0) {
2289         (*pam)->pam_flag = PAM_OPTIONAL;
2290     } else if (strncasecmp(arg, PAM_REQUIRED_NAME) == 0) {
2291         (*pam)->pam_flag = PAM_REQUIRED;
2292     } else if (strncasecmp(arg, PAM_REQUISITE_NAME) == 0) {
2293         (*pam)->pam_flag = PAM_REQUISITE;
2294     } else if (strncasecmp(arg, PAM_SUFFICIENT_NAME) == 0) {
2295         (*pam)->pam_flag = PAM_SUFFICIENT;
2296     } else {
2297         /* error */
2298         __pam_log(LOG_AUTH | LOG_CRIT,
2299             "illegal pam.conf[%s] entry: %s",
2300             pam_trace_cname(pamh), current_line);
2301         __pam_log(LOG_AUTH | LOG_CRIT,
2302             "\tinvalid control flag: %s", arg);
2303     }
2304 }

2305 getpath:
2306 /* get module path (e.g. /usr/lib/security/pam_unix_auth.so.1) */
2307 if ((arg = read_next_token(&cp)) == 0) {
2308     __pam_log(LOG_AUTH | LOG_CRIT,
2309         "illegal pam.conf[%s] entry: %s: missing MODULE PATH",
2310         pam_trace_cname(pamh), current_line);
2311     error = PAM_SUCCESS; /* success */
2312     goto out;
2313 }
2314 if (arg[0] != '/') {
2315     int ret;
2316     size_t len;
2317     /*
2318      * If module path does not start with "/", then
2319      * prepend PAM_LIB_DIR (/usr/lib/security/).
2320      */
2321     /* sizeof (PAM_LIB_DIR) has room for '\0' */
2322     len = sizeof (PAM_LIB_DIR) + sizeof (PAM_ISA_DIR) + strlen(arg);
2323     if (((*pam)->module_path = malloc(len)) == NULL) {
2324         __pam_log(LOG_AUTH | LOG_ERR, "strdup: out of memory");
2325         goto out;
2326     }
2327     if ((*pam)->pam_flag & PAM_INCLUDE) {
2328         /*
2329          * If this is an /etc/pam.d shard, we want to get
2330          * included files from /etc/pam.d rather than
2331          * /usr/lib/security.
2332          */
2333         ret = asprintf(&(*pam)->module_path, "%s%s",
2334             (shardfile ? PAM_CONFIG_DIR : PAM_LIB_DIR), arg);
2335         (void) snprintf((*pam)->module_path, len, "%s%s",
2336             PAM_LIB_DIR, arg);
2337     } else {
2338         ret = asprintf(&(*pam)->module_path, "%s%s%s",
2339             (void) snprintf((*pam)->module_path, len, "%s%s%s",
2340                 PAM_LIB_DIR, PAM_ISA_DIR, arg);
2341     }
2342     if (ret < 0) {
2343         __pam_log(LOG_AUTH | LOG_ERR,
2344             "asprintf: out of memory");
2345         goto out;
2346     }
2347 } else {
2348     /* Full path provided for module */
2349     char *isa;
2350 }

2351 /* Check for Instruction Set Architecture indicator */

```

```

2342     if ((isa = strstr(arg, PAM_ISA)) != NULL) {
2343         size_t len;
2344         len = strlen(arg) - (sizeof (PAM_ISA)-1) +
2345             sizeof (PAM_ISA_DIR);
2346
2347         /* substitute the architecture dependent path */
2348         if (((*pam)->module_path = malloc(len)) == NULL) {
2349             __pam_log(LOG_AUTH | LOG_ERR,
2350                 "strdup: out of memory");
2351             goto out;
2352         }
2353         *isa = '\000';
2354         isa += strlen(PAM_ISA);
2355         (void) snprintf((*pam)->module_path, len, "%s%s%s",
2356             arg, PAM_ISA_DIR, isa);
2357     } else if (((*pam)->module_path = strdup(arg)) == 0) {
2358         __pam_log(LOG_AUTH | LOG_ERR, "strdup: out of memory");
2359         goto out;
2360     }
2361 }
2362
2363 /* count the number of module-specific options first */
2364 argc = 0;
2365 if ((tmp = strdup(cp)) == NULL) {
2366     __pam_log(LOG_AUTH | LOG_ERR, "strdup: out of memory");
2367     goto out;
2368 }
2369 tmp_free = tmp;
2370 for (arg = read_next_token(&tmp); arg; arg = read_next_token(&tmp))
2371     argc++;
2372 free(tmp_free);
2373
2374 /* allocate array for the module-specific options */
2375 if (argc > 0) {
2376     if (((*pam)->module_argv =
2377         calloc(argc+1, sizeof (char *))) == 0) {
2378         __pam_log(LOG_AUTH | LOG_ERR, "calloc: out of memory");
2379         goto out;
2380     }
2381     i = 0;
2382     for (arg = read_next_token(&cp); arg;
2383         arg = read_next_token(&cp)) {
2384         (*pam)->module_argv[i] = strdup(arg);
2385         if ((*pam)->module_argv[i] == NULL) {
2386             __pam_log(LOG_AUTH | LOG_ERR, "strdup failed");
2387             goto out;
2388         }
2389         i++;
2390     }
2391     (*pam)->module_argv[argc] = NULL;
2392 }
2393 (*pam)->module_argc = argc;
2394
2395 error = PAM_SUCCESS; /* success */
2396 (*pam)->pam_err = err; /* was the line truncated */
2397
2398 out:
2399     if (current_line)
2400         free(current_line);
2401     if (error != PAM_SUCCESS) {
2402         /* on error free this */
2403         if (*pam)
2404             free_pamconf(*pam);
2405     }
2406     return (error);
2407 }

```

unchanged_portion_omitted

new/usr/src/lib/libpam/pam_impl.h

1

```
*****
7321 Sat Jun 30 22:01:42 2012
new/usr/src/lib/libpam/pam_impl.h
2947 initial /etc/pam.d cut
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 * Use is subject to license terms.
24 *
25 * Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
26 */

28 #ifndef _PAM_IMPL_H
29 #define _PAM_IMPL_H

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

35 #include <limits.h>
36 #include <shadow.h>
37 #include <sys/types.h>

39 #define PAMTXD "SUNW_OST_SYSOSPAM"

41 #define PAM_CONFIG "/etc/pam.conf"
42 #define PAM_CONFIG_DIR "/etc/pam.d/"
43 #define PAM_ISA "$ISA/"
44 #define PAM_LIB_DIR "/usr/lib/security/"
45 #ifdef _LP64
46 #define PAM_ISA_DIR "/64/"
47 #else /* !_LP64 */
48 #define PAM_ISA_DIR "/"
49 #endif /* !_LP64 */

51 /* Service Module Types */

53 /*
54 * If new service types are added, they should be named in
55 * pam_framework.c:pam_snames[] as well.
56 */

58 #define PAM_ACCOUNT_NAME "account"
59 #define PAM_AUTH_NAME "auth"
60 #define PAM_PASSWORD_NAME "password"
61 #define PAM_SESSION_NAME "session"
```

new/usr/src/lib/libpam/pam_impl.h

2

```
63 #define PAM_ACCOUNT_MODULE 0
64 #define PAM_AUTH_MODULE 1
65 #define PAM_PASSWORD_MODULE 2
66 #define PAM_SESSION_MODULE 3

68 #define PAM_NUM_MODULE_TYPES 4

70 /* Control Flags */

72 #define PAM_BINDING_NAME "binding"
73 #define PAM_INCLUDE_NAME "include"
74 #define PAM_OPTIONAL_NAME "optional"
75 #define PAM_REQUIRED_NAME "required"
76 #define PAM_REQUISITE_NAME "requisite"
77 #define PAM_SUFFICIENT_NAME "sufficient"

79 #define PAM_BINDING 0x01
80 #define PAM_INCLUDE 0x02
81 #define PAM_OPTIONAL 0x04
82 #define PAM_REQUIRED 0x08
83 #define PAM_REQUISITE 0x10
84 #define PAM_SUFFICIENT 0x20

86 #define PAM_REQRD_BIND (PAM_REQUIRED | PAM_BINDING)
87 #define PAM_SUFFT_BIND (PAM_SUFFICIENT | PAM_BINDING)

89 /* Function Indicators */

91 #define PAM_AUTHENTICATE 1
92 #define PAM_SETCRED 2
93 #define PAM_ACCT_MGMT 3
94 #define PAM_OPEN_SESSION 4
95 #define PAM_CLOSE_SESSION 5
96 #define PAM_CHAUTHTOK 6

98 /* PAM tracing */

100 #define PAM_DEBUG "/etc/pam_debug"
101 #define LOG_PRIORITY "log_priority="
102 #define LOG_FACILITY "log_facility="
103 #define DEBUG_FLAGS "debug_flags="
104 #define PAM_DEBUG_NONE 0x0000
105 #define PAM_DEBUG_DEFAULT 0x0001
106 #define PAM_DEBUG_ITEM 0x0002
107 #define PAM_DEBUG_MODULE 0x0004
108 #define PAM_DEBUG_CONF 0x0008
109 #define PAM_DEBUG_DATA 0x0010
110 #define PAM_DEBUG_CONV 0x0020
111 #define PAM_DEBUG_AUTHHTOK 0x8000

113 #define PAM_MAX_ITEMS 64 /* Max number of items */
114 #define PAM_MAX_INCLUDE 32 /* Max include flag recursions */

116 /* authentication module functions */
117 #define PAM_SM_AUTHENTICATE "pam_sm_authenticate"
118 #define PAM_SM_SETCRED "pam_sm_setcred"

120 /* session module functions */
121 #define PAM_SM_OPEN_SESSION "pam_sm_open_session"
122 #define PAM_SM_CLOSE_SESSION "pam_sm_close_session"

124 /* password module functions */
125 #define PAM_SM_CHAUTHTOK "pam_sm_chauthtok"

127 /* account module functions */
```

```
128 #define PAM_SM_ACCT_MGMT                "pam_sm_acct_mgmt"

130 /* max # of authentication token attributes */
131 #define PAM_MAX_NUM_ATTR                10

133 /* max size (in chars) of an authentication token attribute */
134 #define PAM_MAX_ATTR_SIZE                80

136 /* utility function prototypes */

138 /* source values when calling __pam_get_authtok() */
139 #define PAM_PROMPT                1        /* prompt user for new password */
140 #define PAM_HANDLE                2        /* get password from pam handle (item) */

142 #if PASS_MAX >= PAM_MAX_RESP_SIZE
143 #error PASS_MAX > PAM_MAX_RESP_SIZE
144 #endif /* PASS_MAX >= PAM_MAX_RESP_SIZE */

146 extern int
147 __pam_get_authtok(pam_handle_t *pamh, int source, int type, char *prompt,
148                 char **authtok);

150 extern int
151 __pam_display_msg(pam_handle_t *pamh, int msg_style, int num_msg,
152                 char messages[PAM_MAX_NUM_MSG][PAM_MAX_MSG_SIZE], void *conv_apdp);

154 extern void
155 __pam_log(int priority, const char *format, ...);

157 /* file handle for pam.conf */
158 struct pam_fh {
159     int     fconfig;        /* file descriptor returned by open() */
160     char    line[256];
161     size_t  bufsize;       /* size of the buffer which holds */
162                                     /* the content of pam.conf */
163     char    *bufferp;      /* used to process data */
164     char    *data;         /* contents of pam.conf */
165 };

_____unchanged_portion_omitted_____
```

```

*****
6182 Sat Jun 30 22:01:42 2012
new/usr/src/man/man4/Makefile
2947 split up and ship pam.d/*, adjust Makefiles
*****
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet
9 # at http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright 2011, Richard Lowe
14 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
15 #
16 #
17 include ../../Makefile.master
18 #
19 MANSECT = 4
20 #
21 COMMON_MANFILES = Intro.4 \
22 NISLDAPmapping.4 \
23 TIMEZONE.4 \
24 a.out.4 \
25 admin.4 \
26 alias.4 \
27 aliases.4 \
28 au.4 \
29 audit.log.4 \
30 audit_class.4 \
31 audit_control.4 \
32 audit_event.4 \
33 audit_user.4 \
34 auth_attr.4 \
35 autofs.4 \
36 bart_manifest.4 \
37 bart_rules.4 \
38 bootparams.4 \
39 cardbus.4 \
40 compver.4 \
41 contents.4 \
42 contract.4 \
43 copyright.4 \
44 core.4 \
45 crypt.conf.4 \
46 crypto_certs.4 \
47 d_passwd.4 \
48 dacf.conf.4 \
49 dat.conf.4 \
50 default_fs.4 \
51 defaultdomain.4 \
52 defaultrouter.4 \
53 depend.4 \
54 device_allocate.4 \
55 device_contract.4 \
56 device_maps.4 \
57 devices.4 \
58 dfstab.4 \
59 dhcp_inittab.4 \
60 dhcp_network.4 \
61 dhcpsvc.conf.4

```

```

62 dhcptab.4 \
63 dialups.4 \
64 dir_ufs.4 \
65 driver.conf.4 \
66 ds.log.4 \
67 ethers.4 \
68 exec_attr.4 \
69 fdi.4 \
70 format.dat.4 \
71 fspec.4 \
72 fstypes.4 \
73 ftp.4 \
74 ftpaccess.4 \
75 ftpconversions.4 \
76 ftpgroups.4 \
77 ftphosts.4 \
78 ftpservers.4 \
79 ftpusers.4 \
80 fx_dptbl.4 \
81 gateways.4 \
82 group.4 \
83 gsscred.conf.4 \
84 hba.conf.4 \
85 holidays.4 \
86 hosts.4 \
87 hosts.equiv.4 \
88 hosts_access.4 \
89 hosts_options.4 \
90 ib.4 \
91 ike.config.4 \
92 ike.preshared.4 \
93 inet_type.4 \
94 inetd.conf.4 \
95 init.d.4 \
96 inittab.4 \
97 ipaddrsel.conf.4 \
98 ipnodes.4 \
99 issue.4 \
100 kadm5.acl.4 \
101 kdc.conf.4 \
102 keytables.4 \
103 krb5.conf.4 \
104 ldapfilter.conf.4 \
105 ldapsearchprefs.conf.4 \
106 ldaptemplates.conf.4 \
107 logadm.conf.4 \
108 logindevperm.4 \
109 loginlog.4 \
110 magic.4 \
111 md.tab.4 \
112 mddb.cf.4 \
113 mech.4 \
114 meddb.4 \
115 mmttab.4 \
116 mod_ipp.4 \
117 mpapi.conf.4 \
118 nca.if.4 \
119 ncad_addr.4 \
120 ncakmod.conf.4 \
121 ncalogd.conf.4 \
122 ncaport.conf.4 \
123 ndmp.4 \
124 ndpd.conf.4 \
125 netconfig.4 \
126 netgroup.4 \
127 netid.4 \

```

```

128 netmasks.4 //
129 netrc.4 //
130 networks.4 //
131 nfs.4 //
132 nfslog.conf.4 //
133 nfssec.conf.4 //
134 nodename.4 //
135 nologin.4 //
136 note.4 //
137 notrouter.4 //
138 nscd.conf.4 //
139 nsmbrc.4 //
140 nss.4 //
141 nsswitch.conf.4 //
142 packingrules.4 //
143 pam.conf.4 //
144 passwd.4 //
145 path_to_inst.4 //
146 pci.4 //
147 phones.4 //
148 pkginfo.4 //
149 pkgmap.4 //
150 policy.conf.4 //
151 power.conf.4 //
152 printers.4 //
153 printers.conf.4 //
154 priv_names.4 //
155 proc.4 //
156 process.4 //
157 prof_attr.4 //
158 profile.4 //
159 project.4 //
160 protocols.4 //
161 prototype.4 //
162 pseudo.4 //
163 publickey.4 //
164 queuedefs.4 //
165 rcmscript.4 //
166 rdc.cf.4 //
167 remote.4 //
168 resolv.conf.4 //
169 rmtab.4 //
170 rpc.4 //
171 rt_dptbl.4 //
172 sasl_appname.conf.4 //
173 scsi.4 //
174 securenets.4 //
175 sel_config.4 //
176 sendmail.4 //
177 service_bundle.4 //
178 service_provider.conf.4 //
179 services.4 //
180 shadow.4 //
181 sharetab.4 //
182 shells.4 //
183 slp.conf.4 //
184 slpd.reg.4 //
185 smb.4 //
186 smbautohome.4 //
187 smhba.conf.4 //
188 sndr.4 //
189 sock2path.4 //
190 space.4 //
191 ssh_config.4 //
192 sshd_config.4 //
193 sulog.4 //

```

```

194 syslog.conf.4 //
195 system.4 //
196 term.4 //
197 terminfo.4 //
198 timezone.4 //
199 tnf_kernel_probes.4 //
200 ts_dptbl.4 //
201 ttydefs.4 //
202 ttysrch.4 //
203 ufsdump.4 //
204 updaters.4 //
205 user_attr.4 //
206 utmp.4 //
207 utmpx.4 //
208 vfstab.4 //
209 volume-config.4 //
210 volume-request.4 //
211 wanboot.conf.4 //
212 warn.conf.4 //
213 xferlog.4 //
214 ypfiles.4 //
215 yppasswdd.4 //
216 ypserv.4 //
217 zoneinfo.4 //

219 sparc_MANFILES = sbus.4

221 i386_MANFILES = sysbus.4

223 i386_MANSOFILES = isa.4

225 MANSOFILES = addresses.4 //
226 devid_cache.4 //
227 devname_cache.4 //
228 dir.4 //
229 dumpdates.4 //
230 fbtab.4 //
231 forward.4 //
232 fs.4 //
233 hosts.allow.4 //
234 hosts.deny.4 //
235 intro.4 //
236 md.cf.4 //
237 mdi_ib_cache.4 //
238 mdi_scsi_vhci_cache.4 //
239 pam.d.4 //
240 pci_unitaddr_persistent.4 //
241 pcie.4 //
242 qop.4 //
243 rhosts.4 //
244 sendmail.cf.4 //
245 snapshot_cache.4 //
246 submit.cf.4 //
247 volume-defaults.4 //
248 wtmp.4 //
249 wtmpx.4 //
250 $(MACH)_MANSOFILES)

252 MANFILES = $(COMMON_MANFILES) $(MACH)_MANFILES) $(MANSOFILES)

254 intro.4 := SOSRC = man4/Intro.4

256 addresses.4 := SOSRC = man4/aliases.4
257 forward.4 := SOSRC = man4/aliases.4

259 fs.4 := SOSRC = man4/default_fs.4

```

```
261 devid_cache.4           := SOSRC = man4/devices.4
262 devname_cache.4        := SOSRC = man4/devices.4
263 mdi_ib_cache.4         := SOSRC = man4/devices.4
264 mdi_scsi_vhci_cache.4  := SOSRC = man4/devices.4
265 pci_unitaddr_persistent.4 := SOSRC = man4/devices.4
266 snapshot_cache.4      := SOSRC = man4/devices.4

268 dir.4                   := SOSRC = man4/dir_ufs.4

270 rhosts.4                := SOSRC = man4/hosts.equiv.4

272 hosts.allow.4          := SOSRC = man4/hosts_access.4
273 hosts.deny.4           := SOSRC = man4/hosts_access.4

275 fctab.4                 := SOSRC = man4/logindevperm.4

277 md.cf.4                 := SOSRC = man4/md.tab.4

279 qop.4                   := SOSRC = man4/mech.4

281 pam.d.4                 := SOSRC = man4/pam.conf.4
283 pcie.4                  := SOSRC = man4/pci.4

285 sendmail.cf.4          := SOSRC = man4/sendmail.4
286 submit.cf.4            := SOSRC = man4/sendmail.4

288 isa.4                   := SOSRC = man4/sysbus.4

290 dumpdates.4            := SOSRC = man4/ufsdump.4

292 wtmp.4                  := SOSRC = man4/utmp.4

294 wtmpx.4                 := SOSRC = man4/utmpx.4

296 volume-defaults.4      := SOSRC = man4/volume-request.4

298 .KEEP_STATE:

300 include ../Makefile.man

302 install: $(ROOTMANFILES)
```



```

*****
16478 Sat Jun 30 22:01:43 2012
new/usr/src/man/man4/pam.conf.4
2947 prelim manpage changes, packaging manifests
*****
1 \" te
2.\" Copyright (C) 2006, Sun Microsystems, Inc. All Rights Reserved.
3.\" Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
4.\" The contents of this file are subject to the terms of the Common Development
5.\" You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE or http:
6.\" When distributing Covered Code, include this CDDL HEADER in each file and in
7.TH PAM.CONF 4 "Jun 30, 2012"
6.TH PAM.CONF 4 "Jun 19, 2006"
8.SH NAME
9.pam.d, pam.conf \- configuration for pluggable authentication modules
8.pam.conf \- configuration file for pluggable authentication modules
10.SH SYNOPSIS
11.LP
12.nf
13 \fB/etc/pam.d\fR
14 .fi
15.nf
16 \fB/etc/pam.conf\fR
17 .fi

19 .SH DESCRIPTION
20 .sp
21 .LP

23 \fB/etc/pam.d\fR is the configuration directory for the Pluggable Authentication
18 \fBpam.conf\fR is the configuration file for the Pluggable Authentication
24 Module architecture, or \fBPAM\fR. A \fBPAM\fR module provides functionality
25 for one or more of four possible services: authentication, account management,
26 session management, and password management. The configuration directory
27 contains per-service 'shards' of the legacy, monolithic \fBpam.conf\fR file.
21 session management, and password management.
28 .sp
29 .ne 2
30 .na
31 \fBAuthentification service module\fR
32 .ad
33 .sp .6
34 .RS 4n
35 Provides functionality to authenticate a user and set up user credentials.
36 .RE

38 .sp
39 .ne 2
40 .na
41 \fBAccount management module\fR
42 .ad
43 .sp .6
44 .RS 4n
45 Provides functionality to determine if the current user's account is valid.
46 This includes checking for password and account expiration, as well as
47 verifying access hour restrictions.
48 .RE

50 .sp
51 .ne 2
52 .na
53 \fBSession management module\fR
54 .ad
55 .sp .6
56 .RS 4n
57 Provides functionality to set up and terminate login sessions.

```

```

58 .RE

60 .sp
61 .ne 2
62 .na
63 \fBpassword management module\fR
64 .ad
65 .sp .6
66 .RS 4n
67 Provides functionality to change a user's authentication token or password.
68 .RE

70 .sp
71 .LP
72 Each of the four service modules can be implemented as a shared library object
73 which can be referenced in the \fBpam.conf\fR configuration file.
74 .SS "Simplified pam.conf Configuration File"
75 .sp
76 .LP
77 The \fBpam.conf\fR file contains a listing of services. Each service is paired
78 with a corresponding service module. When a service is requested, its
79 associated module is invoked. Each entry may be a maximum of 256 characters,
80 including the end of line, and has the following format:
81 .sp
82 .in +2
83 .nf
84 \fIservice_name module_type control_flag module_path options\fR
85 .fi
86 .in -2
87 .sp

89 .sp
90 .LP
91 If shard files are used in \fB/etc/pam.d\fR instead of the monolithic
92 \fBpam.conf\fR file, then the \fIservice_name\fR column is not present in
93 those files. The \fIservice_name\fR is, instead, derived from the
94 filename of the shard. As an example, for the service 'login' the configuration
95 would now be in \fB/etc/pam.d/login\fR and would omit the first column
96 (previously containing 'login').
97 .sp
98 .LP
99 The following is an example of a \fBpam.conf\fR configuration file with support
100 for authentication, account management, session management and password
101 management modules (See the \fBpam.conf\fR file that is shipped with your
102 system for the contents of this file):
103 .sp
104 .in +2
105 .nf
106 login      auth requisite      pam_authtok_get.so.1
107 login      auth required       pam_dhkeys.so.1
108 login      auth required       pam_unix_auth.so.1
109 login      auth required       pam_dial_auth.so.1

111 other      account requisite    pam_roles.so.1
112 other      account required    pam_unix_account.so.1

114 other      session required     pam_unix_session.so.1

116 other      password required     pam_dhkeys.so.1
117 other      password requisite   pam_authtok_get.so.1
118 other      password requisite   pam_authtok_check.so.1
119 other      password required     pam_authtok_store.so.1
120 .fi
121 .in -2

123 .sp

```

```

124 .LP
125 \fIservice_name\fR denotes the service (for example, \fBlogin\fR,
126 \fBdtlogin\fR, or \fBrllogin\fR).
127 .sp
128 .LP
129 The keyword, "\fBBother\fR," indicates the module that all other applications
130 which have not been specified should use. The "\fBBother\fR" keyword can also be
131 used if all services of the same \fImodule_type\fR have the same requirements.
132 .sp
133 .LP
134 In the example, since all of the services use the same session module, they
135 could have been replaced by a single \fBBother\fR line.
136 .sp
137 .LP
138 \fImodule_type\fR denotes the service module type: authentication (\fBauth\fR),
139 account management (\fBaccount\fR), session management (\fBsession\fR), or
140 password management (\fBpassword\fR).
141 .sp
142 .LP
143 The \fIcontrol_flag\fR field determines the behavior of stacking.
144 .sp
145 .LP
146 The \fImodule_path\fR field specifies the relative pathname to a shared library
147 object, or an included \fBFPAM\fR configuration file, which implements the
148 service functionality. If the pathname is not absolute, shared library objects
149 are assumed to be relative to \fB/usr/lib/security/$ISA\fR, and \fBFPAM\fR
150 configuration files included in shards are assumed to be relative to
151 \fB/etc/pam.d/\fR, or \fB/usr/lib/security/\fB if included in the legacy
152 \fBpam.conf\fR.
153 are assumed to be relative to \fB/usr/lib/security/$ISA\fR, and included
154 \fBFPAM\fR configuration files are assumed to be relative to
155 \fB/usr/lib/security/\fR.
156 .sp
157 .LP
158 The \fBISA\fR token is replaced by an implementation defined directory name
159 which defines the path relative to the calling program's instruction set
160 architecture.
161 .sp
162 .LP
163 The \fIoptions\fR field is used by the \fBFPAM\fR framework layer to pass module
164 specific options to the modules. It is up to the module to parse and interpret
165 the options.
166 .sp
167 .LP
168 This field can be used by the modules to turn on debugging or to pass any
169 module specific parameters such as a \fBTIMEOUT\fR value. The options supported
170 by the modules are documented in their respective manual pages.
171 .SS "Integrating Multiple Authentication Services With Stacking"
172 .sp
173 .LP
174 When a \fIservice_name\fR of the same \fImodule_type\fR is defined more than
175 once, the service is said to be stacked. Each module referenced in the
176 \fImodule_path\fR for that service is then processed in the order that it
177 occurs in the configuration file. The \fIcontrol_flag\fR field specifies the
178 continuation and failure semantics of the modules, and can contain one of the
179 following values:
180 .sp
181 .ne 2
182 .na
183 \fBBinding\fR
184 .ad
185 .RS 14n
186 If the service module returns success and no preceding \fBRequired\fR modules
187 returned failures, immediately return success without calling any subsequent
188 modules. If a failure is returned, treat the failure as a \fBRequired\fR module
189 failure, and continue to process the \fBFPAM\fR stack.

```

```

187 .RE
188 .sp
189 .ne 2
190 .na
191 \fBInclude\fR
192 .ad
193 .RS 14n
194 Process the lines from the \fBFPAM\fR configuration file that is specified in
195 the \fImodule_path\fR at this point in the \fBFPAM\fR stack. The "\fBBother\fR"
196 keyword is used if the specified service_name is not found. 32 levels of
197 included \fBFPAM\fR configuration files are supported. Any options are ignored.
198 .RE
199 .sp
200 .ne 2
201 .na
202 \fBOptional\fR
203 .ad
204 .RS 14n
205 If the service module returns success, record the success, and continue to
206 process the \fBFPAM\fR stack. If a failure is returned, and it is the first
207 \fBOptional\fR module failure, save the failure code as an \fBOptional\fR
208 failure. Continue to process the \fBFPAM\fR stack.
209 .RE
210 .sp
211 .ne 2
212 .na
213 \fBRequired\fR
214 .ad
215 .RS 14n
216 If the service module returns success, record the success, and continue to
217 process the \fBFPAM\fR stack. If a failure is returned, and it is the first
218 \fBRequired\fR failure, save the failure code as a \fBRequired\fR failure.
219 Continue to process the \fBFPAM\fR stack.
220 .RE
221 .sp
222 .ne 2
223 .na
224 \fBRequisite\fR
225 .ad
226 .RS 14n
227 If the service module returns success, record the success, and continue to
228 process the \fBFPAM\fR stack. If a failure is returned, immediately return the
229 first non-optional failure value recorded without calling any subsequent
230 modules. That is, return this failure unless a previous required service module
231 failed. If a previous required service module failed, then return the first of
232 those values.
233 .RE
234 .sp
235 .ne 2
236 .na
237 \fBSufficient\fR
238 .ad
239 .RS 14n
240 If the service module return success and no preceding required modules returned
241 failures, immediately return success without calling any subsequent modules. If
242 a failure is returned, treat the failure as an optional module failure, and
243 continue to process the \fBFPAM\fR stack.
244 .RE
245 .sp
246 .LP

```

253 If the \fBPAM\fR stack runs to completion, that is, neither a \fB requisite\fR
 254 module failed, nor a \fB binding\fR or \fB sufficient\fR module success stops it,
 255 success is returned if no required modules failed and at least one required,
 256 requisite, optional module succeeded. If no module succeeded and a required or
 257 binding module failed, the first of those errors is returned. If no required or
 258 binding module failed and an optional module failed, the first of the option
 259 module errors is returned. If no module in the stack succeeded or failed, that
 260 is, all modules returned an ignore status, a default error based on module
 261 type, for example, "User account expired," is returned.

262 .sp
 263 .LP
 264 All errors in \fBpam.conf\fR entries are logged to \fBsyslog\fR as
 265 \fBLOG_AUTH\fR | \fBLOG_ERR\fR errors. The use of a service with an error noted
 266 in the \fBpam.conf\fR entry for that service will fail. The system
 267 administrator will need to correct the noted errors before that service may be
 268 used. If no services are available or the \fBpam.conf\fR file is missing, the
 269 system administrator may enter system maintenance mode to correct or restore
 270 the file.

271 .sp
 272 .LP
 273 The following is a sample configuration file that stacks the \fBsu\fR,
 274 \fBlogin\fR, and \fBrlogin\fR services.

275 .sp
 276 .in +2
 277 .nf

278 su	auth required	pam_inhouse.so.1
279 su	auth requisite	pam_authtok_get.so.1
280 su	auth required	pam_dhkeys.so.1
281 su	auth required	pam_unix_auth.so.1
283 login	auth requisite	pam_authtok_get.so.1
284 login	auth required	pam_dhkeys.so.1
285 login	auth required	pam_unix_auth.so.1
286 login	auth required	pam_dial_auth.so.1
287 login	auth optional	pam_inhouse.so.1
289 rlogin	auth sufficient	pam_rhosts_auth.so.1
290 rlogin	auth requisite	pam_authtok_get.so.1
291 rlogin	auth required	pam_dhkeys.so.1
292 rlogin	auth required	pam_unix_auth.so.1

293 .fi
 294 .in -2

296 .sp
 297 .LP
 298 In the case of \fBsu\fR, the user is authenticated by the \fBinhouse\fR and
 299 \fBauthtok_get\fR, \fBdhkeys\fR, and \fBunix_auth\fR authentication modules.
 300 Because the \fBinhouse\fR and the other authentication modules are
 301 \fBrequired\fR and \fB requisite\fR, respectively, an error is returned back to
 302 the application if any module fails. In addition, if the \fB requisite\fR
 303 authentication (\fBpam_authtok_get\fR authentication) fails, the other
 304 authentication modules are never invoked, and the error is returned immediately
 305 back to the application.

306 .sp
 307 .LP
 308 In the case of \fBlogin\fR, the \fBrequired\fR keyword for \fBcontrol_flag\fR
 309 requires that the user be allowed to login only if the user is authenticated by
 310 all the service modules. If \fBpam_unix_auth\fR authentication fails, control
 311 continues to proceed down the stack, and the \fBinhouse\fR authentication
 312 module is invoked. \fBinhouse\fR authentication is optional by virtue of the
 313 optional keyword in the \fBcontrol_flag\fR field. The user can still log in
 314 even if \fBinhouse\fR authentication fails, assuming the modules stacked above
 315 succeeded.

316 .sp
 317 .LP
 318 In the case of \fBrlogin\fR, the \fBsufficient\fR keyword for

319 \fBcontrol_flag\fR specifies that if the \fBrhosts\fR authentication check
 320 succeeds, then \fBPAM\fR should return success to \fBrlogin\fR and \fBrlogin\fR
 321 should not prompt the user for a password. The other authentication modules,
 322 which are in the stack, will only be invoked if the \fBrhosts\fR check fails.
 323 This gives the system administrator the flexibility to determine if
 324 \fBrhosts\fR alone is sufficient enough to authenticate a remote user.

325 .sp
 326 .LP
 327 Some modules return \fBPAM_IGNORE\fR in certain situations. In these cases the
 328 \fBPAM\fR framework ignores the entire entry in \fBpam.conf\fR regardless of
 329 whether or not it is \fB binding\fR, \fB requisite\fR, \fB required\fR,
 330 \fB optional\fR, or \fB sufficient\fR.

331 .SS "Utilities and Files"
 332 .sp
 333 .LP
 334 The specific service names and module types for each service should be
 335 documented in the man page for that service. For instance, the \fBsshd\fR(1M)
 336 man page lists all of the \fBPAM\fR service names and module types for the
 337 \fBsshd\fR command.

338 .sp
 339 .LP
 340 The \fBPAM\fR configuration file does not dictate either the name or the
 341 location of the service specific modules. The convention, however, is the
 342 following:

343 .sp
 344 .ne 2
 345 .na
 346 \fB\fBpam_module_name.so.x\fR
 347 .ad
 348 .RS 29n
 349 File that implements various function of specific authentication services. As
 350 the relative pathname specified, \fB/usr/lib/security/\$ISA\fR is prepended to
 351 it.
 352 .RE

354 .sp
 355 .ne 2
 356 .na
 357 \fB\fB/etc/pam.conf\fR
 358 .ad
 359 .RS 29n
 360 Configuration file
 361 .RE

363 .sp
 364 .ne 2
 365 .na
 366 \fB\fB/etc/pam.d\fR
 367 .ad
 368 .RS 29n
 369 Configuration directory
 370 .RE

372 .sp
 373 .ne 2
 374 .na
 375 \fB\fB/usr/lib/\$ISA/libpam.so.1\fR
 376 .ad
 377 .RS 29n
 378 File that implements the \fBPAM\fR framework library
 379 .RE

381 .SH EXAMPLES
 382 .LP
 383 \fBExample 1 \fRUsing the include control flag
 384 .sp

```

385 .LP
386 The following example collects the common Unix modules into a single file to be
387 included as needed in the example of a \fBpam.conf\fR file. The common Unix
388 module file is named \fBUnix_common\fR and consists of:

```

```

390 .sp
391 .in +2
392 .nf
393 OTHER auth requisite pam_authtok_get.so.1
394 OTHER auth required pam_dhkeys.so.1
395 OTHER auth required pam_unix_auth.so.1
396 OTHER auth required pam_unix_cred.so.1
397 OTHER account requisite pam_roles.so.1
398 OTHER account required pam_unix_account.so.1
399 OTHER session required pam_unix_session.so.1
400 OTHER password required pam_dhkeys.so.1
401 OTHER password requisite pam_authtok_get.so.1
402 OTHER password requisite pam_authtok_check.so.1
403 OTHER password required pam_authtok_store.so.1
404 .fi
405 .in -2
406 .sp

```

```

408 .sp
409 .LP
410 The \fBpam.conf\fR file and consists of:

```

```

412 .sp
413 .in +2
414 .nf
415 # Authentication management
416 #
417 # login service (explicit because of pam_dial_auth)
418 #
419 login auth include unix_common
420 login auth required pam_dial_auth.so.1
421 #
422 # rlogin service (explicit because of pam_rhost_auth)
423 #
424 rlogin auth sufficient pam_rhosts_auth.so.1
425 rlogin auth include unix_common
426 #
427 # Default definitions for Authentication management
428 # Used when service name is not explicitly mentioned
429 #
430 OTHER auth include unix_common
431 #
432 # Default definition for Account management
433 # Used when service name is not explicitly mentioned
434 #
435 OTHER account include unix_common
436 #
437 # Default definition for Session management
438 # Used when service name is not explicitly mentioned
439 #
440 OTHER session include unix_common
441 #
442 # Default definition for Password management
443 # Used when service name is not explicitly mentioned
444 #
445 OTHER password include unix_common
446 .fi
447 .in -2
448 .sp

```

```

450 .SH ATTRIBUTES

```

```

451 .sp
452 .LP
453 See \fBAttributes\fR(5) for descriptions of the following attributes:
454 .sp

```

```

456 .sp
457 .TS
458 box;
459 c | c
460 l | l .
461 ATTRIBUTE TYPE ATTRIBUTE VALUE
462 _
463 Interface Stability See Below.
464 .TE

```

```

466 .sp
467 .LP
468 The format is Stable. The contents has no stability attributes.
469 .SH SEE ALSO
470 .sp
471 .LP
472 \fBlogin\fR(1), \fBpasswd\fR(1), \fBin.ftpd\fR(1M), \fBin.rlogind\fR(1M),
473 \fBin.rshd\fR(1M), \fBin.telnetd\fR(1M), \fBin.uucpd\fR(1M), \fBinit\fR(1M),
474 \fBbrpc.rexd\fR(1M), \fBbsac\fR(1M), \fBttymon\fR(1M), \fBsu\fR(1M),
475 \fBpam\fR(3PAM), \fBsyslog\fR(3C), \fBlibpam\fR(3LIB), \fBAttributes\fR(5),
476 \fBenviron\fR(5), \fBpam_authtok_check\fR(5), \fBpam_authtok_get\fR(5),
477 \fBpam_authtok_store\fR(5), \fBpam_dhkeys\fR(5), \fBpam_krb5\fR(5),
478 \fBpam_passwd_auth\fR(5), \fBpam_unix_account\fR(5), \fBpam_unix_auth\fR(5),
479 \fBpam_unix_session\fR(5)
480 .SH NOTES
481 .sp
482 .LP
483 The \fBpam_unix\fR module is no longer supported. Similar functionality is
484 provided by \fBpam_authtok_check\fR(5), \fBpam_authtok_get\fR(5),
485 \fBpam_authtok_store\fR(5), \fBpam_dhkeys\fR(5), \fBpam_passwd_auth\fR(5),
486 \fBpam_unix_account\fR(5), \fBpam_unix_auth\fR(5), and
487 \fBpam_unix_session\fR(5).
488 .sp
489 .LP
490 With the removal of the \fBpam_unix\fR module, the SunOS delivered PAM service
491 modules no longer need or support the "\fBuse_first_pass\fR" or
492 "\fBtry_first_pass\fR" options. This functionality is provided by stacking
493 \fBpam_authtok_get\fR(5) above a module that requires a password.

```

new/usr/src/pkg/manifests/SUNWcs.man4.inc

1

4690 Sat Jun 30 22:01:43 2012

new/usr/src/pkg/manifests/SUNWcs.man4.inc

2947 prelim manpage changes, packaging manifests

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

10 #

12 #
13 # Copyright 2011, Richard Lowe
14 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
15 #

17 file path=usr/share/man/man4/Intro.4
18 file path=usr/share/man/man4/TIMEZONE.4
19 file path=usr/share/man/man4/audit.log.4
20 file path=usr/share/man/man4/audit_class.4
21 file path=usr/share/man/man4/audit_control.4
22 file path=usr/share/man/man4/audit_event.4
23 file path=usr/share/man/man4/audit_user.4
24 file path=usr/share/man/man4/auth_attr.4
25 file path=usr/share/man/man4/contract.4
26 file path=usr/share/man/man4/core.4
27 file path=usr/share/man/man4/crypt.conf.4
28 file path=usr/share/man/man4/crypto_certs.4
29 file path=usr/share/man/man4/d_passwd.4
30 file path=usr/share/man/man4/dacf.conf.4
31 file path=usr/share/man/man4/default_fs.4
32 file path=usr/share/man/man4/defaultrouter.4
33 file path=usr/share/man/man4/device_allocate.4
34 file path=usr/share/man/man4/device_contract.4
35 file path=usr/share/man/man4/device_maps.4
36 file path=usr/share/man/man4/devices.4
37 file path=usr/share/man/man4/devid_cache.4
38 file path=usr/share/man/man4/devname_cache.4
39 file path=usr/share/man/man4/dfstab.4
40 file path=usr/share/man/man4/dhcp_inittab.4
41 file path=usr/share/man/man4/dialups.4
42 file path=usr/share/man/man4/dumpdates.4
43 file path=usr/share/man/man4/ethers.4
44 file path=usr/share/man/man4/exec_attr.4
45 file path=usr/share/man/man4/fstab.4
46 file path=usr/share/man/man4/format.dat.4
47 file path=usr/share/man/man4/fs.4
48 file path=usr/share/man/man4/fspec.4
49 file path=usr/share/man/man4/fstypes.4
50 file path=usr/share/man/man4/fx_dptbl.4
51 file path=usr/share/man/man4/group.4
52 file path=usr/share/man/man4/hosts.4
53 file path=usr/share/man/man4/ike.config.4
54 file path=usr/share/man/man4/ike.preshared.4
55 file path=usr/share/man/man4/inet_type.4
56 file path=usr/share/man/man4/inetd.conf.4
57 file path=usr/share/man/man4/init.d.4
58 file path=usr/share/man/man4/inittab.4
59 file path=usr/share/man/man4/intro.4
60 file path=usr/share/man/man4/ipaddrsel.conf.4
61 file path=usr/share/man/man4/ipnodes.4

new/usr/src/pkg/manifests/SUNWcs.man4.inc

2

62 file path=usr/share/man/man4/issue.4
63 file path=usr/share/man/man4/logadm.conf.4
64 file path=usr/share/man/man4/logindevperm.4
65 file path=usr/share/man/man4/loginlog.4
66 file path=usr/share/man/man4/magic.4
67 file path=usr/share/man/man4/mdi_ib_cache.4
68 file path=usr/share/man/man4/mdi_scsi_vhci_cache.4
69 file path=usr/share/man/man4/mnttab.4
70 file path=usr/share/man/man4/ndpd.conf.4
71 file path=usr/share/man/man4/netconfig.4
72 file path=usr/share/man/man4/netgroup.4
73 file path=usr/share/man/man4/netid.4
74 file path=usr/share/man/man4/netmasks.4
75 file path=usr/share/man/man4/networks.4
76 file path=usr/share/man/man4/nodename.4
77 file path=usr/share/man/man4/nologin.4
78 file path=usr/share/man/man4/notrouter.4
79 file path=usr/share/man/man4/nscd.conf.4
80 file path=usr/share/man/man4/nsswitch.conf.4
81 file path=usr/share/man/man4/packingrules.4
82 file path=usr/share/man/man4/pam.conf.4
83 file path=usr/share/man/man4/pam.d.4
84 file path=usr/share/man/man4/passwd.4
85 file path=usr/share/man/man4/pci_unitaddr_persistent.4
86 file path=usr/share/man/man4/phones.4
87 file path=usr/share/man/man4/policy.conf.4
88 file path=usr/share/man/man4/prof_attr.4
89 file path=usr/share/man/man4/profile.4
90 file path=usr/share/man/man4/project.4
91 file path=usr/share/man/man4/protocols.4
92 file path=usr/share/man/man4/queuedefs.4
93 file path=usr/share/man/man4/rcmscript.4
94 file path=usr/share/man/man4/remote.4
95 file path=usr/share/man/man4/rpc.4
96 file path=usr/share/man/man4/rt_dptbl.4
97 file path=usr/share/man/man4/service_bundle.4
98 file path=usr/share/man/man4/service_provider.conf.4
99 file path=usr/share/man/man4/services.4
100 file path=usr/share/man/man4/shadow.4
101 file path=usr/share/man/man4/sharetab.4
102 file path=usr/share/man/man4/shells.4
103 file path=usr/share/man/man4/snapshot_cache.4
104 file path=usr/share/man/man4/sulog.4
105 file path=usr/share/man/man4/syslog.conf.4
106 file path=usr/share/man/man4/term.4
107 file path=usr/share/man/man4/terminfo.4
108 file path=usr/share/man/man4/timezone.4
109 file path=usr/share/man/man4/ttydefs.4
110 file path=usr/share/man/man4/ttysrch.4
111 file path=usr/share/man/man4/ufsdump.4
112 file path=usr/share/man/man4/user_attr.4
113 file path=usr/share/man/man4/utmp.4
114 file path=usr/share/man/man4/utmpx.4
115 file path=usr/share/man/man4/vfstab.4
116 file path=usr/share/man/man4/wanboot.conf.4
117 file path=usr/share/man/man4/wtmp.4
118 file path=usr/share/man/man4/wtmpx.4
119 file path=usr/share/man/man4/zoneinfo.4

```

*****
90699 Sat Jun 30 22:01:43 2012
new/usr/src/pkg/manifests/SUNWcs.mf
2947 prelim manpage changes, packaging manifests
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2012 Nexenta Systems, Inc. All rights reserved.
25 #
26 #
27 <include SUNWcs.man1.inc>
28 <include SUNWcs.man1m.inc>
29 <include SUNWcs.man4.inc>
30 <include SUNWcs.man5.inc>
31 <include SUNWcs.man7d.inc>
32 <include SUNWcs.man7fs.inc>
33 set name=pkg.fmri value=pkg:/SUNWcs@$(PKGVERS)
34 set name=pkg.description \
35     value="core software for a specific instruction-set architecture"
36 set name=pkg.summary value="Core Solaris"
37 set name=info.classification value=org.opensolaris.category.2008:System/Core
38 set name=variant.arch value=$(ARCH)
39 dir path=dev group=sys
40 dir path=etc group=sys
41 dir path=etc/certs group=sys
42 dir path=etc/cron.d group=sys
43 dir path=etc/crypto group=sys
44 dir path=etc/crypto/certs group=sys
45 dir path=etc/crypto/crls group=sys
46 dir path=etc/default group=sys
47 dir path=etc/dev group=sys
48 dir path=etc/devices group=sys
49 dir path=etc/dfs group=sys
50 dir path=etc/dhcp group=sys
51 dir path=etc/fs group=sys
52 dir path=etc/fs/dev group=sys
53 dir path=etc/fs/hsfs group=sys
54 dir path=etc/fs/ufs group=sys
55 dir path=etc/ftpd group=sys
56 dir path=etc/inet group=sys
57 dir path=etc/init.d group=sys
58 dir path=etc/lib group=sys
59 dir path=etc/logadm.d group=sys
60 dir path=etc/mail group=mail
61 dir path=etc/net group=sys

```

```

62 dir path=etc/net/ticlts group=sys
63 dir path=etc/net/ticots group=sys
64 dir path=etc/net/ticotsord group=sys
65 dir path=etc/opt group=sys
66 dir path=etc/pam.d group=sys
67 dir path=etc/rc0.d group=sys
68 dir path=etc/rc1.d group=sys
69 dir path=etc/rc2.d group=sys
70 dir path=etc/rc3.d group=sys
71 dir path=etc/rcS.d group=sys
72 dir path=etc/rpcsec group=sys
73 dir path=etc/saf
74 dir path=etc/saf/zsmon group=sys
75 dir path=etc/sasl group=sys
76 dir path=etc/security group=sys
77 dir path=etc/security/audit group=sys
78 dir path=etc/security/audit/localhost group=sys
79 dir path=etc/security/auth_attr.d group=sys
80 dir path=etc/security/dev group=sys
81 dir path=etc/security/exec_attr.d group=sys
82 dir path=etc/security/lib group=sys
83 dir path=etc/security/prof_attr.d group=sys
84 dir path=etc/skel group=sys
85 dir path=etc/svc group=sys
86 dir path=etc/svc/profile group=sys
87 dir path=etc/svc/profile/site group=sys
88 dir path=etc/svc/volatile group=sys
89 dir path=etc/sysevent group=sys
90 dir path=etc/sysevent/config group=sys
91 dir path=etc/tm group=sys
92 dir path=etc/user_attr.d group=sys
93 dir path=export group=sys
94 dir path=home group=root mode=0555
95 dir path=lib
96 dir path=lib/crypto
97 dir path=lib/inet
98 dir path=lib/svc
99 dir path=lib/svc/bin
100 dir path=lib/svc/capture
101 dir path=lib/svc/manifest group=sys
102 dir path=lib/svc/manifest/application group=sys
103 dir path=lib/svc/manifest/application/management group=sys
104 dir path=lib/svc/manifest/application/security group=sys
105 dir path=lib/svc/manifest/device group=sys
106 dir path=lib/svc/manifest/milestone group=sys
107 dir path=lib/svc/manifest/network group=sys
108 dir path=lib/svc/manifest/network/dns group=sys
109 dir path=lib/svc/manifest/network/ipsec group=sys
110 dir path=lib/svc/manifest/network/ldap group=sys
111 dir path=lib/svc/manifest/network/routing group=sys
112 dir path=lib/svc/manifest/network/rpc group=sys
113 dir path=lib/svc/manifest/network/shares group=sys
114 dir path=lib/svc/manifest/network/ssl group=sys
115 dir path=lib/svc/manifest/platform group=sys
116 $(sparc_ONLY)dir path=lib/svc/manifest/platform/sun4u group=sys
117 dir path=lib/svc/manifest/site group=sys
118 dir path=lib/svc/manifest/system group=sys
119 dir path=lib/svc/manifest/system/device group=sys
120 dir path=lib/svc/manifest/system/filesystem group=sys
121 dir path=lib/svc/manifest/system/security group=sys
122 dir path=lib/svc/manifest/system/svc group=sys
123 dir path=lib/svc/method
124 dir path=lib/svc/monitor
125 dir path=lib/svc/seed
126 dir path=lib/svc/share
127 dir path=mnt group=sys

```

```

128 dir path=opt group=sys
129 dir path=proc group=root mode=0555
130 dir path=root group=root mode=0700
131 dir path=sbin group=sys
132 dir path=system group=root
133 dir path=system/contract group=root mode=0555
134 dir path=system/object group=root mode=0555
135 dir path=tmp group=sys mode=1777
136 dir path=usr group=sys
137 dir path=usr/bin
138 dir path=usr/bin/$(ARCH32)
139 dir path=usr/bin/$(ARCH64)
140 dir path=usr/ccs
141 dir path=usr/ccs/bin
142 dir path=usr/demo
143 dir path=usr/games
144 dir path=usr/has
145 dir path=usr/has/bin
146 dir path=usr/has/lib
147 dir path=usr/has/man
148 dir path=usr/has/man/manlhas
149 dir path=usr/kernel group=sys
150 dir path=usr/kernel/drv group=sys
151 dir path=usr/kernel/drv/$(ARCH64) group=sys
152 dir path=usr/kernel/exec group=sys
153 dir path=usr/kernel/exec/$(ARCH64) group=sys
154 dir path=usr/kernel/fs group=sys
155 dir path=usr/kernel/fs/$(ARCH64) group=sys
156 dir path=usr/kernel/pcbe group=sys
157 dir path=usr/kernel/pcbe/$(ARCH64) group=sys
158 dir path=usr/kernel/sched group=sys
159 dir path=usr/kernel/sched/$(ARCH64) group=sys
160 dir path=usr/kernel/strmod group=sys
161 dir path=usr/kernel/strmod/$(ARCH64) group=sys
162 dir path=usr/kernel/sys group=sys
163 dir path=usr/kernel/sys/$(ARCH64) group=sys
164 dir path=usr/kvm
165 dir path=usr/lib
166 dir path=usr/lib/$(ARCH64)
167 dir path=usr/lib/audit
168 dir path=usr/lib/class
169 dir path=usr/lib/class/FX
170 dir path=usr/lib/class/IA
171 dir path=usr/lib/class/RT
172 dir path=usr/lib/class/SDC
173 dir path=usr/lib/class/TS
174 dir path=usr/lib/crypto
175 dir path=usr/lib/devfsadm group=sys
176 dir path=usr/lib/devfsadm/linkmod group=sys
177 dir path=usr/lib/fs group=sys
178 dir path=usr/lib/fs/autofs group=sys
179 dir path=usr/lib/fs/autofs/$(ARCH64) group=sys
180 dir path=usr/lib/fs/cachefs group=sys
181 dir path=usr/lib/fs/ctfs group=sys
182 dir path=usr/lib/fs/dev group=sys
183 dir path=usr/lib/fs/fd group=sys
184 dir path=usr/lib/fs/hsfs group=sys
185 dir path=usr/lib/fs/lofs group=sys
186 dir path=usr/lib/fs/mntfs group=sys
187 dir path=usr/lib/fs/nfs group=sys
188 dir path=usr/lib/fs/nfs/$(ARCH64) group=sys
189 dir path=usr/lib/fs/objfs group=sys
190 dir path=usr/lib/fs/proc group=sys
191 dir path=usr/lib/fs/sharefs group=sys
192 dir path=usr/lib/fs/tmpfs group=sys
193 dir path=usr/lib/fs/ufs group=sys

```

```

194 dir path=usr/lib/help
195 dir path=usr/lib/help/auths
196 dir path=usr/lib/help/auths/locale
197 dir path=usr/lib/help/auths/locale/C
198 dir path=usr/lib/help/profiles
199 dir path=usr/lib/help/profiles/locale
200 dir path=usr/lib/help/profiles/locale/C
201 dir path=usr/lib/iconv
202 dir path=usr/lib/inet
203 dir path=usr/lib/inet/$(ARCH32)
204 dir path=usr/lib/inet/$(ARCH64)
205 dir path=usr/lib/inet/dhcp
206 dir path=usr/lib/inet/dhcp/nsu
207 dir path=usr/lib/inet/dhcp/svc
208 dir path=usr/lib/locale
209 dir path=usr/lib/locale/C
210 dir path=usr/lib/locale/C/LC_COLLATE
211 dir path=usr/lib/locale/C/LC_CTYPE
212 dir path=usr/lib/locale/C/LC_MESSAGES
213 dir path=usr/lib/locale/C/LC_MONETARY
214 dir path=usr/lib/locale/C/LC_NUMERIC
215 dir path=usr/lib/locale/C/LC_TIME
216 dir path=usr/lib/netsvc group=sys
217 dir path=usr/lib/pci
218 dir path=usr/lib/rcm
219 dir path=usr/lib/rcm/modules
220 dir path=usr/lib/rcm/scripts
221 dir path=usr/lib/reparse
222 dir path=usr/lib/saf
223 dir path=usr/lib/secure
224 dir path=usr/lib/secure/$(ARCH64)
225 dir path=usr/lib/security
226 dir path=usr/lib/sysevent
227 dir path=usr/lib/sysevent/modules
228 dir path=usr/net group=sys
229 dir path=usr/net/nls group=sys
230 dir path=usr/net/servers group=sys
231 dir path=usr/old
232 dir path=usr/platform group=sys
233 dir path=usr/sadm
234 dir path=usr/sadm/bin
235 dir path=usr/sadm/install
236 dir path=usr/sadm/install/scripts
237 dir path=usr/sbin
238 $(i386_ONLY)dir path=usr/sbin/$(ARCH32)
239 dir path=usr/sbin/$(ARCH64)
240 dir path=usr/share
241 dir path=usr/share/doc group=other
242 dir path=usr/share/doc/ksh
243 dir path=usr/share/doc/ksh/images
244 dir path=usr/share/doc/ksh/images/callouts
245 dir path=usr/share/lib
246 dir path=usr/share/lib/mailx
247 dir path=usr/share/lib/pub
248 dir path=usr/share/lib/tabset
249 dir path=usr/share/lib/xml group=sys
250 dir path=usr/share/lib/xml/dtd group=sys
251 dir path=usr/share/lib/xml/style group=sys
252 dir path=usr/share/man
253 dir path=usr/share/man/man1
254 dir path=usr/share/man/man1m
255 dir path=usr/share/man/man4
256 dir path=usr/share/man/man5
257 dir path=usr/share/man/man7d
258 dir path=usr/share/man/man7fs
259 dir path=usr/share/src group=sys

```

```

260 dir path=var group=sys
261 dir path=var/adm/grp=group=sys mode=0775
262 dir path=var/adm/exacct group=adm owner=adm
263 dir path=var/adm/log group=adm owner=adm
264 dir path=var/adm/streams group=sys
265 dir path=var/audit group=sys
266 dir path=var/cores group=sys
267 dir path=var/cron group=sys
268 dir path=var/games
269 dir path=var/ldap group=daemon owner=daemon
270 dir path=var/inet group=sys
271 dir path=var/ld
272 dir path=var/ld/${ARCH64}
273 dir path=var/log group=sys
274 dir path=var/logadm
275 dir path=var/mail group=mail mode=1777
276 dir path=var/mail/:saved group=mail mode=0775
277 dir path=var/news
278 dir path=var/opt group=sys
279 dir path=var/preserve mode=1777
280 dir path=var/run group=sys
281 dir path=var/sadm group=sys
282 dir path=var/sadm/system group=sys
283 dir path=var/sadm/system/admin group=sys
284 dir path=var/saf
285 dir path=var/saf/zsmon group=sys
286 dir path=var/spool
287 dir path=var/spool/cron group=sys
288 dir path=var/spool/cron/atjobs group=sys
289 dir path=var/spool/cron/crontabs group=sys
290 dir path=var/spool/locks group=uucp owner=uucp
291 dir path=var/svc group=sys
292 dir path=var/svc/log group=sys
293 dir path=var/svc/manifest group=sys
294 dir path=var/svc/manifest/application group=sys
295 dir path=var/svc/manifest/application/management group=sys
296 dir path=var/svc/manifest/application/print group=sys
297 dir path=var/svc/manifest/application/security group=sys
298 dir path=var/svc/manifest/device group=sys
299 dir path=var/svc/manifest/milestone group=sys
300 dir path=var/svc/manifest/network group=sys
301 dir path=var/svc/manifest/network/dns group=sys
302 dir path=var/svc/manifest/network/ipsec group=sys
303 dir path=var/svc/manifest/network/ldap group=sys
304 dir path=var/svc/manifest/network/nfs group=sys
305 dir path=var/svc/manifest/network/nis group=sys
306 dir path=var/svc/manifest/network/routing group=sys
307 dir path=var/svc/manifest/network/rpc group=sys
308 dir path=var/svc/manifest/network/security group=sys
309 dir path=var/svc/manifest/network/shares group=sys
310 dir path=var/svc/manifest/network/ssl group=sys
311 dir path=var/svc/manifest/platform group=sys
312 $(sparc_ONLY)dir path=var/svc/manifest/platform/sun4u group=sys
313 $(sparc_ONLY)dir path=var/svc/manifest/platform/sun4v group=sys
314 dir path=var/svc/manifest/site group=sys
315 dir path=var/svc/manifest/system group=sys
316 dir path=var/svc/manifest/system/device group=sys
317 dir path=var/svc/manifest/system/filesystem group=sys
318 dir path=var/svc/manifest/system/security group=sys
319 dir path=var/svc/manifest/system/svc group=sys
320 dir path=var/svc/profile group=sys
321 dir path=var/tmp group=sys mode=1777
322 driver name=dump perms="dump 0660 root sys"
323 driver name=fsnap \
324     policy="ctl read_priv_set=sys_config write_priv_set=sys_config" \
325     perms="* 0640 root sys" perms="ctl 0666 root sys"

```

```

326 driver name=kstat perms="* 0666 root sys"
327 driver name=ksyms perms="* 0666 root sys"
328 driver name=logindmux
329 driver name=ptm clone_perms="ptmx 0666 root sys"
330 driver name=pts perms="* 0644 root sys" perms="0 0620 root tty" \
331     perms="1 0620 root tty" perms="2 0620 root tty" perms="3 0620 root tty"
332 file path=etc/.login group=sys preserve=renamew
333 file path=etc/certs/SUNWObjectCA group=sys
334 file path=etc/certs/SUNWSolarisCA group=sys
335 file path=etc/certs/SUNW_SunOS_5.10 group=sys
336 file path=etc/cron.d/.proto group=sys mode=0744
337 file path=etc/cron.d/at.deny group=sys preserve=true
338 file path=etc/cron.d/cron.deny group=sys preserve=true
339 file path=etc/cron.d/queuedefs group=sys
340 file path=etc/crypto/certs/CA group=sys
341 file path=etc/crypto/certs/SUNW_SunOS_5.10 group=sys
342 file path=etc/crypto/kmf.conf group=sys preserve=true
343 file path=etc/crypto/pkcs11.conf group=sys preserve=true
344 file path=etc/datemsk group=sys mode=0444
345 file path=etc/default/cron group=sys preserve=true
346 file path=etc/default/devfsadm group=sys preserve=true
347 file path=etc/default/fs group=sys preserve=true
348 file path=etc/default/init group=sys preserve=true
349 file path=etc/default/keyserd group=sys preserve=true
350 file path=etc/default/login group=sys preserve=true
351 file path=etc/default/nss group=sys preserve=true
352 file path=etc/default/passwd group=sys preserve=true
353 file path=etc/default/su group=sys preserve=true
354 file path=etc/default/syslogd group=sys preserve=true
355 file path=etc/default/tar group=sys preserve=true
356 file path=etc/default/utmpd group=sys preserve=true
357 file path=etc/dev/reserved_devnames group=sys preserve=true
358 file path=etc/device.tab group=root mode=0444 preserve=true
359 file path=etc/dfs/dfstab group=sys preserve=true
360 file path=etc/dfs/fstypes group=root preserve=true
361 file path=etc/dfs/sharetab group=root mode=0444 preserve=true
362 file path=etc/dgroup.tab group=sys mode=0444 preserve=true
363 file path=etc/dhcp/inittab group=sys preserve=true
364 file path=etc/dhcp/inittab6 group=sys preserve=true
365 file path=etc/dumpdates group=sys mode=0664 preserve=true
366 file path=etc/format.dat group=sys preserve=true
367 file path=etc/fs/dev/mount mode=0555
368 file path=etc/fs/hfs/mount mode=0555
369 file path=etc/fs/ufs/mount mode=0555
370 file path=etc/ftpd/ftpusers group=sys preserve=true
371 file path=etc/group group=sys preserve=true
372 file path=etc/inet/hosts group=sys preserve=true
373 file path=etc/inet/inetd.conf group=sys preserve=true
374 file path=etc/inet/ipaddrsel.conf group=sys preserve=true
375 file path=etc/inet/netmasks group=sys preserve=true
376 file path=etc/inet/networks group=sys preserve=true
377 file path=etc/inet/protocols group=sys preserve=true
378 file path=etc/inet/services group=sys preserve=true
379 file path=etc/inet/wanboot.conf.sample group=sys mode=0444
380 file path=etc/init.d/PRESERVE group=sys mode=0744 preserve=true
381 file path=etc/init.d/README group=sys preserve=true
382 file path=etc/init.d/cachefs.daemon group=sys mode=0744 preserve=true
383 file path=etc/init.d/ldap.Client group=sys mode=0744
384 file path=etc/init.d/nscd group=sys mode=0744
385 file path=etc/init.d/syssetup group=sys mode=0744 preserve=true
386 file path=etc/init.d/ufs_quota group=sys mode=0744 preserve=true
387 file path=etc/inittab group=sys preserve=true
388 file path=etc/ioctl.syscon group=sys preserve=true
389 file path=etc/ksh.kshrc group=sys preserve=renamew
390 file path=etc/logadm.conf group=sys preserve=true timestamp=19700101T000000Z
391 file path=etc/loginddevperm group=sys preserve=true

```



```

392 file path=etc/magic mode=0444
393 file path=etc/mail/mailx.rc preserve=true
394 file path=etc/mailcap preserve=true
395 file path=etc/mime.types preserve=true
396 file path=etc/mnttab group=root mode=0444 preserve=true
397 file path=etc/motd group=sys preserve=true
398 file path=etc/net/ticlts/hosts group=sys
399 file path=etc/net/ticlts/services group=sys preserve=true
400 file path=etc/net/ticots/hosts group=sys
401 file path=etc/net/ticots/services group=sys preserve=true
402 file path=etc/net/ticotsord/hosts group=sys
403 file path=etc/net/ticotsord/services group=sys preserve=true
404 file path=etc/netoconfig group=sys preserve=true
405 file path=etc/nscd.conf group=sys preserve=true
406 file path=etc/nsswitch.ad group=sys
407 file path=etc/nsswitch.conf group=sys preserve=true
408 file path=etc/nsswitch.dns group=sys
409 file path=etc/nsswitch.files group=sys
410 file path=etc/nsswitch.ldap group=sys
411 file path=etc/pam.conf group=sys preserve=true
412 file path=etc/pam.d/cron group=sys preserve=true
413 file path=etc/pam.d/cups group=sys preserve=true
414 file path=etc/pam.d/gdm-autologin group=sys preserve=true
415 file path=etc/pam.d/klogin group=sys preserve=true
416 file path=etc/pam.d/krsh group=sys preserve=true
417 file path=etc/pam.d/ktelnet group=sys preserve=true
418 file path=etc/pam.d/login group=sys preserve=true
419 file path=etc/pam.d/other group=sys preserve=true
420 file path=etc/pam.d/passwd group=sys preserve=true
421 file path=etc/pam.d/ppp group=sys preserve=true
422 file path=etc/pam.d/rlogin group=sys preserve=true
423 file path=etc/pam.d/rsh group=sys preserve=true
424 file path=etc/passwd group=sys preserve=true
425 file path=etc/profile group=sys preserve=true
426 file path=etc/project group=sys preserve=true
427 file path=etc/rc2.d/README group=sys
428 file path=etc/rc3.d/README group=sys
429 file path=etc/rc5.d/README group=sys
430 file path=etc/remote preserve=true
431 file path=etc/rpc group=sys preserve=true
432 file path=etc/saf/_sactab group=sys preserve=true
433 file path=etc/saf/_sysconfig group=sys preserve=true
434 file path=etc/saf/zsmon/_pmtab group=sys preserve=true
435 file path=etc/security/audit_class group=sys preserve=renamew
436 file path=etc/security/audit_event group=sys preserve=renamew
437 file path=etc/security/audit_warn group=sys mode=0740 preserve=renamew
438 file path=etc/security/auth_attr group=sys preserve=true \
439 timestamp=19700101T000000Z
440 file path=etc/security/auth_attr.d/SUNWcs group=sys
441 file path=etc/security/crypt.conf group=sys preserve=renamew
442 file path=etc/security/dev/audio mode=0400
443 file path=etc/security/dev/fd0 mode=0400
444 file path=etc/security/dev/sr0 mode=0400
445 file path=etc/security/dev/st0 mode=0400
446 file path=etc/security/dev/st1 mode=0400
447 file path=etc/security/exec_attr group=sys preserve=true \
448 timestamp=19700101T000000Z
449 file path=etc/security/exec_attr.d/SUNWcs group=sys
450 file path=etc/security/kmfpolicy.xml
451 file path=etc/security/lib/audio_clean group=sys mode=0555
452 file path=etc/security/lib/fd_clean group=sys mode=0555
453 file path=etc/security/lib/sr_clean group=sys mode=0555
454 file path=etc/security/lib/st_clean group=sys mode=0555
455 file path=etc/security/policy.conf group=sys preserve=true
456 file path=etc/security/priv_names group=sys preserve=renamew
457 file path=etc/security/prof_attr group=sys preserve=true \

```

```

458 timestamp=19700101T000000Z
459 file path=etc/security/prof_attr.d/SUNWcs group=sys
460 file path=etc/shadow group=sys mode=0400 preserve=true
461 file path=etc/skel/.profile group=other preserve=true
462 file path=etc/skel/local.cshrc group=sys preserve=true
463 file path=etc/skel/local.login group=sys preserve=true
464 file path=etc/skel/local.profile group=sys preserve=true
465 file path=etc/svc/profile/generic_limited_net.xml group=sys mode=0444
466 file path=etc/svc/profile/generic_open.xml group=sys mode=0444
467 file path=etc/svc/profile/inetd_generic.xml group=sys mode=0444
468 file path=etc/svc/profile/inetd_upgrade.xml group=sys mode=0444
469 file path=etc/svc/profile/ns_dns.xml group=sys mode=0444
470 file path=etc/svc/profile/ns_files.xml group=sys mode=0444
471 file path=etc/svc/profile/ns_ldap.xml group=sys mode=0444
472 file path=etc/svc/profile/ns_nis.xml group=sys mode=0444
473 file path=etc/svc/profile/ns_none.xml group=sys mode=0444
474 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,SPARC-Enterprise.xml \
475 group=sys mode=0444
476 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire-15000.xml \
477 group=sys mode=0444
478 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire-880.xml \
479 group=sys mode=0444
480 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire.xml group=sys \
481 mode=0444
482 $(sparc_ONLY)file \
483 path=etc/svc/profile/platform_SUNW,Ultra-Enterprise-10000.xml group=sys \
484 mode=0444
485 $(sparc_ONLY)file \
486 path=etc/svc/profile/platform_SUNW,UltraSPARC-III-Netractor.xml group=sys \
487 mode=0444
488 file path=etc/svc/profile/platform_none.xml group=sys mode=0444
489 $(sparc_ONLY)file path=etc/svc/profile/platform_sun4v.xml group=sys mode=0444
490 file path=etc/sysevent/config/README group=sys mode=0444
491 file path=etc/sysevent/config/SUNW_EC_dr,ESC_dr_req,sysevent.conf group=sys
492 file path=etc/syslog.conf group=sys preserve=true
493 file path=etc/ttydefs group=sys preserve=true
494 file path=etc/ttysrchr group=sys preserve=true
495 file path=etc/user_attr group=sys preserve=true timestamp=19700101T000000Z
496 file path=etc/user_attr.d/SUNWcs group=sys
497 file path=etc/vfstab group=sys preserve=true
498 file path=lib/inet/in.mpathd mode=0555
499 file path=lib/inet/ipmgmt mode=0555
500 file path=lib/inet/netcfd mode=0555
501 file path=lib/inet/nwamd mode=0555
502 file path=lib/svc/bin/lsvcrun group=sys mode=0555
503 file path=lib/svc/bin/mfstscan group=sys mode=0555
504 file path=lib/svc/bin/restore_repository group=sys mode=0555
505 file path=lib/svc/bin/sqlite group=sys mode=0555
506 file path=lib/svc/bin/svc.configd group=sys mode=0555
507 file path=lib/svc/bin/svc.ipfd group=sys mode=0555
508 file path=lib/svc/bin/svc.startd group=sys mode=0555
509 file path=lib/svc/manifest/milestone/multi-user-server.xml group=sys mode=0444
510 file path=lib/svc/manifest/milestone/multi-user.xml group=sys mode=0444
511 file path=lib/svc/manifest/milestone/name-services.xml group=sys mode=0444
512 file path=lib/svc/manifest/milestone/network.xml group=sys mode=0444
513 file path=lib/svc/manifest/milestone/single-user.xml group=sys mode=0444
514 file path=lib/svc/manifest/milestone/sysconfig.xml group=sys mode=0444
515 file path=lib/svc/manifest/network/dlmgmt.xml group=sys mode=0444
516 file path=lib/svc/manifest/network/dns/client.xml group=sys mode=0444
517 file path=lib/svc/manifest/network/dns/install.xml group=sys mode=0444
518 file path=lib/svc/manifest/network/forwarding.xml group=sys mode=0444
519 file path=lib/svc/manifest/network/inetd_upgrade.xml group=sys mode=0444
520 file path=lib/svc/manifest/network/inetd.xml group=sys mode=0444
521 file path=lib/svc/manifest/network/ipsec/ike.xml group=sys mode=0444
522 file path=lib/svc/manifest/network/ipsec/ipsecalgs.xml group=sys mode=0444
523 file path=lib/svc/manifest/network/ipsec/manual-key.xml group=sys mode=0444

```

```

524 file path=lib/svc/manifest/network/ipsec/policy.xml group=sys mode=0444
525 file path=lib/svc/manifest/network/ldap/client.xml group=sys mode=0444
526 file path=lib/svc/manifest/network/network-initial.xml group=sys mode=0444
527 file path=lib/svc/manifest/network/network-install.xml group=sys mode=0444
528 file path=lib/svc/manifest/network/network-ipmgmt.xml group=sys mode=0444
529 file path=lib/svc/manifest/network/network-ipqos.xml group=sys mode=0444
530 file path=lib/svc/manifest/network/network-iptun.xml group=sys mode=0444
531 file path=lib/svc/manifest/network/network-location.xml group=sys mode=0444
532 file path=lib/svc/manifest/network/network-loopback.xml group=sys mode=0444
533 file path=lib/svc/manifest/network/network-netcfg.xml group=sys mode=0444
534 file path=lib/svc/manifest/network/network-netmask.xml group=sys mode=0444
535 file path=lib/svc/manifest/network/network-physical.xml group=sys mode=0444
536 file path=lib/svc/manifest/network/network-routing-setup.xml group=sys \
537 mode=0444
538 file path=lib/svc/manifest/network/network-service.xml group=sys mode=0444
539 file path=lib/svc/manifest/network/routing/legacy-routing.xml group=sys \
540 mode=0444
541 file path=lib/svc/manifest/network/rpc/bind.xml group=sys mode=0444
542 file path=lib/svc/manifest/network/rpc/keyserv.xml group=sys mode=0444
543 file path=lib/svc/manifest/network/shares/group.xml group=sys mode=0444
544 file path=lib/svc/manifest/network/shares/reparsed.xml group=sys mode=0444
545 file path=lib/svc/manifest/network/socket-filter-kssl.xml group=sys mode=0444
546 file path=lib/svc/manifest/network/ssl/kssl-proxy.xml group=sys mode=0444
547 file path=lib/svc/manifest/system/audit/auditd.xml group=sys mode=0444
548 file path=lib/svc/manifest/system/auditset.xml group=sys mode=0444
549 file path=lib/svc/manifest/system/boot-archive-update.xml group=sys mode=0444
550 file path=lib/svc/manifest/system/boot-archive.xml group=sys mode=0444
551 file path=lib/svc/manifest/system/boot-config.xml group=sys mode=0444
552 file path=lib/svc/manifest/system/consadm.xml group=sys mode=0444
553 file path=lib/svc/manifest/system/console-login.xml group=sys mode=0444
554 file path=lib/svc/manifest/system/coreadm.xml group=sys mode=0444
555 file path=lib/svc/manifest/system/cron.xml group=sys mode=0444
556 file path=lib/svc/manifest/system/cryptosvc.xml group=sys mode=0444
557 file path=lib/svc/manifest/system/device/allocate.xml group=sys mode=0444
558 file path=lib/svc/manifest/system/device/devices-audio.xml group=sys mode=0444
559 file path=lib/svc/manifest/system/device/devices-local.xml group=sys mode=0444
560 file path=lib/svc/manifest/system/device/mpxio-upgrade.xml group=sys mode=0444
561 file path=lib/svc/manifest/system/early-manifest-import.xml group=sys \
562 mode=0444
563 file path=lib/svc/manifest/system/extended-accounting.xml group=sys mode=0444
564 file path=lib/svc/manifest/system/filesystem/local-fs.xml group=sys mode=0444
565 file path=lib/svc/manifest/system/filesystem/minimal-fs.xml group=sys \
566 mode=0444
567 file path=lib/svc/manifest/system/filesystem/root-fs.xml group=sys mode=0444
568 file path=lib/svc/manifest/system/filesystem/usr-fs.xml group=sys mode=0444
569 $(i386_ONLY)file path=lib/svc/manifest/system/hostid.xml group=sys mode=0444
570 file path=lib/svc/manifest/system/hotplug.xml group=sys mode=0444
571 file path=lib/svc/manifest/system/identity.xml group=sys mode=0444
572 file path=lib/svc/manifest/system/idmap.xml group=sys mode=0444
573 file path=lib/svc/manifest/system/keymap.xml group=sys mode=0444
574 file path=lib/svc/manifest/system/logadm-upgrade.xml group=sys mode=0444
575 file path=lib/svc/manifest/system/manifest-import.xml group=sys mode=0444
576 file path=lib/svc/manifest/system/name-service-cache.xml group=sys mode=0444
577 file path=lib/svc/manifest/system/pam-upgrade.xml group=sys mode=0444
578 file path=lib/svc/manifest/system/pfexecd.xml group=sys mode=0444
579 file path=lib/svc/manifest/system/rbac.xml group=sys mode=0444
580 file path=lib/svc/manifest/system/rmtmpfiles.xml group=sys mode=0444
581 file path=lib/svc/manifest/system/sac.xml group=sys mode=0444
582 file path=lib/svc/manifest/system/svc/global.xml group=sys mode=0444
583 file path=lib/svc/manifest/system/svc/restarter.xml group=sys mode=0444
584 file path=lib/svc/manifest/system/system-log.xml group=sys mode=0444
585 file path=lib/svc/manifest/system/utmp.xml group=sys mode=0444
586 file path=lib/svc/manifest/system/vtdaemon.xml group=sys mode=0444
587 file path=lib/svc/method/boot-archive mode=0555
588 file path=lib/svc/method/boot-archive-update mode=0555
589 file path=lib/svc/method/console-login mode=0555

```

```

590 file path=lib/svc/method/devices-audio mode=0555
591 file path=lib/svc/method/devices-local mode=0555
592 file path=lib/svc/method/dns-install mode=0555
593 file path=lib/svc/method/fs-local mode=0555
594 file path=lib/svc/method/fs-minimal mode=0555
595 file path=lib/svc/method/fs-root mode=0555
596 file path=lib/svc/method/fs-usr mode=0555
597 file path=lib/svc/method/identity-domain mode=0555
598 file path=lib/svc/method/identity-node mode=0555
599 file path=lib/svc/method/inetd-upgrade mode=0555
600 file path=lib/svc/method/keymap mode=0555
601 file path=lib/svc/method/ldap-client mode=0555
602 file path=lib/svc/method/logadm-upgrade mode=0555
603 file path=lib/svc/method/manifest-import mode=0555
604 file path=lib/svc/method/mpxio-upgrade mode=0555
605 file path=lib/svc/method/net-init mode=0555
606 file path=lib/svc/method/net-install mode=0555
607 file path=lib/svc/method/net-ipmgmt mode=0555
608 file path=lib/svc/method/net-ipqos mode=0555
609 file path=lib/svc/method/net-iptun mode=0555
610 file path=lib/svc/method/net-loc mode=0555
611 file path=lib/svc/method/net-loopback mode=0555
612 file path=lib/svc/method/net-netmask mode=0555
613 file path=lib/svc/method/net-nwam mode=0555
614 file path=lib/svc/method/net-physical mode=0555
615 file path=lib/svc/method/net-routing-setup mode=0555
616 file path=lib/svc/method/net-svc mode=0555
617 file path=lib/svc/method/pam-upgrade mode=0555
618 file path=lib/svc/method/rmtmpfiles mode=0555
619 file path=lib/svc/method/rpc-bind mode=0555
620 file path=lib/svc/method/svc-allocate mode=0555
621 file path=lib/svc/method/svc-auditd mode=0555
622 file path=lib/svc/method/svc-auditset mode=0555
623 file path=lib/svc/method/svc-boot-config mode=0555
624 file path=lib/svc/method/svc-consadm mode=0555
625 file path=lib/svc/method/svc-cron mode=0555
626 file path=lib/svc/method/svc-dlmgmt mode=0555
627 file path=lib/svc/method/svc-forwarding mode=0555
628 $(i386_ONLY)file path=lib/svc/method/svc-hostid mode=0555
629 file path=lib/svc/method/svc-hotplug mode=0555
630 file path=lib/svc/method/svc-legacy-routing mode=0555
631 file path=lib/svc/method/svc-nscd mode=0555
632 file path=lib/svc/method/svc-rbac mode=0555
633 file path=lib/svc/method/svc-sockfilter mode=0555
634 file path=lib/svc/method/svc-utmpd mode=0555
635 file path=lib/svc/method/system-log mode=0555
636 file path=lib/svc/method/vtdaemon mode=0555
637 file path=lib/svc/method/yp mode=0555
638 # global.db is not needed in non-global zones, and it's pretty large.
639 file path=lib/svc/seed/global.db group=sys mode=0444 \
640 variant.opensolaris.zone=global
641 # symmetrically, nonglobal.db is not needed in global zones.
642 file path=lib/svc/seed/nonglobal.db group=sys mode=0444 \
643 variant.opensolaris.zone=nonglobal
644 file path=lib/svc/share/README mode=0444
645 file path=lib/svc/share/fs_include.sh mode=0444
646 file path=lib/svc/share/ipf_include.sh mode=0444
647 file path=lib/svc/share/mfsthistory mode=0444
648 file path=lib/svc/share/net_include.sh mode=0444
649 file path=lib/svc/share/routing_include.sh mode=0444
650 file path=lib/svc/share/smf_include.sh mode=0444
651 file path=root/.bashrc group=root preserve=true
652 file path=root/.profile group=root preserve=true
653 file path=sbin/autopush mode=0555
654 $(i386_ONLY)file path=sbin/biosdev mode=0555
655 file path=sbin/bootadm mode=0555

```

```

656 file path=sbin/cryptoadm mode=0555
657 file path=sbin/devprop mode=0555
658 file path=sbin/dhcpagent mode=0555
659 file path=sbin/dhcpinfo mode=0555
660 file path=sbin/dlmgmt mode=0555
661 file path=sbin/fdisk mode=0555
662 file path=sbin/fiocompress mode=0555
663 file path=sbin/hostconfig mode=0555
664 file path=sbin/ifconfig mode=0555
665 file path=sbin/ifparse mode=0555
666 file path=sbin/init group=sys mode=0555
667 $(i386_ONLY)file path=sbin/installgrub group=sys mode=0555
668 file path=sbin/impstat mode=0555
669 file path=sbin/mount mode=0555
670 file path=sbin/mountall group=sys mode=0555
671 file path=sbin/netstrategy mode=0555
672 file path=sbin/rc0 group=sys mode=0744
673 file path=sbin/rc1 group=sys mode=0744
674 file path=sbin/rc2 group=sys mode=0744
675 file path=sbin/rc3 group=sys mode=0744
676 file path=sbin/rcS group=sys mode=0744
677 file path=sbin/route mode=0555
678 file path=sbin/routeadm mode=0555
679 file path=sbin/soconfig mode=0555
680 file path=sbin/su.static group=sys mode=0555
681 file path=sbin/sulogin mode=0555
682 file path=sbin/swapadd group=sys mode=0744
683 file path=sbin/sync mode=0555
684 file path=sbin/tzreload mode=0555
685 file path=sbin/uadmin group=sys mode=0555
686 file path=sbin/umount mode=0555
687 file path=sbin/umountall group=sys mode=0555
688 file path=sbin/uname mode=0555
689 file path=sbin/wusbadm mode=0555
690 file path=sbin/zonename mode=0555
691 $(i386_ONLY)file path=usr/bin/$(ARCH32)/amt mode=0555
692 file path=usr/bin/$(ARCH32)/decrypt mode=0555
693 file path=usr/bin/$(ARCH32)/digest mode=0555
694 file path=usr/bin/$(ARCH32)/ksh93 mode=0555
695 $(i386_ONLY)file path=usr/bin/$(ARCH32)/newtask group=sys mode=4555
696 $(i386_ONLY)file path=usr/bin/$(ARCH32)/nohup mode=0555
697 $(i386_ONLY)file path=usr/bin/$(ARCH32)/prctl mode=0555
698 $(i386_ONLY)file path=usr/bin/$(ARCH32)/prstat mode=0555
699 $(i386_ONLY)file path=usr/bin/$(ARCH32)/ps mode=0555
700 file path=usr/bin/$(ARCH32)/savecore mode=0555
701 $(i386_ONLY)file path=usr/bin/$(ARCH32)/setuname mode=0555
702 $(i386_ONLY)file path=usr/bin/$(ARCH32)/uptime mode=4555
703 file path=usr/bin/$(ARCH64)/amt mode=0555
704 file path=usr/bin/$(ARCH64)/crle mode=0555
705 file path=usr/bin/$(ARCH64)/decrypt mode=0555
706 file path=usr/bin/$(ARCH64)/digest mode=0555
707 file path=usr/bin/$(ARCH64)/ksh93 mode=0555
708 file path=usr/bin/$(ARCH64)/ls mode=0555
709 file path=usr/bin/$(ARCH64)/moe mode=0555
710 file path=usr/bin/$(ARCH64)/newtask group=sys mode=4555
711 file path=usr/bin/$(ARCH64)/nohup mode=0555
712 file path=usr/bin/$(ARCH64)/prctl mode=0555
713 file path=usr/bin/$(ARCH64)/prstat mode=0555
714 file path=usr/bin/$(ARCH64)/ps mode=0555
715 file path=usr/bin/$(ARCH64)/savecore mode=0555
716 file path=usr/bin/$(ARCH64)/setuname mode=0555
717 file path=usr/bin/$(ARCH64)/uptime mode=4555
718 $(i386_ONLY)file path=usr/bin/addbadsec mode=0555
719 file path=usr/bin/alias mode=0555
720 file path=usr/bin/amt mode=0555
721 file path=usr/bin/arch mode=0555

```

```

722 file path=usr/bin/at group=sys mode=4755
723 file path=usr/bin/atq group=sys mode=4755
724 file path=usr/bin/atrm group=sys mode=4755
725 file path=usr/bin/auths mode=0555
726 file path=usr/bin/basename mode=0555
727 file path=usr/bin/busstat mode=0555
728 file path=usr/bin/captoinfo mode=0555
729 file path=usr/bin/cat mode=0555
730 file path=usr/bin/chgrp mode=0555
731 file path=usr/bin/chmod mode=0555
732 file path=usr/bin/chown mode=0555
733 file path=usr/bin/ckdate mode=0555
734 file path=usr/bin/ckgid mode=0555
735 file path=usr/bin/ckint mode=0555
736 file path=usr/bin/ckitem mode=0555
737 file path=usr/bin/ckkeywd mode=0555
738 file path=usr/bin/ckpath mode=0555
739 file path=usr/bin/ckrange mode=0555
740 file path=usr/bin/ckstr mode=0555
741 file path=usr/bin/cktime mode=0555
742 file path=usr/bin/ckuid mode=0555
743 file path=usr/bin/ckyorn mode=0555
744 file path=usr/bin/clear mode=0555
745 file path=usr/bin/coreadm mode=0555
746 file path=usr/bin/cp mode=0555
747 file path=usr/bin/cpio mode=0555
748 file path=usr/bin/crle mode=0555
749 file path=usr/bin/crontab mode=4555
750 file path=usr/bin/crypt mode=0555
751 file path=usr/bin/csh mode=0555
752 file path=usr/bin/ctrunc mode=0555
753 file path=usr/bin/ctstat mode=0555
754 file path=usr/bin/ctwatch mode=0555
755 file path=usr/bin/date mode=0555
756 file path=usr/bin/dd mode=0555
757 file path=usr/bin/devattr mode=0555
758 file path=usr/bin/devfree mode=0555
759 file path=usr/bin/devreserv mode=0555
760 file path=usr/bin/dirname mode=0555
761 $(i386_ONLY)file path=usr/bin/diskscan mode=0555
762 file path=usr/bin/domainname mode=0555
763 file path=usr/bin/du mode=0555
764 file path=usr/bin/dumpcs mode=0555
765 file path=usr/bin/dumpkeys mode=0555
766 file path=usr/bin/echo mode=0555
767 file path=usr/bin/ed mode=0555
768 file path=usr/bin/egrep mode=0555
769 file path=usr/bin/eject mode=0555
770 file path=usr/bin/env mode=0555
771 file path=usr/bin/expr mode=0555
772 file path=usr/bin/false mode=0555
773 file path=usr/bin/fdetach mode=0555
774 file path=usr/bin/fdformat mode=4555
775 file path=usr/bin/fgrep mode=0555
776 file path=usr/bin/file mode=0555
777 file path=usr/bin/find mode=0555
778 file path=usr/bin/fmt mode=0555
779 file path=usr/bin/fmtmsg mode=0555
780 file path=usr/bin/fold mode=0555
781 file path=usr/bin/fsstat mode=0555
782 file path=usr/bin/geniconvtbl mode=0555
783 file path=usr/bin/getconf mode=0555
784 file path=usr/bin/getdev mode=0555
785 file path=usr/bin/getdgrp mode=0555
786 file path=usr/bin/getent mode=0555
787 file path=usr/bin/getfacl mode=0555

```

```

788 file path=usr/bin/getopt mode=0555
789 file path=usr/bin/gettext mode=0555
790 file path=usr/bin/getvol mode=0555
791 file path=usr/bin/grep mode=0555
792 file path=usr/bin/groups mode=0555
793 file path=usr/bin/head mode=0555
794 file path=usr/bin/hostid mode=0555
795 file path=usr/bin/hostname mode=0555
796 file path=usr/bin/i286 mode=0555
797 file path=usr/bin/iconv mode=0555
798 file path=usr/bin/id mode=0555
799 file path=usr/bin/infocmp mode=0555
800 file path=usr/bin/iostat mode=0555
801 file path=usr/bin/isainfo mode=0555
802 file path=usr/bin/isalist mode=0555
803 file path=usr/bin/kbd mode=0555
804 file path=usr/bin/keylogin mode=0555
805 file path=usr/bin/keylogout mode=0555
806 file path=usr/bin/kmfcfg mode=0555
807 file path=usr/bin/kvmstat mode=0555
808 file path=usr/bin/line mode=0555
809 file path=usr/bin/listdgrp mode=0555
810 file path=usr/bin/listusers mode=0555
811 file path=usr/bin/loadkeys mode=0555
812 file path=usr/bin/logger mode=0555
813 file path=usr/bin/login mode=4555
814 file path=usr/bin/logins mode=0750
815 file path=usr/bin/ls mode=0555
816 file path=usr/bin/m4 mode=0555
817 file path=usr/bin/mach mode=0555
818 file path=usr/bin/mail group=mail mode=2511
819 file path=usr/bin/mailx group=mail mode=2511
820 file path=usr/bin/makedev mode=0555
821 file path=usr/bin/mesg mode=0555
822 file path=usr/bin/mkdir mode=0555
823 file path=usr/bin/mkpwdict mode=0555
824 file path=usr/bin/mktemp mode=0555
825 file path=usr/bin/moe mode=0555
826 file path=usr/bin/more mode=0555
827 file path=usr/bin/mpstat mode=0555
828 file path=usr/bin/mt mode=0555
829 file path=usr/bin/netstat mode=0555
830 file path=usr/bin/newgrp group=sys mode=4755
831 file path=usr/bin/nice mode=0555
832 file path=usr/bin/optisa mode=0555
833 file path=usr/bin/pagesize mode=0555
834 file path=usr/bin/passwd group=sys mode=6555
835 file path=usr/bin/pathchk mode=0555
836 file path=usr/bin/pax mode=0555
837 file path=usr/bin/pfexec mode=0555
838 file path=usr/bin/pg mode=0555
839 file path=usr/bin/pgrep mode=0555
840 file path=usr/bin/pktool mode=0555
841 file path=usr/bin/pr mode=0555
842 file path=usr/bin/printf mode=0555
843 file path=usr/bin/priocntl mode=0555
844 file path=usr/bin/profiles mode=0555
845 file path=usr/bin/projects mode=0555
846 file path=usr/bin/putdev mode=0555
847 file path=usr/bin/putdgrp mode=0555
848 file path=usr/bin/pwd mode=0555
849 file path=usr/bin/renice mode=0555
850 file path=usr/bin/rm mode=0555
851 file path=usr/bin/rmdir mode=0555
852 file path=usr/bin/roles mode=0555
853 file path=usr/bin/rpcinfo mode=0555

```

```

854 file path=usr/bin/runat mode=0555
855 file path=usr/bin/script mode=0555
856 file path=usr/bin/sed mode=0555
857 file path=usr/bin/setfacl mode=0555
858 file path=usr/bin/setpgrp group=sys mode=0555
859 file path=usr/bin/settime mode=0555
860 file path=usr/bin/shcomp mode=0555
861 file path=usr/bin/strchg group=root mode=0555
862 file path=usr/bin/strconf group=root mode=0555
863 file path=usr/bin/stty mode=0555
864 file path=usr/bin/su group=sys mode=4555
865 file path=usr/bin/svcprop mode=0555
866 file path=usr/bin/svcs mode=0555
867 file path=usr/bin/tabs mode=0555
868 file path=usr/bin/tail mode=0555
869 file path=usr/bin/tic mode=0555
870 file path=usr/bin/time mode=0555
871 file path=usr/bin/tip mode=4511 owner=uucp
872 file path=usr/bin/tpmadm mode=0555
873 file path=usr/bin/tput mode=0555
874 file path=usr/bin/tr mode=0555
875 file path=usr/bin/true mode=0555
876 file path=usr/bin/tty mode=0555
877 file path=usr/bin/tzselect mode=0555
878 file path=usr/bin/userattr mode=0555
879 file path=usr/bin/vmstat mode=0555
880 file path=usr/bin/which mode=0555
881 file path=usr/bin/who mode=0555
882 file path=usr/bin/wracct mode=0555
883 file path=usr/bin/write group=tty mode=2555
884 file path=usr/bin/xargs mode=0555
885 file path=usr/bin/xstr mode=0555
886 file path=usr/has/bin/edit mode=0555
887 file path=usr/has/bin/sh mode=0555
888 file path=usr/has/man/manlhas/edit.lhas
889 file path=usr/has/man/manlhas/ex.lhas
890 file path=usr/has/man/manlhas/sh.lhas
891 file path=usr/has/man/manlhas/vi.lhas
892 file path=usr/kernel/drv/$(ARCH64)/dump group=sys
893 file path=usr/kernel/drv/$(ARCH64)/fssnap group=sys
894 file path=usr/kernel/drv/$(ARCH64)/kstat group=sys
895 file path=usr/kernel/drv/$(ARCH64)/ksyms group=sys
896 file path=usr/kernel/drv/$(ARCH64)/logindmux group=sys
897 file path=usr/kernel/drv/$(ARCH64)/ptm group=sys
898 file path=usr/kernel/drv/$(ARCH64)/pts group=sys
899 $(i386_ONLY)file path=usr/kernel/drv/dump group=sys
900 file path=usr/kernel/drv/dump.conf group=sys
901 $(i386_ONLY)file path=usr/kernel/drv/fssnap group=sys
902 file path=usr/kernel/drv/fssnap.conf group=sys
903 $(i386_ONLY)file path=usr/kernel/drv/kstat group=sys
904 file path=usr/kernel/drv/kstat.conf group=sys
905 $(i386_ONLY)file path=usr/kernel/drv/ksyms group=sys
906 file path=usr/kernel/drv/ksyms.conf group=sys
907 $(i386_ONLY)file path=usr/kernel/drv/logindmux group=sys
908 file path=usr/kernel/drv/logindmux.conf group=sys
909 $(i386_ONLY)file path=usr/kernel/drv/ptm group=sys
910 file path=usr/kernel/drv/ptm.conf group=sys
911 $(i386_ONLY)file path=usr/kernel/drv/pts group=sys
912 file path=usr/kernel/drv/pts.conf group=sys
913 file path=usr/kernel/exec/$(ARCH64)/javaexec group=sys mode=0755
914 file path=usr/kernel/exec/$(ARCH64)/shbinexec group=sys mode=0755
915 $(i386_ONLY)file path=usr/kernel/exec/javaexec group=sys mode=0755
916 $(i386_ONLY)file path=usr/kernel/exec/shbinexec group=sys mode=0755
917 file path=usr/kernel/fs/$(ARCH64)/fdfs group=sys mode=0755
918 file path=usr/kernel/fs/$(ARCH64)/pcfs group=sys mode=0755
919 $(i386_ONLY)file path=usr/kernel/fs/fdfs group=sys mode=0755

```

```

920 $(i386_ONLY)file path=usr/kernel/fs/pcfs group=sys mode=0755
921 file path=usr/kernel/sched/$(ARCH64)/FX group=sys mode=0755
922 file path=usr/kernel/sched/$(ARCH64)/FX_DPTBL group=sys mode=0755
923 file path=usr/kernel/sched/$(ARCH64)/IA group=sys mode=0755
924 file path=usr/kernel/sched/$(ARCH64)/RT group=sys mode=0755
925 file path=usr/kernel/sched/$(ARCH64)/RT_DPTBL group=sys mode=0755
926 $(i386_ONLY)file path=usr/kernel/sched/FX group=sys mode=0755
927 $(i386_ONLY)file path=usr/kernel/sched/FX_DPTBL group=sys mode=0755
928 $(i386_ONLY)file path=usr/kernel/sched/IA group=sys mode=0755
929 $(i386_ONLY)file path=usr/kernel/sched/RT group=sys mode=0755
930 $(i386_ONLY)file path=usr/kernel/sched/RT_DPTBL group=sys mode=0755
931 file path=usr/kernel/strmod/$(ARCH64)/cryptmod group=sys mode=0755
932 file path=usr/kernel/strmod/$(ARCH64)/rlmod group=sys mode=0755
933 file path=usr/kernel/strmod/$(ARCH64)/telmod group=sys mode=0755
934 $(i386_ONLY)file path=usr/kernel/strmod/cryptmod group=sys mode=0755
935 $(i386_ONLY)file path=usr/kernel/strmod/rlmod group=sys mode=0755
936 $(i386_ONLY)file path=usr/kernel/strmod/telmod group=sys mode=0755
937 file path=usr/kernel/sys/$(ARCH64)/acctctl group=sys mode=0755
938 file path=usr/kernel/sys/$(ARCH64)/exacctsys group=sys mode=0755
939 file path=usr/kernel/sys/$(ARCH64)/sysacct group=sys mode=0755
940 $(i386_ONLY)file path=usr/kernel/sys/acctctl group=sys mode=0755
941 $(i386_ONLY)file path=usr/kernel/sys/exacctsys group=sys mode=0755
942 $(i386_ONLY)file path=usr/kernel/sys/sysacct group=sys mode=0755
943 file path=usr/kvm/README group=sys
944 file path=usr/lib/$(ARCH64)/libshare.so.1
945 file path=usr/lib/audit/audit_record_attr mode=0444
946 file path=usr/lib/calprog mode=0555
947 file path=usr/lib/class/FX/FXdispadmin mode=0555
948 file path=usr/lib/class/FX/FXprioctl mode=0555
949 file path=usr/lib/class/IA/IAdispadmin mode=0555
950 file path=usr/lib/class/IA/IAprioctl mode=0555
951 file path=usr/lib/class/RT/RTdispadmin mode=0555
952 file path=usr/lib/class/RT/RTprioctl mode=0555
953 file path=usr/lib/class/SDC/SDCdispadmin mode=0555
954 file path=usr/lib/class/SDC/SDCprioctl mode=0555
955 file path=usr/lib/class/TS/TSdispadmin mode=0555
956 file path=usr/lib/class/TS/TSprioctl mode=0555
957 file path=usr/lib/devfsadm/linkmod/SUNW_audio_link.so group=sys
958 file path=usr/lib/devfsadm/linkmod/SUNW_cfg_link.so group=sys
959 file path=usr/lib/devfsadm/linkmod/SUNW_disk_link.so group=sys
960 file path=usr/lib/devfsadm/linkmod/SUNW_fssnap_link.so group=sys
961 file path=usr/lib/devfsadm/linkmod/SUNW_ieee1394_link.so group=sys
962 file path=usr/lib/devfsadm/linkmod/SUNW_lofi_link.so group=sys
963 file path=usr/lib/devfsadm/linkmod/SUNW_md_link.so group=sys
964 file path=usr/lib/devfsadm/linkmod/SUNW_misc_link.so group=sys
965 file path=usr/lib/devfsadm/linkmod/SUNW_misc_link.$(ARCH).so group=sys
966 file path=usr/lib/devfsadm/linkmod/SUNW_port_link.so group=sys
967 file path=usr/lib/devfsadm/linkmod/SUNW_ramdisk_link.so group=sys
968 file path=usr/lib/devfsadm/linkmod/SUNW_sgen_link.so group=sys
969 file path=usr/lib/devfsadm/linkmod/SUNW_smp_link.so group=sys
970 file path=usr/lib/devfsadm/linkmod/SUNW_tape_link.so group=sys
971 file path=usr/lib/devfsadm/linkmod/SUNW_usb_link.so group=sys
972 $(i386_ONLY)file path=usr/lib/devfsadm/linkmod/SUNW_xen_link.so group=sys
973 file path=usr/lib/diffh mode=0555
974 file path=usr/lib/expreserve mode=0555
975 file path=usr/lib/exrecover mode=0555
976 file path=usr/lib/fs/cachefs/cachefsd mode=0555
977 file path=usr/lib/fs/cachefs/cachefslog mode=0555
978 file path=usr/lib/fs/cachefs/cachefspack mode=0555
979 file path=usr/lib/fs/cachefs/cachefsstat mode=0555
980 file path=usr/lib/fs/cachefs/cachefswssize mode=0555
981 file path=usr/lib/fs/cachefs/cfsadmin mode=0555
982 file path=usr/lib/fs/cachefs/cfsfstype mode=0555
983 file path=usr/lib/fs/cachefs/cfstagchk mode=0555
984 file path=usr/lib/fs/cachefs/dfshares mode=0555
985 file path=usr/lib/fs/cachefs/fsck mode=0555

```

```

986 file path=usr/lib/fs/cachefs/mount mode=0555
987 file path=usr/lib/fs/cachefs/share mode=0555
988 file path=usr/lib/fs/cachefs/umount mode=0555
989 file path=usr/lib/fs/cachefs/unshare mode=0555
990 file path=usr/lib/fs/ctfs/mount mode=0555
991 file path=usr/lib/fs/fd/mount mode=0555
992 file path=usr/lib/fs/hsfs/fstyp.so.1 mode=0555
993 file path=usr/lib/fs/hsfs/labelit mode=0555
994 file path=usr/lib/fs/lofs/mount mode=0555
995 file path=usr/lib/fs/mntfs/mount mode=0555
996 file path=usr/lib/fs/objfs/mount mode=0555
997 file path=usr/lib/fs/proc/mount mode=0555
998 file path=usr/lib/fs/sharefs/mount mode=0555
999 file path=usr/lib/fs/tmpfs/mount mode=0555
1000 file path=usr/lib/fs/ufs/clri mode=0555
1001 file path=usr/lib/fs/ufs/df mode=0555
1002 file path=usr/lib/fs/ufs/edquota mode=0555
1003 file path=usr/lib/fs/ufs/ff mode=0555
1004 file path=usr/lib/fs/ufs/fsck mode=0555
1005 file path=usr/lib/fs/ufs/fsckall mode=0555
1006 file path=usr/lib/fs/ufs/fsdb mode=0555
1007 file path=usr/lib/fs/ufs/fsirand mode=0555
1008 file path=usr/lib/fs/ufs/fssnap mode=0555
1009 file path=usr/lib/fs/ufs/fstyp.so.1 mode=0555
1010 file path=usr/lib/fs/ufs/labelit mode=0555
1011 file path=usr/lib/fs/ufs/lockfs mode=0555
1012 file path=usr/lib/fs/ufs/mkfs mode=0555
1013 file path=usr/lib/fs/ufs/ncheck mode=0555
1014 file path=usr/lib/fs/ufs/newfs mode=0555
1015 file path=usr/lib/fs/ufs/quot mode=0555
1016 file path=usr/lib/fs/ufs/quota mode=4555
1017 file path=usr/lib/fs/ufs/quotacheck mode=0555
1018 file path=usr/lib/fs/ufs/quotaoff mode=0555
1019 file path=usr/lib/fs/ufs/repquota mode=0555
1020 file path=usr/lib/fs/ufs/tunefs mode=0555
1021 file path=usr/lib/fs/ufs/ufsdump mode=4555
1022 file path=usr/lib/fs/ufs/ufsrestore mode=4555
1023 file path=usr/lib/fs/ufs/volcopy mode=0555
1024 file path=usr/lib/getoptcvt mode=0555
1025 file path=usr/lib/help/auths/locale/C/AllSolAuthsHeader.html
1026 file path=usr/lib/help/auths/locale/C/AuditHeader.html
1027 file path=usr/lib/help/auths/locale/C/AuthJobsAdmin.html
1028 file path=usr/lib/help/auths/locale/C/AuthJobsUser.html
1029 file path=usr/lib/help/auths/locale/C/AuthProfmgrAssign.html
1030 file path=usr/lib/help/auths/locale/C/AuthProfmgrDelegate.html
1031 file path=usr/lib/help/auths/locale/C/AuthProfmgrExecattrWrite.html
1032 file path=usr/lib/help/auths/locale/C/AuthProfmgrRead.html
1033 file path=usr/lib/help/auths/locale/C/AuthProfmgrWrite.html
1034 file path=usr/lib/help/auths/locale/C/AuthReadNDMP.html
1035 file path=usr/lib/help/auths/locale/C/AuthReadSMB.html
1036 file path=usr/lib/help/auths/locale/C/AuthRoleAssign.html
1037 file path=usr/lib/help/auths/locale/C/AuthRoleDelegate.html
1038 file path=usr/lib/help/auths/locale/C/AuthRoleWrite.html
1039 file path=usr/lib/help/auths/locale/C/BindStates.html
1040 file path=usr/lib/help/auths/locale/C/DevAllocHeader.html
1041 file path=usr/lib/help/auths/locale/C/DevAllocate.html
1042 file path=usr/lib/help/auths/locale/C/DevConfig.html
1043 file path=usr/lib/help/auths/locale/C/DevGrant.html
1044 file path=usr/lib/help/auths/locale/C/DevRevoke.html
1045 file path=usr/lib/help/auths/locale/C/DhccpmgrHeader.html
1046 file path=usr/lib/help/auths/locale/C/DhccpmgrWrite.html
1047 file path=usr/lib/help/auths/locale/C/HotplugHeader.html
1048 file path=usr/lib/help/auths/locale/C/HotplugModify.html
1049 file path=usr/lib/help/auths/locale/C/IdmapRules.html
1050 file path=usr/lib/help/auths/locale/C/JobHeader.html
1051 file path=usr/lib/help/auths/locale/C/JobsGrant.html

```

1052 file path=usr/lib/help/auths/locale/C/LinkSecurity.html
 1053 file path=usr/lib/help/auths/locale/C/LoginEnable.html
 1054 file path=usr/lib/help/auths/locale/C/LoginHeader.html
 1055 file path=usr/lib/help/auths/locale/C/LoginRemote.html
 1056 file path=usr/lib/help/auths/locale/C/NetworkAutoconfRead.html
 1057 file path=usr/lib/help/auths/locale/C/NetworkAutoconfSelect.html
 1058 file path=usr/lib/help/auths/locale/C/NetworkAutoconfWlan.html
 1059 file path=usr/lib/help/auths/locale/C/NetworkAutoconfWrite.html
 1060 file path=usr/lib/help/auths/locale/C/NetworkHeader.html
 1061 file path=usr/lib/help/auths/locale/C/NetworkILBHeader.html
 1062 file path=usr/lib/help/auths/locale/C/NetworkILBEnable.html
 1063 file path=usr/lib/help/auths/locale/C/NetworkInterfaceConfig.html
 1064 file path=usr/lib/help/auths/locale/C/NetworkVRRP.html
 1065 file path=usr/lib/help/auths/locale/C/PriAdmin.html
 1066 file path=usr/lib/help/auths/locale/C/ProfmgrHeader.html
 1067 file path=usr/lib/help/auths/locale/C/RoleHeader.html
 1068 file path=usr/lib/help/auths/locale/C/SmfAllocate.html
 1069 file path=usr/lib/help/auths/locale/C/SmfAutofsStates.html
 1070 file path=usr/lib/help/auths/locale/C/SmfCoreadmStates.html
 1071 file path=usr/lib/help/auths/locale/C/SmfCronStates.html
 1072 file path=usr/lib/help/auths/locale/C/SmfExAcctFlowStates.html
 1073 file path=usr/lib/help/auths/locale/C/SmfExAcctNetStates.html
 1074 file path=usr/lib/help/auths/locale/C/SmfExAcctProcessStates.html
 1075 file path=usr/lib/help/auths/locale/C/SmfExAcctTaskStates.html
 1076 file path=usr/lib/help/auths/locale/C/SmfHeader.html
 1077 file path=usr/lib/help/auths/locale/C/SmfILBStates.html
 1078 file path=usr/lib/help/auths/locale/C/SmfIPsecStates.html
 1079 file path=usr/lib/help/auths/locale/C/SmfIdmapStates.html
 1080 file path=usr/lib/help/auths/locale/C/SmfInetdStates.html
 1081 file path=usr/lib/help/auths/locale/C/SmfLocationStates.html
 1082 file path=usr/lib/help/auths/locale/C/SmfMDNSStates.html
 1083 file path=usr/lib/help/auths/locale/C/SmfManageAudit.html
 1084 file path=usr/lib/help/auths/locale/C/SmfManageHeader.html
 1085 file path=usr/lib/help/auths/locale/C/SmfManageHotplug.html
 1086 file path=usr/lib/help/auths/locale/C/SmfManageZFSSnap.html
 1087 file path=usr/lib/help/auths/locale/C/SmfModifyAppl.html
 1088 file path=usr/lib/help/auths/locale/C/SmfModifyDepend.html
 1089 file path=usr/lib/help/auths/locale/C/SmfModifyFramework.html
 1090 file path=usr/lib/help/auths/locale/C/SmfModifyHeader.html
 1091 file path=usr/lib/help/auths/locale/C/SmfModifyMethod.html
 1092 file path=usr/lib/help/auths/locale/C/SmfNADDStates.html
 1093 file path=usr/lib/help/auths/locale/C/SmfNDMPStates.html
 1094 file path=usr/lib/help/auths/locale/C/SmfNWAMStates.html
 1095 file path=usr/lib/help/auths/locale/C/SmfNscdStates.html
 1096 file path=usr/lib/help/auths/locale/C/SmfPowerStates.html
 1097 file path=usr/lib/help/auths/locale/C/SmfReparseStates.html
 1098 file path=usr/lib/help/auths/locale/C/SmfRoutingStates.html
 1099 file path=usr/lib/help/auths/locale/C/SmfSMBFSStates.html
 1100 file path=usr/lib/help/auths/locale/C/SmfSMBStates.html
 1101 file path=usr/lib/help/auths/locale/C/SmfSendmailStates.html
 1102 file path=usr/lib/help/auths/locale/C/SmfSshStates.html
 1103 file path=usr/lib/help/auths/locale/C/SmfSyslogStates.html
 1104 file path=usr/lib/help/auths/locale/C/SmfVRRPStates.html
 1105 file path=usr/lib/help/auths/locale/C/SmfValueAudit.html
 1106 file path=usr/lib/help/auths/locale/C/SmfValueCoreadm.html
 1107 file path=usr/lib/help/auths/locale/C/SmfValueExAcctFlow.html
 1108 file path=usr/lib/help/auths/locale/C/SmfValueExAcctNet.html
 1109 file path=usr/lib/help/auths/locale/C/SmfValueExAcctProcess.html
 1110 file path=usr/lib/help/auths/locale/C/SmfValueExAcctTask.html
 1111 file path=usr/lib/help/auths/locale/C/SmfValueFirewall.html
 1112 file path=usr/lib/help/auths/locale/C/SmfValueHeader.html
 1113 file path=usr/lib/help/auths/locale/C/SmfValueIPsec.html
 1114 file path=usr/lib/help/auths/locale/C/SmfValueIdmap.html
 1115 file path=usr/lib/help/auths/locale/C/SmfValueInetd.html
 1116 file path=usr/lib/help/auths/locale/C/SmfValueMDNS.html
 1117 file path=usr/lib/help/auths/locale/C/SmfValueNADD.html

1118 file path=usr/lib/help/auths/locale/C/SmfValueNDMP.html
 1119 file path=usr/lib/help/auths/locale/C/SmfValueNWAM.html
 1120 file path=usr/lib/help/auths/locale/C/SmfValueRouting.html
 1121 file path=usr/lib/help/auths/locale/C/SmfValueSMB.html
 1122 file path=usr/lib/help/auths/locale/C/SmfValueVscan.html
 1123 file path=usr/lib/help/auths/locale/C/SmfValueVt.html
 1124 file path=usr/lib/help/auths/locale/C/SmfVscanStates.html
 1125 file path=usr/lib/help/auths/locale/C/SmfVtStates.html
 1126 file path=usr/lib/help/auths/locale/C/SmfWpaStates.html
 1127 file path=usr/lib/help/auths/locale/C/SysCpuPowerMgmt.html
 1128 file path=usr/lib/help/auths/locale/C/SysDate.html
 1129 file path=usr/lib/help/auths/locale/C/SysHeader.html
 1130 file path=usr/lib/help/auths/locale/C/SysMaintenance.html
 1131 file path=usr/lib/help/auths/locale/C/SysPowerMgmtBrightness.html
 1132 file path=usr/lib/help/auths/locale/C/SysPowerMgmtHeader.html
 1133 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspend.html
 1134 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspendtoDisk.html
 1135 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspendtoRAM.html
 1136 file path=usr/lib/help/auths/locale/C/SysShutdown.html
 1137 file path=usr/lib/help/auths/locale/C/SysSyseventRead.html
 1138 file path=usr/lib/help/auths/locale/C/SysSyseventWrite.html
 1139 file path=usr/lib/help/auths/locale/C/WifiConfig.html
 1140 file path=usr/lib/help/auths/locale/C/WifiWep.html
 1141 file path=usr/lib/help/auths/locale/C/ZoneCloneFrom.html
 1142 file path=usr/lib/help/auths/locale/C/ZoneHeader.html
 1143 file path=usr/lib/help/auths/locale/C/ZoneLogin.html
 1144 file path=usr/lib/help/auths/locale/C/ZoneManage.html
 1145 file path=usr/lib/help/profiles/locale/C/RtAcctadm.html
 1146 file path=usr/lib/help/profiles/locale/C/RtAll.html
 1147 file path=usr/lib/help/profiles/locale/C/RtAuditCfg.html
 1148 file path=usr/lib/help/profiles/locale/C/RtAuditCtrl.html
 1149 file path=usr/lib/help/profiles/locale/C/RtAuditReview.html
 1150 file path=usr/lib/help/profiles/locale/C/RtCPUPowerManagement.html
 1151 file path=usr/lib/help/profiles/locale/C/RtConsUser.html
 1152 file path=usr/lib/help/profiles/locale/C/RtContractObserver.html
 1153 file path=usr/lib/help/profiles/locale/C/RtCronMngmnt.html
 1154 file path=usr/lib/help/profiles/locale/C/RtCryptMngmnt.html
 1155 file path=usr/lib/help/profiles/locale/C/RtDHCPMngmnt.html
 1156 file path=usr/lib/help/profiles/locale/C/RtDatAdmin.html
 1157 file path=usr/lib/help/profiles/locale/C/RtDefault.html
 1158 file path=usr/lib/help/profiles/locale/C/RtDeviceMngmnt.html
 1159 file path=usr/lib/help/profiles/locale/C/RtDeviceSecurity.html
 1160 file path=usr/lib/help/profiles/locale/C/RtExAcctFlow.html
 1161 file path=usr/lib/help/profiles/locale/C/RtExAcctNet.html
 1162 file path=usr/lib/help/profiles/locale/C/RtExAcctProcess.html
 1163 file path=usr/lib/help/profiles/locale/C/RtExAcctTask.html
 1164 file path=usr/lib/help/profiles/locale/C/RtFTPMngmnt.html
 1165 file path=usr/lib/help/profiles/locale/C/RtFileSysMngmnt.html
 1166 file path=usr/lib/help/profiles/locale/C/RtFileSysSecurity.html
 1167 file path=usr/lib/help/profiles/locale/C/RtHotplugMngmnt.html
 1168 file path=usr/lib/help/profiles/locale/C/RtIPFilterMngmnt.html
 1169 file path=usr/lib/help/profiles/locale/C/RtIdmapMngmnt.html
 1170 file path=usr/lib/help/profiles/locale/C/RtIdmapNameRulesMngmnt.html
 1171 file path=usr/lib/help/profiles/locale/C/RtInetdMngmnt.html
 1172 file path=usr/lib/help/profiles/locale/C/RtKerberosClnMngmnt.html
 1173 file path=usr/lib/help/profiles/locale/C/RtKerberosSrvrMngmnt.html
 1174 file path=usr/lib/help/profiles/locale/C/RtLogMngmnt.html
 1175 file path=usr/lib/help/profiles/locale/C/RtMailMngmnt.html
 1176 file path=usr/lib/help/profiles/locale/C/RtMaintAndRepair.html
 1177 file path=usr/lib/help/profiles/locale/C/RtMediaBkup.html
 1178 file path=usr/lib/help/profiles/locale/C/RtMediaCtlg.html
 1179 file path=usr/lib/help/profiles/locale/C/RtMediaRestore.html
 1180 file path=usr/lib/help/profiles/locale/C/RtNDMPMngmnt.html
 1181 file path=usr/lib/help/profiles/locale/C/RtNameServiceAdmin.html
 1182 file path=usr/lib/help/profiles/locale/C/RtNameServiceSecure.html
 1183 file path=usr/lib/help/profiles/locale/C/RtNetAutoconfAdmin.html

```

1184 file path=usr/lib/help/profiles/locale/C/RtNetAutoconfUser.html
1185 file path=usr/lib/help/profiles/locale/C/RtNetILB.html
1186 file path=usr/lib/help/profiles/locale/C/RtNetIPsec.html
1187 file path=usr/lib/help/profiles/locale/C/RtNetLinkSecure.html
1188 file path=usr/lib/help/profiles/locale/C/RtNetMngmnt.html
1189 file path=usr/lib/help/profiles/locale/C/RtNetObservability.html
1190 file path=usr/lib/help/profiles/locale/C/RtNetSecure.html
1191 file path=usr/lib/help/profiles/locale/C/RtNetVRRP.html
1192 file path=usr/lib/help/profiles/locale/C/RtNetWifiMngmnt.html
1193 file path=usr/lib/help/profiles/locale/C/RtNetWifiSecure.html
1194 file path=usr/lib/help/profiles/locale/C/RtObAccessMngmnt.html
1195 file path=usr/lib/help/profiles/locale/C/RtOperator.html
1196 file path=usr/lib/help/profiles/locale/C/RtPriAdmin.html
1197 file path=usr/lib/help/profiles/locale/C/RtPrntAdmin.html
1198 file path=usr/lib/help/profiles/locale/C/RtProcManagement.html
1199 file path=usr/lib/help/profiles/locale/C/RtReparsingMngmnt.html
1200 file path=usr/lib/help/profiles/locale/C/RtReservedProfile.html
1201 file path=usr/lib/help/profiles/locale/C/RtRightsDelegate.html
1202 file path=usr/lib/help/profiles/locale/C/RtSMBFSMngmnt.html
1203 file path=usr/lib/help/profiles/locale/C/RtSMBMngmnt.html
1204 file path=usr/lib/help/profiles/locale/C/RtSoftwareInstall.html
1205 file path=usr/lib/help/profiles/locale/C/RtSysAdmin.html
1206 file path=usr/lib/help/profiles/locale/C/RtSysEvMngmnt.html
1207 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmt.html
1208 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtBrightness.html
1209 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspend.html
1210 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspendtoDisk.html
1211 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspendtoRAM.html
1212 file path=usr/lib/help/profiles/locale/C/RtUserMngmnt.html
1213 file path=usr/lib/help/profiles/locale/C/RtUserSecurity.html
1214 file path=usr/lib/help/profiles/locale/C/RtVscanMngmnt.html
1215 file path=usr/lib/help/profiles/locale/C/RtZFSFileSysMngmnt.html
1216 file path=usr/lib/help/profiles/locale/C/RtZFSStorageMngmnt.html
1217 file path=usr/lib/help/profiles/locale/C/RtZoneMngmnt.html
1218 file path=usr/lib/help/profiles/locale/C/RtZoneSecurity.html
1219 file path=usr/lib/hotplugd mode=0555
1220 file path=usr/lib/iconv/646da.8859.t mode=0444
1221 file path=usr/lib/iconv/646de.8859.t mode=0444
1222 file path=usr/lib/iconv/646en.8859.t mode=0444
1223 file path=usr/lib/iconv/646es.8859.t mode=0444
1224 file path=usr/lib/iconv/646fr.8859.t mode=0444
1225 file path=usr/lib/iconv/646it.8859.t mode=0444
1226 file path=usr/lib/iconv/646sv.8859.t mode=0444
1227 file path=usr/lib/iconv/8859.646.t mode=0444
1228 file path=usr/lib/iconv/8859.646da.t mode=0444
1229 file path=usr/lib/iconv/8859.646de.t mode=0444
1230 file path=usr/lib/iconv/8859.646en.t mode=0444
1231 file path=usr/lib/iconv/8859.646es.t mode=0444
1232 file path=usr/lib/iconv/8859.646fr.t mode=0444
1233 file path=usr/lib/iconv/8859.646it.t mode=0444
1234 file path=usr/lib/iconv/8859.646sv.t mode=0444
1235 file path=usr/lib/iconv/iconv_data mode=0444
1236 file path=usr/lib/idmapd mode=0555
1237 file path=usr/lib/inet/$(ARCH32)/in.iked mode=0555
1238 file path=usr/lib/inet/$(ARCH64)/in.iked mode=0555
1239 file path=usr/lib/inet/certdb mode=0555
1240 file path=usr/lib/inet/certlocal mode=0555
1241 file path=usr/lib/inet/certrldb mode=0555
1242 file path=usr/lib/inet/inetd mode=0555
1243 file path=usr/lib/intrd mode=0555
1244 file path=usr/lib/isaexec mode=0555
1245 file path=usr/lib/kssladm mode=0555
1246 $(sparc_ONLY)file path=usr/lib/ld.so
1247 file path=usr/lib/libshare.so.1
1248 file path=usr/lib/makekey mode=0555
1249 file path=usr/lib/more.help

```

```

1250 file path=usr/lib/newsyslog group=sys mode=0555
1251 file path=usr/lib/passmgmt group=sys mode=0555
1252 file path=usr/lib/pci/pcidr mode=0555
1253 file path=usr/lib/pci/pcidr_plugin.so
1254 file path=usr/lib/pfexecd mode=0555
1255 file path=usr/lib/platexec mode=0555
1256 file path=usr/lib/rcm/modules/SUNW_aggr_rcm.so mode=0555
1257 file path=usr/lib/rcm/modules/SUNW_cluster_rcm.so mode=0555
1258 file path=usr/lib/rcm/modules/SUNW_dump_rcm.so mode=0555
1259 file path=usr/lib/rcm/modules/SUNW_files_rcm.so mode=0555
1260 file path=usr/lib/rcm/modules/SUNW_ibpart_rcm.so mode=0555
1261 file path=usr/lib/rcm/modules/SUNW_ip_anon_rcm.so mode=0555
1262 file path=usr/lib/rcm/modules/SUNW_ip_rcm.so mode=0555
1263 file path=usr/lib/rcm/modules/SUNW_mpxio_rcm.so mode=0555
1264 file path=usr/lib/rcm/modules/SUNW_network_rcm.so mode=0555
1265 file path=usr/lib/rcm/modules/SUNW_swap_rcm.so mode=0555
1266 $(sparc_ONLY)file path=usr/lib/rcm/modules/SUNW_ttymux_rcm.so mode=0555
1267 file path=usr/lib/rcm/modules/SUNW_vlan_rcm.so mode=0555
1268 file path=usr/lib/rcm/modules/SUNW_vnic_rcm.so mode=0555
1269 file path=usr/lib/rcm/rcm_daemon mode=0555
1270 file path=usr/lib/reparse/reparsed group=sys mode=0555
1271 file path=usr/lib/saf/listen group=sys mode=0755
1272 file path=usr/lib/saf/nlps_server group=sys mode=0755
1273 file path=usr/lib/saf/sac group=sys mode=0555
1274 file path=usr/lib/saf/ttymon group=sys mode=0555
1275 file path=usr/lib/sysevent/modules/datalink_mod.so
1276 file path=usr/lib/sysevent/modules/devfsadm_mod.so
1277 file path=usr/lib/sysevent/modules/sysevent_conf_mod.so
1278 file path=usr/lib/sysevent/modules/sysevent_reg_mod.so
1279 file path=usr/lib/sysevent/syseventconfd mode=0555
1280 file path=usr/lib/sysevent/syseventd mode=0555
1281 file path=usr/lib/utmp_update mode=4555
1282 file path=usr/lib/utmpd mode=0555
1283 file path=usr/lib/vtdaemon mode=0555
1284 file path=usr/lib/vtinfo mode=0555
1285 file path=usr/lib/vtxlock mode=0555
1286 file path=usr/sadm/bin/puttext mode=0555
1287 file path=usr/sadm/install/miniroot.db group=sys mode=0444
1288 file path=usr/sadm/install/scripts/i.ipsecalgs group=sys mode=0555
1289 file path=usr/sadm/install/scripts/i.kcfcnf group=sys mode=0555
1290 file path=usr/sadm/install/scripts/i.kmfconf group=sys mode=0555
1291 file path=usr/sadm/install/scripts/i.manifest group=sys mode=0555
1292 file path=usr/sadm/install/scripts/i.pkcs11conf group=sys mode=0555
1293 file path=usr/sadm/install/scripts/i.rbac group=sys mode=0555
1294 file path=usr/sadm/install/scripts/r.ipsecalgs group=sys mode=0555
1295 file path=usr/sadm/install/scripts/r.kcfcnf group=sys mode=0555
1296 file path=usr/sadm/install/scripts/r.kmfconf group=sys mode=0555
1297 file path=usr/sadm/install/scripts/r.manifest group=sys mode=0555
1298 file path=usr/sadm/install/scripts/r.pkcs11conf group=sys mode=0555
1299 file path=usr/sadm/install/scripts/r.rbac group=sys mode=0555
1300 file path=usr/sadm/updates mode=0444
1301 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/add_drv group=sys mode=0555
1302 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/modinfo group=sys mode=0555
1303 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/modload group=sys mode=0555
1304 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/modunload group=sys mode=0555
1305 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/pbind group=sys mode=0555
1306 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/prtconf group=sys mode=2555
1307 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/psrset group=sys mode=0555
1308 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/rem_drv group=sys mode=0555
1309 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/swap group=sys mode=2555
1310 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/sysdef group=sys mode=2555
1311 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/update_drv group=sys mode=0555
1312 $(i386_ONLY)file path=usr/sbin/$(ARCH32)/whodo mode=4555
1313 file path=usr/sbin/$(ARCH64)/add_drv group=sys mode=0555
1314 file path=usr/sbin/$(ARCH64)/modinfo group=sys mode=0555
1315 file path=usr/sbin/$(ARCH64)/modload group=sys mode=0555

```

```

1316 file path=usr/sbin/$(ARCH64)/modunload group=sys mode=0555
1317 file path=usr/sbin/$(ARCH64)/pbind group=sys mode=0555
1318 file path=usr/sbin/$(ARCH64)/prtconf group=sys mode=2555
1319 file path=usr/sbin/$(ARCH64)/psrset group=sys mode=0555
1320 file path=usr/sbin/$(ARCH64)/rem_drv group=sys mode=0555
1321 file path=usr/sbin/$(ARCH64)/swap group=sys mode=2555
1322 file path=usr/sbin/$(ARCH64)/sysdef group=sys mode=2555
1323 file path=usr/sbin/$(ARCH64)/update_drv group=sys mode=0555
1324 file path=usr/sbin/$(ARCH64)/whodo mode=4555
1325 file path=usr/sbin/6to4relay mode=0555
1326 file path=usr/sbin/acctadm mode=0555
1327 file path=usr/sbin/allocate mode=4555
1328 file path=usr/sbin/arp mode=0555
1329 file path=usr/sbin/audit mode=0555
1330 file path=usr/sbin/auditconfig mode=0555
1331 file path=usr/sbin/auditd mode=0555
1332 file path=usr/sbin/auditrecord mode=0555
1333 file path=usr/sbin/auditreduce mode=0555
1334 file path=usr/sbin/auditstat mode=0555
1335 file path=usr/sbin/cfgadm mode=0555
1336 file path=usr/sbin/chroot mode=0555
1337 file path=usr/sbin/clear_locks mode=0555
1338 file path=usr/sbin/clinfo mode=0555
1339 file path=usr/sbin/clri mode=0555
1340 file path=usr/sbin/consadm group=sys mode=0555
1341 file path=usr/sbin/cron group=sys mode=0555
1342 file path=usr/sbin/devfsadm group=sys mode=0755
1343 file path=usr/sbin/devinfo mode=0555
1344 file path=usr/sbin/df mode=0555
1345 file path=usr/sbin/dfmounts mode=0555
1346 file path=usr/sbin/dispadm mode=0555
1347 file path=usr/sbin/dminfo mode=0555
1348 file path=usr/sbin/dumpadm mode=0555
1349 file path=usr/sbin/EEPROM group=sys mode=2555
1350 file path=usr/sbin/ff mode=0555
1351 file path=usr/sbin/fmthard group=sys mode=0555
1352 file path=usr/sbin/format mode=0555
1353 file path=usr/sbin/fsck mode=0555
1354 file path=usr/sbin/fstyp group=sys mode=0555
1355 file path=usr/sbin/fuser mode=0555
1356 file path=usr/sbin/getdevpolicy group=sys mode=0555
1357 file path=usr/sbin/getmajor group=sys mode=0755
1358 file path=usr/sbin/groupadd group=sys mode=0555
1359 file path=usr/sbin/groupdel group=sys mode=0555
1360 file path=usr/sbin/groupmod group=sys mode=0555
1361 file path=usr/sbin/grpck mode=0555
1362 file path=usr/sbin/halt mode=0755
1363 file path=usr/sbin/hotplug mode=0555
1364 file path=usr/sbin/idmap mode=0555
1365 file path=usr/sbin/if_mpadm mode=0555
1366 file path=usr/sbin/ikeadm mode=0555
1367 file path=usr/sbin/ikecert mode=0555
1368 file path=usr/sbin/inetadm mode=0555
1369 file path=usr/sbin/inetconv mode=0555
1370 file path=usr/sbin/install mode=0555
1371 file path=usr/sbin/installboot group=sys mode=0555
1372 file path=usr/sbin/ipaddrsel mode=0555
1373 file path=usr/sbin/ipsecalg mode=0555
1374 file path=usr/sbin/ipsecconf mode=0555
1375 file path=usr/sbin/ipseckey mode=0555
1376 file path=usr/sbin/keyserv group=sys mode=0555
1377 file path=usr/sbin/killall mode=0555
1378 file path=usr/sbin/ksslcfg mode=0555
1379 file path=usr/sbin/link mode=0555
1380 file path=usr/sbin/locator mode=0555
1381 file path=usr/sbin/lofiadm mode=0555

```

```

1382 file path=usr/sbin/logadm mode=0555
1383 file path=usr/sbin/makedbm mode=0555
1384 file path=usr/sbin/mkdevalloc mode=0555
1385 file path=usr/sbin/mkfile mode=0555
1386 file path=usr/sbin/mknod mode=0555
1387 file path=usr/sbin/mountall group=sys mode=0555
1388 file path=usr/sbin/msgid mode=0555
1389 file path=usr/sbin/mvdir mode=0555
1390 file path=usr/sbin/ndd mode=0555
1391 file path=usr/sbin/nlsadmin group=adm mode=0755
1392 file path=usr/sbin/nscd mode=0555
1393 file path=usr/sbin/nwamadm mode=0555
1394 file path=usr/sbin/nwamcfg mode=0555
1395 file path=usr/sbin/pamconv group=sys mode=0555
1396 file path=usr/sbin/pmadm group=sys mode=0555
1397 file path=usr/sbin/praudt mode=0555
1398 $(i386_ONLY)file path=usr/sbin/prtdiag group=sys mode=2755
1399 file path=usr/sbin/prtvoc group=sys mode=0555
1400 file path=usr/sbin/psradm group=sys mode=0555
1401 file path=usr/sbin/psrinfo group=sys mode=0555
1402 file path=usr/sbin/pwck mode=0555
1403 file path=usr/sbin/pwconv group=sys mode=0555
1404 file path=usr/sbin/raidctl mode=0555
1405 file path=usr/sbin/ramdiskadm mode=0555
1406 file path=usr/sbin/rctladm mode=0555
1407 file path=usr/sbin/root_archive group=sys mode=0555
1408 file path=usr/sbin/rpcbind mode=0555
1409 $(i386_ONLY)file path=usr/sbin/rtc mode=0555
1410 file path=usr/sbin/sacadm group=sys mode=4755
1411 file path=usr/sbin/setmnt mode=0555
1412 file path=usr/sbin/shareall mode=0555
1413 file path=usr/sbin/sharectl mode=0555
1414 file path=usr/sbin/sharemgr mode=0555
1415 file path=usr/sbin/shutdown group=sys mode=0755
1416 file path=usr/sbin/smbios mode=0555
1417 file path=usr/sbin/stmsboot mode=0555
1418 file path=usr/sbin/strace group=sys mode=0555
1419 file path=usr/sbin/strclean group=sys mode=0555
1420 file path=usr/sbin/strerr group=sys mode=0555
1421 file path=usr/sbin/ttydefs group=sys mode=0755
1422 file path=usr/sbin/svcadm mode=0555
1423 file path=usr/sbin/svccfg mode=0555
1424 file path=usr/sbin/syncinit mode=0555
1425 file path=usr/sbin/syncloop mode=0555
1426 file path=usr/sbin/syncstat mode=0555
1427 file path=usr/sbin/syseventadm group=sys mode=0555
1428 file path=usr/sbin/syslogd group=sys mode=0555
1429 file path=usr/sbin/tar mode=0555
1430 file path=usr/sbin/traceroute mode=4555
1431 file path=usr/sbin/trapstat mode=0555
1432 file path=usr/sbin/ttyadm group=sys mode=0755
1433 $(i386_ONLY)file path=usr/sbin/ucodeadm mode=0555
1434 file path=usr/sbin/umountall group=sys mode=0555
1435 file path=usr/sbin/unlink mode=0555
1436 file path=usr/sbin/unshareall mode=0555
1437 file path=usr/sbin/useradd group=sys mode=0555
1438 file path=usr/sbin/userdel group=sys mode=0555
1439 file path=usr/sbin/usermod group=sys mode=0555
1440 $(sparc_ONLY)file path=usr/sbin/virtinfo mode=0555
1441 file path=usr/sbin/volcopy mode=0555
1442 file path=usr/sbin/wall group=tty mode=2555
1443 file path=usr/sbin/zdump mode=0555
1444 file path=usr/sbin/zic mode=0555
1445 file path=usr/share/doc/ksh/COMPATIBILITY
1446 file path=usr/share/doc/ksh/DESIGN
1447 file path=usr/share/doc/ksh/OBSOLETE

```



```

1448 file path=usr/share/doc/ksh/README
1449 file path=usr/share/doc/ksh/RELEASE
1450 file path=usr/share/doc/ksh/TYPES
1451 file path=usr/share/doc/ksh/images/callouts/1.png
1452 file path=usr/share/doc/ksh/images/callouts/10.png
1453 file path=usr/share/doc/ksh/images/callouts/2.png
1454 file path=usr/share/doc/ksh/images/callouts/3.png
1455 file path=usr/share/doc/ksh/images/callouts/4.png
1456 file path=usr/share/doc/ksh/images/callouts/5.png
1457 file path=usr/share/doc/ksh/images/callouts/6.png
1458 file path=usr/share/doc/ksh/images/callouts/7.png
1459 file path=usr/share/doc/ksh/images/callouts/8.png
1460 file path=usr/share/doc/ksh/images/callouts/9.png
1461 file path=usr/share/doc/ksh/images/tag_bourne.png
1462 file path=usr/share/doc/ksh/images/tag_il8n.png
1463 file path=usr/share/doc/ksh/images/tag_ksh.png
1464 file path=usr/share/doc/ksh/images/tag_ksh88.png
1465 file path=usr/share/doc/ksh/images/tag_ksh93.png
1466 file path=usr/share/doc/ksh/images/tag_ll0n.png
1467 file path=usr/share/doc/ksh/images/tag_perf.png
1468 file path=usr/share/doc/ksh/shell_styleguide.docbook
1469 file path=usr/share/doc/ksh/shell_styleguide.html
1470 file path=usr/share/lib/mailx/mailx.help
1471 file path=usr/share/lib/mailx/mailx.help.~
1472 file path=usr/share/lib/tabset/3101
1473 file path=usr/share/lib/tabset/beehive
1474 file path=usr/share/lib/tabset/hds
1475 file path=usr/share/lib/tabset/hds3
1476 file path=usr/share/lib/tabset/std
1477 file path=usr/share/lib/tabset/stdcrt
1478 file path=usr/share/lib/tabset/teleray
1479 file path=usr/share/lib/tabset/vt100
1480 file path=usr/share/lib/tabset/wyse-adds
1481 file path=usr/share/lib/tabset/xerox1720
1482 file path=usr/share/lib/termcap
1483 file path=usr/share/lib/unittab
1484 file path=usr/share/lib/xml/dtd/adt_record.dtd.1
1485 file path=usr/share/lib/xml/dtd/kmfpolicy.dtd
1486 file path=usr/share/lib/xml/dtd/service_bundle.dtd.1 group=sys
1487 file path=usr/share/lib/xml/style/adt_record.xsl.1
1488 file path=var/adm/aculog mode=0600 owner=uucp preserve=true
1489 file path=var/adm/spellhist mode=0666 preserve=true
1490 file path=var/adm/utmpx preserve=true
1491 file path=var/adm/wtmpx group=adm owner=adm preserve=true
1492 file path=var/log/authlog group=sys mode=0600 preserve=true
1493 file path=var/log/syslog group=sys preserve=true
1494 file path=var/sadm/system/admin/default_java group=sys mode=0444
1495 file path=var/saf/zsmon/log group=sys preserve=true
1496 file path=var/spool/cron/crontabs/adm group=sys mode=0600 preserve=true
1497 file path=var/spool/cron/crontabs/root group=sys mode=0600 preserve=true
1498 hardlink path=etc/crypto/certs/SUNWObjectCA \
1499     target=../../../../etc/certs/SUNWObjectCA
1500 hardlink path=etc/rc2.d/S20syssetup target=../../../../etc/init.d/syssetup
1501 hardlink path=etc/rc2.d/S73cachefs.daemon \
1502     target=../../../../etc/init.d/cachefs.daemon
1503 hardlink path=etc/rc2.d/S89PRESERVE target=../../../../etc/init.d/PRESERVE
1504 $(sparc_ONLY)hardlink path=etc/svc/profile/platform_SUNW,Sun-Fire-V890.xml \
1505     target=./platform_SUNW,Sun-Fire-880.xml
1506 $(sparc_ONLY)hardlink \
1507     path=etc/svc/profile/platform_SUNW,UltraSPARC-IIe-Netract-40.xml \
1508     target=./platform_SUNW,UltraSPARC-IIi-Netract.xml
1509 $(sparc_ONLY)hardlink \
1510     path=etc/svc/profile/platform_SUNW,UltraSPARC-IIe-Netract-60.xml \
1511     target=./platform_SUNW,UltraSPARC-IIi-Netract.xml
1512 hardlink path=sbin/rc5 target=../sbin/rc0
1513 hardlink path=sbin/rc6 target=../sbin/rc0

```

```

1514 hardlink path=usr/bin/$(ARCH32)/encrypt target=decrypt
1515 hardlink path=usr/bin/$(ARCH32)/ksh target=ksh93
1516 hardlink path=usr/bin/$(ARCH32)/mac target=digest
1517 hardlink path=usr/bin/$(ARCH32)/rksh target=ksh93
1518 hardlink path=usr/bin/$(ARCH32)/rksh93 target=ksh93
1519 $(i386_ONLY)hardlink path=usr/bin/$(ARCH32)/w target=uptime
1520 hardlink path=usr/bin/$(ARCH64)/encrypt target=decrypt
1521 hardlink path=usr/bin/$(ARCH64)/ksh target=ksh93
1522 hardlink path=usr/bin/$(ARCH64)/mac target=digest
1523 hardlink path=usr/bin/$(ARCH64)/rksh target=ksh93
1524 hardlink path=usr/bin/$(ARCH64)/rksh93 target=ksh93
1525 hardlink path=usr/bin/$(ARCH64)/w target=uptime
1526 hardlink path=usr/bin/bg target=../../../../usr/bin/alias
1527 hardlink path=usr/bin/cd target=../../../../usr/bin/alias
1528 hardlink path=usr/bin/cksum target=../../../../usr/bin/alias
1529 hardlink path=usr/bin/cmp target=../../../../usr/bin/alias
1530 hardlink path=usr/bin/comm target=../../../../usr/bin/alias
1531 hardlink path=usr/bin/command target=../../../../usr/bin/alias
1532 hardlink path=usr/bin/cut target=../../../../usr/bin/alias
1533 hardlink path=usr/bin/decrypt target=../../../../usr/lib/isaexec
1534 hardlink path=usr/bin/digest target=../../../../usr/lib/isaexec
1535 hardlink path=usr/bin/dispgid target=../../../../usr/bin/ckgid
1536 hardlink path=usr/bin/dispid target=../../../../usr/bin/ckuid
1537 hardlink path=usr/bin/edit target=../has/bin/edit
1538 hardlink path=usr/bin/encrypt target=../../../../usr/lib/isaexec
1539 hardlink path=usr/bin/fc target=../../../../usr/bin/alias
1540 hardlink path=usr/bin/fg target=../../../../usr/bin/alias
1541 hardlink path=usr/bin/getopts target=../../../../usr/bin/alias
1542 hardlink path=usr/bin/hash target=../../../../usr/bin/alias
1543 hardlink path=usr/bin/i386 target=../../../../usr/bin/i286
1544 hardlink path=usr/bin/i486 target=../../../../usr/bin/i286
1545 hardlink path=usr/bin/i860 target=../../../../usr/bin/i286
1546 hardlink path=usr/bin/i86pc target=../../../../usr/bin/i286
1547 hardlink path=usr/bin/iAPX286 target=../../../../usr/bin/i286
1548 hardlink path=usr/bin/jobs target=../../../../usr/bin/alias
1549 hardlink path=usr/bin/join target=../../../../usr/bin/alias
1550 hardlink path=usr/bin/kill target=../../../../usr/bin/alias
1551 hardlink path=usr/bin/ksh target=../../../../usr/lib/isaexec
1552 hardlink path=usr/bin/ksh93 target=../../../../usr/lib/isaexec
1553 hardlink path=usr/bin/ln target=../../../../usr/bin/cp
1554 hardlink path=usr/bin/logname target=../../../../usr/bin/alias
1555 hardlink path=usr/bin/m68k target=../../../../usr/bin/i286
1556 hardlink path=usr/bin/mac target=../../../../usr/lib/isaexec
1557 hardlink path=usr/bin/mc68000 target=../../../../usr/bin/i286
1558 hardlink path=usr/bin/mc68010 target=../../../../usr/bin/i286
1559 hardlink path=usr/bin/mc68020 target=../../../../usr/bin/i286
1560 hardlink path=usr/bin/mc68030 target=../../../../usr/bin/i286
1561 hardlink path=usr/bin/mc68040 target=../../../../usr/bin/i286
1562 hardlink path=usr/bin/mv target=../../../../usr/bin/cp
1563 hardlink path=usr/bin/newtask target=../../../../usr/lib/isaexec
1564 hardlink path=usr/bin/nohup target=../../../../usr/lib/isaexec
1565 hardlink path=usr/bin/page target=../../../../usr/bin/more
1566 hardlink path=usr/bin/paste target=../../../../usr/bin/alias
1567 hardlink path=usr/bin/pdpl1 target=../../../../usr/bin/i286
1568 hardlink path=usr/bin/pfbash target=../../../../usr/bin/pfexec
1569 hardlink path=usr/bin/pfcsh target=../../../../usr/bin/pfexec
1570 hardlink path=usr/bin/pfksh target=../../../../usr/bin/pfexec
1571 hardlink path=usr/bin/pfksh93 target=../../../../usr/bin/pfexec
1572 hardlink path=usr/bin/pfrksh target=../../../../usr/bin/pfexec
1573 hardlink path=usr/bin/pfrksh93 target=../../../../usr/bin/pfexec
1574 hardlink path=usr/bin/pfsh target=../../../../usr/bin/pfexec
1575 hardlink path=usr/bin/pftcsh target=../../../../usr/bin/pfexec
1576 hardlink path=usr/bin/pfzsh target=../../../../usr/bin/pfexec
1577 hardlink path=usr/bin/pkill target=../../../../usr/bin/pgrep
1578 hardlink path=usr/bin/prctl target=../../../../usr/lib/isaexec
1579 hardlink path=usr/bin/print target=../../../../usr/bin/alias

```

```

1580 hardlink path=usr/bin/prstat target=../usr/lib/isaexec
1581 hardlink path=usr/bin/ps target=../usr/lib/isaexec
1582 hardlink path=usr/bin/read target=../usr/bin/alias
1583 hardlink path=usr/bin/red target=../usr/bin/ed
1584 hardlink path=usr/bin/rev target=../usr/bin/alias
1585 hardlink path=usr/bin/rksh target=../usr/lib/isaexec
1586 hardlink path=usr/bin/rksh93 target=../usr/lib/isaexec
1587 hardlink path=usr/bin/savecore target=../usr/lib/isaexec
1588 hardlink path=usr/bin/setuname target=../usr/lib/isaexec
1589 hardlink path=usr/bin/sleep target=../usr/bin/alias
1590 hardlink path=usr/bin/sparc target=../usr/bin/i286
1591 hardlink path=usr/bin/sum target=../usr/bin/alias
1592 hardlink path=usr/bin/sun target=../usr/bin/i286
1593 hardlink path=usr/bin/sun2 target=../usr/bin/i286
1594 hardlink path=usr/bin/sun3 target=../usr/bin/i286
1595 hardlink path=usr/bin/sun3x target=../usr/bin/i286
1596 hardlink path=usr/bin/sun4 target=../usr/bin/i286
1597 hardlink path=usr/bin/sun4c target=../usr/bin/i286
1598 hardlink path=usr/bin/sun4d target=../usr/bin/i286
1599 hardlink path=usr/bin/sun4e target=../usr/bin/i286
1600 hardlink path=usr/bin/sun4m target=../usr/bin/i286
1601 hardlink path=usr/bin/tee target=../usr/bin/alias
1602 hardlink path=usr/bin/test target=../usr/bin/alias
1603 hardlink path=usr/bin/touch target=../usr/bin/settime
1604 hardlink path=usr/bin/type target=../usr/bin/alias
1605 hardlink path=usr/bin/u370 target=../usr/bin/i286
1606 hardlink path=usr/bin/u3b target=../usr/bin/i286
1607 hardlink path=usr/bin/u3b15 target=../usr/bin/i286
1608 hardlink path=usr/bin/u3b2 target=../usr/bin/i286
1609 hardlink path=usr/bin/u3b5 target=../usr/bin/i286
1610 hardlink path=usr/bin/ulimit target=../usr/bin/alias
1611 hardlink path=usr/bin/umask target=../usr/bin/alias
1612 hardlink path=usr/bin/unalias target=../usr/bin/alias
1613 hardlink path=usr/bin/uniq target=../usr/bin/alias
1614 hardlink path=usr/bin/uptime target=../usr/lib/isaexec
1615 hardlink path=usr/bin/vax target=../usr/bin/i286
1616 hardlink path=usr/bin/vedit target=../usr/bin/edit
1617 hardlink path=usr/bin/w target=../usr/lib/isaexec
1618 hardlink path=usr/bin/wait target=../usr/bin/alias
1619 hardlink path=usr/bin/wc target=../usr/bin/alias
1620 hardlink path=usr/has/bin/ex target=edit
1621 hardlink path=usr/has/bin/pfsh target=../usr/bin/pfexec
1622 hardlink path=usr/has/bin/vedit target=edit
1623 hardlink path=usr/has/bin/vi target=edit
1624 hardlink path=usr/has/bin/view target=edit
1625 hardlink path=usr/lib/fs/hsfs/fstyp target=../usr/sbin/fstyp
1626 hardlink path=usr/lib/fs/ufs/dcopy target=../usr/lib/fs/ufs/clri
1627 hardlink path=usr/lib/fs/ufs/fstyp target=../usr/sbin/fstyp
1628 hardlink path=usr/lib/fs/ufs/quotao \
1629     target=../usr/lib/fs/ufs/quotaooff
1630 hardlink path=usr/lib/inet/in.iked target=../usr/lib/isaexec
1631 hardlink path=usr/sadm/bin/dispgid target=../usr/bin/ckgid
1632 hardlink path=usr/sadm/bin/dispuid target=../usr/bin/ckuid
1633 hardlink path=usr/sadm/bin/errange target=../usr/bin/ckrange
1634 hardlink path=usr/sadm/bin/errdate target=../usr/bin/ckdate
1635 hardlink path=usr/sadm/bin/errgid target=../usr/bin/ckgid
1636 hardlink path=usr/sadm/bin/errint target=../usr/bin/ckint
1637 hardlink path=usr/sadm/bin/erritem target=../usr/bin/ckitem
1638 hardlink path=usr/sadm/bin/errpath target=../usr/bin/ckpath
1639 hardlink path=usr/sadm/bin/errstr target=../usr/bin/ckstr
1640 hardlink path=usr/sadm/bin/errtime target=../usr/bin/cktime
1641 hardlink path=usr/sadm/bin/erruid target=../usr/bin/ckuid
1642 hardlink path=usr/sadm/bin/erryorn target=../usr/bin/ckyorn
1643 hardlink path=usr/sadm/bin/helpdate target=../usr/bin/ckdate
1644 hardlink path=usr/sadm/bin/helpgid target=../usr/bin/ckgid
1645 hardlink path=usr/sadm/bin/helpint target=../usr/bin/ckint

```

```

1646 hardlink path=usr/sadm/bin/helpitem target=../usr/bin/ckitem
1647 hardlink path=usr/sadm/bin/helppath target=../usr/bin/ckpath
1648 hardlink path=usr/sadm/bin/helpprange target=../usr/bin/ckrange
1649 hardlink path=usr/sadm/bin/helppstr target=../usr/bin/ckstr
1650 hardlink path=usr/sadm/bin/helptime target=../usr/bin/cktime
1651 hardlink path=usr/sadm/bin/helpuid target=../usr/bin/ckuid
1652 hardlink path=usr/sadm/bin/helpyorn target=../usr/bin/ckyorn
1653 hardlink path=usr/sadm/bin/valdate target=../usr/bin/ckdate
1654 hardlink path=usr/sadm/bin/validid target=../usr/bin/ckgid
1655 hardlink path=usr/sadm/bin/valint target=../usr/bin/ckint
1656 hardlink path=usr/sadm/bin/valpath target=../usr/bin/ckpath
1657 hardlink path=usr/sadm/bin/valrange target=../usr/bin/ckrange
1658 hardlink path=usr/sadm/bin/valstr target=../usr/bin/ckstr
1659 hardlink path=usr/sadm/bin/valtime target=../usr/bin/cktime
1660 hardlink path=usr/sadm/bin/valuid target=../usr/bin/ckuid
1661 hardlink path=usr/sadm/bin/valyorn target=../usr/bin/ckyorn
1662 hardlink path=usr/sbin/add_drv target=../usr/lib/isaexec
1663 hardlink path=usr/sbin/audlinks target=../devfsadm
1664 hardlink path=usr/sbin/consadm target=../usr/sbin/consadm
1665 hardlink path=usr/sbin/deallocate target=../usr/sbin/allocate
1666 hardlink path=usr/sbin/devlinks target=../devfsadm
1667 hardlink path=usr/sbin/dfshares target=../usr/sbin/dfmounts
1668 hardlink path=usr/sbin/disks target=../devfsadm
1669 hardlink path=usr/sbin/drvconfig target=../devfsadm
1670 hardlink path=usr/sbin/list_devices target=../usr/sbin/allocate
1671 hardlink path=usr/sbin/mkdevmaps target=../usr/sbin/mkdevalloc
1672 hardlink path=usr/sbin/modinfo target=../usr/lib/isaexec
1673 hardlink path=usr/sbin/modload target=../usr/lib/isaexec
1674 hardlink path=usr/sbin/modunload target=../usr/lib/isaexec
1675 hardlink path=usr/sbin/pbind target=../usr/lib/isaexec
1676 hardlink path=usr/sbin/ports target=../devfsadm
1677 hardlink path=usr/sbin/poweroff target=../halt
1678 hardlink path=usr/sbin/prtconf target=../usr/lib/isaexec
1679 $(sparc_ONLY)hardlink path=usr/sbin/prtdiag target=../usr/lib/platexec
1680 hardlink path=usr/sbin/psrset target=../usr/lib/isaexec
1681 hardlink path=usr/sbin/reboot target=../halt
1682 hardlink path=usr/sbin/rem_drv target=../usr/lib/isaexec
1683 hardlink path=usr/sbin/roleadd target=../usr/sbin/useradd
1684 hardlink path=usr/sbin/roledel target=../usr/sbin/userdel
1685 hardlink path=usr/sbin/rolemod target=../usr/sbin/usermod
1686 hardlink path=usr/sbin/share target=../usr/sbin/sharemgr
1687 hardlink path=usr/sbin/swap target=../usr/lib/isaexec
1688 hardlink path=usr/sbin/sysdef target=../usr/lib/isaexec
1689 hardlink path=usr/sbin/tapes target=../devfsadm
1690 hardlink path=usr/sbin/unshare target=../usr/sbin/sharemgr
1691 hardlink path=usr/sbin/update_drv target=../usr/lib/isaexec
1692 hardlink path=usr/sbin/whodo target=../usr/lib/isaexec
1693 legacy pkg=SUNWcsr \
1694     desc="core software for a specific instruction-set architecture" \
1695     name="Core Solaris, (Root)"
1696 legacy pkg=SUNWcsu \
1697     desc="core software for a specific instruction-set architecture" \
1698     name="Core Solaris, (Usr)"
1699 legacy pkg=SUNWftpr desc="FTP Server Configuration Files" \
1700     name="FTP Server, (Root)"
1701 license cr_Sun license=cr_Sun
1702 license lic_CDDL license=lic_CDDL
1703 license usr/src/cmd/cmd-inet/sbin/ifparse/THIRDPARTYLICENSE \
1704     license=usr/src/cmd/cmd-inet/sbin/ifparse/THIRDPARTYLICENSE
1705 license usr/src/cmd/cmd-inet/usr.lib/in.mpathd/THIRDPARTYLICENSE \
1706     license=usr/src/cmd/cmd-inet/usr.lib/in.mpathd/THIRDPARTYLICENSE
1707 license usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.arp \
1708     license=usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.arp
1709 license usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.route \
1710     license=usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.route
1711 license usr/src/cmd/cmd-inet/usr/sbin/ifconfig/THIRDPARTYLICENSE \

```

```

1712 license usr/src/cmd/cmd/inet/usr/sbin/ifconfig/THIRDPARTYLICENSE
1713 license usr/src/cmd/cmd/inet/usr/sbin/in.ftpd/LICENSE \
1714 license usr/src/cmd/cmd/inet/usr/sbin/in.ftpd/LICENSE
1715 license usr/src/cmd/cmd/inet/usr/sbin/traceroute/THIRDPARTYLICENSE \
1716 license usr/src/cmd/cmd/inet/usr/sbin/traceroute/THIRDPARTYLICENSE
1717 license usr/src/cmd/cron/THIRDPARTYLICENSE \
1718 license usr/src/cmd/cron/THIRDPARTYLICENSE
1719 license usr/src/cmd/csh/THIRDPARTYLICENSE \
1720 license usr/src/cmd/csh/THIRDPARTYLICENSE
1721 license usr/src/cmd/eeprom/THIRDPARTYLICENSE \
1722 license usr/src/cmd/eeprom/THIRDPARTYLICENSE
1723 license usr/src/cmd/fs.d/ufs/THIRDPARTYLICENSE \
1724 license usr/src/cmd/fs.d/ufs/THIRDPARTYLICENSE
1725 license usr/src/cmd/mt/THIRDPARTYLICENSE \
1726 license usr/src/cmd/mt/THIRDPARTYLICENSE
1727 license usr/src/cmd/script/THIRDPARTYLICENSE \
1728 license usr/src/cmd/script/THIRDPARTYLICENSE
1729 license usr/src/cmd/sed/THIRDPARTYLICENSE \
1730 license usr/src/cmd/sed/THIRDPARTYLICENSE
1731 license usr/src/cmd/stat/vmstat/THIRDPARTYLICENSE \
1732 license usr/src/cmd/stat/vmstat/THIRDPARTYLICENSE
1733 license usr/src/cmd/tail/THIRDPARTYLICENSE \
1734 license usr/src/cmd/tail/THIRDPARTYLICENSE
1735 license usr/src/cmd/tip/THIRDPARTYLICENSE \
1736 license usr/src/cmd/tip/THIRDPARTYLICENSE
1737 license usr/src/cmd/tr/THIRDPARTYLICENSE \
1738 license usr/src/cmd/tr/THIRDPARTYLICENSE
1739 license usr/src/cmd/vi/THIRDPARTYLICENSE \
1740 license usr/src/cmd/vi/THIRDPARTYLICENSE
1741 license usr/src/cmd/which/THIRDPARTYLICENSE \
1742 license usr/src/cmd/which/THIRDPARTYLICENSE
1743 license usr/src/cmd/xstr/THIRDPARTYLICENSE \
1744 license usr/src/cmd/xstr/THIRDPARTYLICENSE
1745 license usr/src/common/bzip2/LICENSE license=usr/src/common/bzip2/LICENSE
1746 link path=bin target=./usr/bin
1747 link path=etc/TIMEZONE target=./default/init
1748 link path=etc/autopush target=./sbin/autopush
1749 link path=etc/cfgadm target=./usr/sbin/cfgadm
1750 link path=etc/clri target=./usr/sbin/clri
1751 link path=etc/cron target=./usr/sbin/cron
1752 link path=etc/dcopy target=./usr/sbin/dcopy
1753 link path=etc/ff target=./usr/sbin/ff
1754 link path=etc/fmthard target=./usr/sbin/fmthard
1755 link path=etc/format target=./usr/sbin/format
1756 link path=etc/fsck target=./usr/sbin/fsck
1757 link path=etc/fsdb target=./usr/sbin/fsdb
1758 link path=etc/fstyp target=./usr/sbin/fstyp
1759 link path=etc/getty target=./usr/lib/saf/ttymon
1760 link path=etc/grpck target=./usr/sbin/grpck
1761 link path=etc/halt target=./usr/sbin/halt
1762 link path=etc/hosts target=./inet/hosts
1763 link path=etc/inet/ipnodes target=./hosts
1764 link path=etc/inetd.conf target=./inet/inetd.conf
1765 link path=etc/init target=./sbin/init
1766 link path=etc/install target=./usr/sbin/install
1767 link path=etc/killall target=./usr/sbin/killall
1768 link path=etc/labelit target=./usr/sbin/labelit
1769 link path=etc/lib/ld.so.1 target=./../lib/ld.so.1
1770 link path=etc/lib/libdl.so.1 target=./../lib/libdl.so.1
1771 link path=etc/lib/nss_files.so.1 target=./../lib/nss_files.so.1
1772 link path=etc/log target=./var/adm/log
1773 link path=etc/mkfs target=./usr/sbin/mkfs
1774 link path=etc/mknod target=./usr/sbin/mknod
1775 link path=etc/mount target=./sbin/mount
1776 link path=etc/mountall target=./sbin/mountall
1777 link path=etc/ncheck target=./usr/sbin/ncheck

```

```

1778 link path=etc/netmasks target=./inet/netmasks
1779 link path=etc/networks target=./inet/networks
1780 link path=etc/protocols target=./inet/protocols
1781 link path=etc/prtconf target=./usr/sbin/prtconf
1782 link path=etc/prtvtoc target=./usr/sbin/prtvtoc
1783 link path=etc/rc0 target=./sbin/rc0
1784 link path=etc/rc1 target=./sbin/rc1
1785 link path=etc/rc2 target=./sbin/rc2
1786 link path=etc/rc3 target=./sbin/rc3
1787 link path=etc/rc5 target=./sbin/rc5
1788 link path=etc/rc6 target=./sbin/rc6
1789 link path=etc/rcS target=./sbin/rcS
1790 link path=etc/reboot target=./usr/sbin/halt
1791 link path=etc/security/audit/localhost/files target=./.././../var/audit
1792 link path=etc/services target=./inet/services
1793 link path=etc/setmnt target=./usr/sbin/setmnt
1794 link path=etc/shutdown target=./usr/sbin/shutdown
1795 link path=etc/sulogin target=./sbin/sulogin
1796 link path=etc/swap target=./usr/sbin/swap
1797 link path=etc/swapadd target=./sbin/swapadd
1798 link path=etc/sysdef target=./usr/sbin/sysdef
1799 link path=etc/tar target=./usr/sbin/tar
1800 link path=etc/telinit target=./sbin/init
1801 link path=etc/uadmin target=./sbin/uadmin
1802 link path=etc/umount target=./sbin/umount
1803 link path=etc/umountall target=./sbin/umountall
1804 link path=etc/utmpx target=./var/adm/utmpx
1805 link path=etc/volcopy target=./usr/sbin/volcopy
1806 link path=etc/wall target=./usr/sbin/wall
1807 link path=etc/whodo target=./usr/sbin/whodo
1808 link path=etc/wtmpx target=./var/adm/wtmpx
1809 link path=sbin/in.mpathd target=./lib/inet/in.mpathd
1810 link path=sbin/jsh target=./usr/bin/ksh93
1811 link path=sbin/pfsh target=./usr/bin/pfexec
1812 link path=sbin/sh target=./usr/bin/$(ARCH32)/ksh93
1813 link path=sbin/su target=./usr/bin/su
1814 link path=usr/adm target=./var/adm
1815 link path=usr/bin/cachefs/cachefspack target=./lib/fs/cachefs/cachefspack
1816 link path=usr/bin/cachefsstat target=./lib/fs/cachefs/cachefsstat
1817 link path=usr/bin/df target=./sbin/df
1818 link path=usr/bin/jsh target=ksh93
1819 link path=usr/bin/pwconv target=./sbin/pwconv
1820 link path=usr/bin/rmail target=./mail
1821 link path=usr/bin/sh target=$(ARCH32)/ksh93
1822 link path=usr/bin/strclean target=./sbin/strclean
1823 link path=usr/bin/strerr target=./sbin/strerr
1824 link path=usr/bin/sync target=./../sbin/sync
1825 link path=usr/bin/tar target=./sbin/tar
1826 link path=usr/bin/uname target=./../sbin/uname
1827 link path=usr/ccs/bin/m4 target=./../bin/m4
1828 link path=usr/has/bin/jsh target=sh
1829 link path=usr/has/lib/rsh target=./bin/sh
1830 link path=usr/lib/$(ARCH64)/ld.so.1 target=./.././../lib/$(ARCH64)/ld.so.1
1831 link path=usr/lib/cron target=./../etc/cron.d
1832 link path=usr/lib/devfsadm/devfsadm target=./../sbin/devfsadm
1833 link path=usr/lib/embedded_su target=./bin/su
1834 link path=usr/lib/fs/dev/mount target=./.././../etc/fs/dev/mount
1835 link path=usr/lib/fs/hsfs/mount target=./.././../etc/fs/hsfs/mount
1836 link path=usr/lib/fs/ufs/mount target=./.././../etc/fs/ufs/mount
1837 link path=usr/lib/inet/in.mpathd target=./../lib/inet/in.mpathd
1838 link path=usr/lib/ld.so.1 target=./../lib/ld.so.1
1839 link path=usr/lib/locale/POSIX target=./C
1840 link path=usr/lib/rsh target=./bin/ksh93
1841 link path=usr/lib/secure/32 target=./
1842 link path=usr/lib/secure/64 target=$(ARCH64)
1843 link path=usr/lib/wusbd target=./../sbin/wusbadm

```

```

1844 link path=usr/mail target=../var/mail
1845 link path=usr/net/nls/listen target=../lib/saf/listen
1846 link path=usr/net/nls/nlps_server target=../lib/saf/nlps_server
1847 link path=usr/news target=../var/news
1848 link path=usr/preserve target=../var/preserve
1849 link path=usr/pub target=../share/lib/pub
1850 link path=usr/sbin/autopush target=../sbin/autopush
1851 link path=usr/sbin/bootadm target=../sbin/bootadm
1852 link path=usr/sbin/cacheofslog target=../lib/fs/cacheofs/cacheofslog
1853 link path=usr/sbin/cacheofssize target=../lib/fs/cacheofs/cacheofssize
1854 link path=usr/sbin/cfsadmin target=../lib/fs/cacheofs/cfsadmin
1855 link path=usr/sbin/cryptoadm target=../sbin/cryptoadm
1856 link path=usr/sbin/dcopy target=../clri
1857 link path=usr/sbin/devnm target=../df
1858 link path=usr/sbin/dladm target=../sbin/dladm
1859 link path=usr/sbin/dlstat target=../sbin/dlstat
1860 link path=usr/sbin/edquota target=../lib/fs/ufs/edquota
1861 link path=usr/sbin/fdisk target=../sbin/fdisk
1862 link path=usr/sbin/fiocompress target=../sbin/fiocompress
1863 link path=usr/sbin/flowadm target=../sbin/flowadm
1864 link path=usr/sbin/flowstat target=../sbin/flowstat
1865 link path=usr/sbin/fsdb target=../clri
1866 link path=usr/sbin/fsirand target=../lib/fs/ufs/fsirand
1867 link path=usr/sbin/fssnap target=../clri
1868 link path=usr/sbin/hostconfig target=../sbin/hostconfig
1869 link path=usr/sbin/ifconfig target=../sbin/ifconfig
1870 link path=usr/sbin/inetd target=../lib/inet/inetd
1871 link path=usr/sbin/init target=../sbin/init
1872 $(i386_ONLY)link path=usr/sbin/installgrub target=../sbin/installgrub
1873 link path=usr/sbin/ipadm target=../sbin/ipadm
1874 link path=usr/sbin/impstat target=../sbin/impstat
1875 link path=usr/sbin/labelit target=../clri
1876 link path=usr/sbin/lockfs target=../lib/fs/ufs/lockfs
1877 link path=usr/sbin/mkfs target=../clri
1878 link path=usr/sbin/mount target=../sbin/mount
1879 link path=usr/sbin/ncheck target=../ff
1880 link path=usr/sbin/newfs target=../lib/fs/ufs/newfs
1881 link path=usr/sbin/quot target=../lib/fs/ufs/quot
1882 link path=usr/sbin/quota target=../lib/fs/ufs/quota
1883 link path=usr/sbin/quotacheck target=../lib/fs/ufs/quotacheck
1884 link path=usr/sbin/quotaoff target=../lib/fs/ufs/quotaoff
1885 link path=usr/sbin/quotaoon target=../lib/fs/ufs/quotaoon
1886 link path=usr/sbin/repquota target=../lib/fs/ufs/repquota
1887 link path=usr/sbin/route target=../sbin/route
1888 link path=usr/sbin/routeadm target=../sbin/routeadm
1889 link path=usr/sbin/sync target=../sbin/sync
1890 link path=usr/sbin/tunefs target=../lib/fs/ufs/tunefs
1891 link path=usr/sbin/tzreload target=../sbin/tzreload
1892 link path=usr/sbin/uadmin target=../sbin/uadmin
1893 link path=usr/sbin/ufsdump target=../lib/fs/ufs/ufsdump
1894 link path=usr/sbin/ufsrestore target=../lib/fs/ufs/ufsrestore
1895 link path=usr/sbin/umount target=../sbin/umount
1896 link path=usr/sbin/wusbadm target=../sbin/wusbadm
1897 link path=usr/spool target=../var/spool
1898 link path=usr/src target=../share/src
1899 link path=usr/tmp target=../var/tmp
1900 link path=var/ld/32 target=
1901 link path=var/ld/64 target=$(ARCH64)
1902 #
1903 # The bootadm binary needs the etc/release file.
1904 #
1905 depend fmri=release/name type=require
1906 #
1907 # intrd and others use the illumos-defaulted perl interpreter
1908 #
1909 depend fmri=runtime/perl-510 type=require

```

```

1910 #
1911 # The loadkeys binary needs the keytables.
1912 #
1913 depend fmri=system/data/keyboard/keytables type=require
1914 #
1915 # Depend on terminfo data.
1916 #
1917 depend fmri=system/data/terminfo type=require
1918 #
1919 # Depend on zoneinfo data.
1920 #
1921 depend fmri=system/data/zoneinfo type=require

```