

```

*****
8651 Thu Dec 28 10:33:32 2017
new/usr/src/Makefile.lint
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
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27 #
28 #
29 # include global definitions
30 include Makefile.master
31 #
32 #
33 # As pieces are made lint-clean, add them here so the nightly build
34 # can be used to keep them that way.
35 #
36 COMMON_SUBDIRS = \
37     cmd/acctadm \
38     cmd/asa \
39     cmd/amt \
40     cmd/audio/audiocctl \
41     cmd/audio/audiotest \
42     cmd/audit \
43     cmd/auditconfig \
44     cmd/auditd \
45     cmd/auditreduce \
46     cmd/auditstat \
47     cmd/auths \
48     cmd/autopush \
49     cmd/availdevs \
50     cmd/avs \
51     cmd/awk \
52     cmd/banner \
53     cmd/bart \
54     cmd/basename \
55     cmd/bdiff \

```

```

56     cmd/busstat \
57     cmd/boot \
58     cmd/cal \
59     cmd/captoinfo \
60     cmd/cat \
61     cmd/cdrw \
62     cmd/cfgadm \
63     cmd/checkeq \
64     cmd/checknr \
65     cmd/chgrp \
66     cmd/chmod \
67     cmd/chown \
68     cmd/chroot \
69     cmd/clinfo \
70     cmd/cmd-crypto \
71     cmd/cmd-inet/lib \
72     cmd/cmd-inet/lib/netcfgd \
73     cmd/cmd-inet/lib/nwamd \
74     cmd/cmd-inet/sbin \
75     cmd/cmd-inet/usr.bin \
76     cmd/cmd-inet/usr.lib/bridged \
77     cmd/cmd-inet/usr.lib/ilbd \
78     cmd/cmd-inet/usr.lib/in.mpathd \
79     cmd/cmd-inet/usr.lib/in.ndpd \
80     cmd/cmd-inet/usr.lib/inetd \
81     cmd/cmd-inet/usr.lib/pppoe \
82     cmd/cmd-inet/usr.lib/slpd \
83     cmd/cmd-inet/usr.lib/vrrpd \
84     cmd/cmd-inet/usr.lib/wpad \
85     cmd/cmd-inet/usr.lib/wanboot \
86     cmd/cmd-inet/usr.sadm \
87     cmd/cmd-inet/usr.sbin \
88     cmd/cmd-inet/usr.sbin/ilbadm \
89     cmd/cmd-inet/usr.sbin/nwamadm \
90     cmd/cmd-inet/usr.sbin/nwamcfg \
91     cmd/col \
92     cmd/compress \
93     cmd/consadm \
94     cmd/coreadm \
95     cmd/cpc \
96     cmd/cpio \
97     cmd/crypt \
98     cmd/csplit \
99     cmd/ctrun \
100    cmd/ctstat \
101    cmd/ctwatch \
102    cmd/date \
103    cmd/dd \
104    cmd/deroff \
105    cmd/devctl \
106    cmd/devfsadm \
107    cmd/devinfo \
108    cmd/devmgmt \
109    cmd/devprop \
110    cmd/dfs.cmds \
111    cmd/diff3 \
112    cmd/dis \
113    cmd/dirname \
114    cmd/diskscan \
115    cmd/dispadm \
116    cmd/dladm \
117    cmd/dlmgmtd \
118    cmd/dtrace \
119    cmd/du \
120    cmd/dumpadm \
121    cmd/dumpcs \

```

new/usr/src/Makefile.lint

```

122 cmd/echo \
123 cmd/eject \
124 cmd/emul64ioctl \
125 cmd/env \
126 cmd/expand \
127 cmd/fcinfo \
128 cmd/fdetach \
129 cmd/fdformat \
130 cmd/fdisk \
131 cmd/fgrep \
131 cmd/file \
132 cmd/find \
133 cmd/fmthard \
134 cmd/fmtmsg \
135 cmd/fold \
136 cmd/fm \
137 cmd/format \
138 cmd/fs.d/fd \
139 cmd/fs.d/lofs/mount \
140 cmd/fs.d/mntfs \
141 cmd/fs.d/pcfs/mount \
142 cmd/fs.d/proc \
143 cmd/fs.d/tmpfs \
144 cmd/fs.d/udfs/mount \
145 cmd/fs.d/ufs/mount \
146 cmd/fs.d/ufs/fsirand \
147 cmd/fs.d/zfs/fstyp \
148 cmd/fwflash \
149 cmd/fuser \
150 cmd/gcore \
151 cmd/genmsg \
152 cmd/getconf \
153 cmd/getdevpolicy \
154 cmd/getfacl \
155 cmd/getopt \
156 cmd/gettext \
157 cmd/grep \
159 cmd/grep_xpg4 \
158 cmd/groups \
159 cmd/halt \
160 cmd/head \
161 cmd/hostid \
162 cmd/hostname \
163 cmd/hotplug \
164 cmd/hotplugd \
165 cmd/idmap \
166 cmd/init \
167 cmd/intrstat \
168 cmd/ipcrm \
169 cmd/ipcs \
170 cmd/isaexec \
171 cmd/isalist \
172 cmd/iscsiadm \
173 cmd/iscsid \
174 cmd/iscsitsvc \
175 cmd/isns \
176 cmd/itadm \
177 cmd/kbd \
178 cmd/killall \
179 cmd/ldap \
180 cmd/last \
181 cmd/lastcomm \
182 cmd/ldapcachemgr \
183 cmd/line \
184 cmd/link \
185 cmd/locator \

```

3

new/usr/src/Makefile.lint

```

186 cmd/localedef \
187 cmd/lockstat \
188 cmd/lofiadm \
189 cmd/logadm \
190 cmd/logger \
191 cmd/login \
192 cmd/logins \
193 cmd/ls \
194 cmd/luxadm \
195 cmd/mailwrapper \
196 cmd/makekey \
197 cmd/mdb \
198 cmd/mesg \
199 cmd/mkdir \
200 cmd/mkfifo \
201 cmd/mkfile \
202 cmd/mkmsgs \
203 cmd/mknod \
204 cmd/mpathadm \
205 cmd/modload \
206 cmd/msgfmt \
207 cmd/msgid \
208 cmd/mt \
209 cmd/mv \
210 cmd/ndmpadm \
211 cmd/ndmpd \
212 cmd/ndmpstat \
213 cmd/newform \
214 cmd/newgrp \
215 cmd/newtask \
216 cmd/nice \
217 cmd/nl \
218 cmd/nohup \
219 cmd/nscd \
220 cmd/od \
221 cmd/pagesize \
222 cmd/passwd \
223 cmd/pathchk \
224 cmd/pbind \
225 cmd/pcidr \
226 cmd/pcitool \
227 cmd/pfexec \
228 cmd/pgrep \
229 cmd/picl/picld \
230 cmd/picl/prtpicl \
231 cmd/plockstat \
232 cmd/pools \
233 cmd/power \
234 cmd/powertop \
235 cmd/printf \
236 cmd/latencytop \
237 cmd/ppgsz \
238 cmd/praudit \
239 cmd/prctl \
240 cmd/priocntl \
241 cmd/profiles \
242 cmd/prstat \
243 cmd/prtconf \
244 cmd/prtdiag \
245 cmd/prvtoc \
246 cmd/ps \
247 cmd/psradm \
248 cmd/psrinfo \
249 cmd/psrset \
250 cmd/ptools \
251 cmd/pwck \

```

4

new/usr/src/Makefile.lint

```

252 cmd/pwconv \
253 cmd/ramdiskadm \
254 cmd/raidctl \
255 cmd/rcap \
256 cmd/rcm_daemon \
257 cmd/rctladm \
258 cmd/renice \
259 cmd/rm \
260 cmd/rmdir \
261 cmd/rmformat \
262 cmd/rmt \
263 cmd/roles \
264 cmd/rpcgen \
265 cmd/rpcsvc/rpc.bootparamd \
266 cmd/runat \
267 cmd/savecore \
268 cmd/sbdadm \
269 cmd/sdpadm \
270 cmd/sed \
271 cmd/setpgrp \
272 cmd/smbios \
273 cmd/sgs \
274 cmd/smsrv \
275 cmd/smsrverd \
276 cmd/sort \
277 cmd/split \
278 cmd/srptadm \
279 cmd/srptsvc \
280 cmd/stat \
281 cmd/stmfadm \
282 cmd/stmfsvc \
283 cmd/stmsboot \
284 cmd/streams/strcmd \
285 cmd/strings \
286 cmd/su \
287 cmd/sulogin \
288 cmd/svc \
289 cmd/swap \
290 cmd/sync \
291 cmd/syseventadm \
292 cmd/syseventd \
293 cmd/syslogd \
294 cmd/tabs \
295 cmd/tail \
296 cmd/th_tools \
297 cmd/tip \
298 cmd/touch \
299 cmd/tr \
300 cmd/truss \
301 cmd/tty \
302 cmd/tzreload \
303 cmd/uadmin \
304 cmd/ul \
305 cmd/userattr \
306 cmd/users \
307 cmd/utmp_update \
308 cmd/utmpd \
309 cmd/valtools \
310 cmd/vrrpadm \
311 cmd/vt \
312 cmd/wall \
313 cmd/who \
314 cmd/whodo \
315 cmd/wracct \
316 cmd/xargs \
317 cmd/xstr \

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5

new/usr/src/Makefile.lint

```

318 cmd/yes \
319 cmd/yppasswd \
320 cmd/zdb \
321 cmd/zdump \
322 cmd/zfs \
323 cmd/zhack \
324 cmd/zinject \
325 cmd/zlogin \
326 cmd/zoneadm \
327 cmd/zoneadm \
328 cmd/zonecfg \
329 cmd/zonename \
330 cmd/zpool \
331 cmd/zlook \
332 cmd/zttest \
333 lib/abi \
334 lib/auditd_plugins \
335 lib/libbe \
336 lib/pylibbe \
337 lib/brand/sn1 \
338 lib/brand/solaris10 \
339 lib/crypt_modules \
340 lib/extendedFILE \
341 lib/libadm \
342 lib/libadutils \
343 lib/libadt_jni \
344 lib/libaio \
345 lib/libavl \
346 lib/libbrand \
347 lib/libbsdmalloc \
348 lib/libbsm \
349 lib/libc \
350 lib/libc_db \
351 lib/libcfdadm \
352 lib/libcmdutils \
353 lib/libcommutil \
354 lib/libcontract \
355 lib/libcryptoutil \
356 lib/libctf \
357 lib/libdevice \
358 lib/libdevinfo \
359 lib/libdevinfo \
360 lib/libdhcagent \
361 lib/libdhcputil \
362 lib/libdisasm \
363 lib/libdiskmgmt \
364 lib/libdladm \
365 lib/libdlpi \
366 lib/libdoor \
367 lib/libdscfg \
368 lib/libdtrace \
369 lib/libefi \
370 lib/libelfsign \
371 lib/libexacct \
372 lib/libfcoe \
373 lib/libgen \
374 lib/libgrubmgmt \
375 lib/libgss \
376 lib/libhotplug \
377 lib/libidmap \
378 lib/libilb \
379 lib/libinetsvc \
380 lib/libinetutil \
381 lib/libinstzones \
382 lib/libipadm \
383 lib/libipmi \

```

6

new/usr/src/Makefile.lint

```

384 lib/libbipmp \
385 lib/libbipp \
386 lib/libbipsecutil \
387 lib/libbiscsit \
388 lib/libbkmf \
389 lib/libkstat \
390 lib/liblgrp \
391 lib/liblm \
392 lib/libm \
393 lib/libml \
394 lib/libmvec \
395 lib/libmalloc \
396 lib/libmapmalloc \
397 lib/libmapid \
398 lib/libmd \
399 lib/libmp \
400 lib/libmtmalloc \
401 lib/libndmp \
402 lib/libnsctl \
403 lib/libnsl \
404 lib/libnvpair \
405 lib/libnwam \
406 lib/libpam \
407 lib/libpctx \
408 lib/libpicl \
409 lib/libpicltree \
410 lib/libpkg \
411 lib/libpool \
412 lib/libproc \
413 lib/libpthread \
414 lib/libraidcfg \
415 lib/librcm \
416 lib/librdc \
417 lib/libreparse \
418 lib/librestart \
419 lib/librstp \
420 lib/librt \
421 lib/libscf \
422 lib/libsec \
423 lib/libsecdb \
424 lib/libsendfile \
425 lib/libsip \
426 lib/libshare \
427 lib/libslldap \
428 lib/libslp \
429 lib/libsbmfs \
430 lib/libsbmbios \
431 lib/libsbmedia \
432 lib/libsrpt \
433 lib/libstmf \
434 lib/libsun_ima \
435 lib/libsysevent \
436 lib/libthread \
437 lib/libtsnet \
438 lib/libtsol \
439 lib/libumem \
440 lib/libunistat \
441 lib/libuuid \
442 lib/libuutil \
443 lib/libvrrpadm \
444 lib/libwanboot \
445 lib/libwanbootutil \
446 lib/libxnet \
447 lib/libzfs \
448 lib/libzfs_jni \
449 lib/libzonecfg \

```

7

new/usr/src/Makefile.lint

```

450 lib/libzoneinfo \
451 lib/madv \
452 lib/mpss \
453 lib/nametoaddr \
454 lib/ncad_addr \
455 lib/nsswitch \
456 lib/pam_modules \
457 lib/passwdutil \
458 lib/pkcs11 \
459 lib/print \
460 lib/raidcfg_plugins \
461 lib/scsi \
462 lib/smbsrv \
463 lib/fm \
464 lib/udapl \
465 lib/watchmalloc \
466 psm \
467 test \
468 ucbscmd/basename \
469 ucbscmd/biff \
470 ucbscmd/echo \
471 ucbscmd/groups \
472 ucbscmd/mkstr \
473 ucbscmd/printenv \
474 ucbscmd/sum \
475 ucbscmd/test \
476 ucbscmd/users \
477 ucbscmd/whoami

479 i386_SUBDIRS= \
480 cmd/acpihpd \
481 cmd/biosdev \
482 cmd/rtc \
483 cmd/ucodeadm \
484 lib/cfgadm_plugins/sata \
485 lib/cfgadm_plugins/sbd \
486 lib/libfdisk

488 sparc_SUBDIRS= \
489 cmd/datadm \
490 cmd/dcs \
491 cmd/drd \
492 cmd/fruadm \
493 cmd/ldmad \
494 cmd/prtdscp \
495 cmd/prtfru \
496 cmd/sckmd \
497 cmd/virtinfo \
498 cmd/vntsd \
499 lib/libds \
500 lib/libdscp \
501 lib/libpri \
502 lib/libpcp \
503 lib/libtsalarm \
504 lib/libv12n \
505 lib/storage \
506 stand

508 LINTSUBDIRS= $(COMMON_SUBDIRS) $( $(MACH)_SUBDIRS)

510 .PARALLEL: $(LINTSUBDIRS)

512 lint: uts .WAIT subdirs

514 subdirs: $(LINTSUBDIRS)

```

8

new/usr/src/Makefile.lint

9

```
516 uts $(LINTSUBDIRS):      FRC
517     @cd $@; pwd; $(MAKE) lint
519 FRC:
```

```

*****
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30 #

32 include ../Makefile.master

34 #
35 # Note that the commands 'lp', and 'perl' are first in
36 # the list, violating alphabetical order. This is because they are very
37 # long-running and should be given the most wall-clock time for a
38 # parallel build.
39 #
40 # Commands in the FIRST_SUBDIRS list are built before starting the build
41 # of other commands. Currently this includes only 'isaexec' and
42 # 'platexec'. This is necessary because $(ROOT)/usr/lib/isaexec or
43 # $(ROOT)/usr/lib/platexec must exist when some other commands are built
44 # because their 'make install' creates a hard link to one of them.
45 #
46 # Commands are listed one per line so that TeamWare can auto-merge most
47 # changes.
48 #

50 FIRST_SUBDIRS= \
51 isaexec \
52 platexec

54 COMMON_SUBDIRS= \
55 allocate \

```

```

56 availdevs \
57 lp \
58 perl \
59 Adm \
60 abi \
61 adbgen \
62 acct \
63 acctadm \
64 arch \
65 asa \
66 ast \
67 audio \
68 auths \
69 autopush \
70 avs \
71 awk \
72 awk_xpg4 \
73 backup \
74 banner \
75 bart \
76 basename \
77 bc \
78 bdiff \
79 beadm \
80 bnu \
81 boot \
82 busstat \
83 cal \
84 captinfo \
85 cat \
86 cdrw \
87 cfgadm \
88 checkeg \
89 checknr \
90 chgrp \
91 chmod \
92 chown \
93 chroot \
94 clear \
95 clinfo \
96 cmd-crypto \
97 cmd-inet \
98 col \
99 compress \
100 consadm \
101 coreadm \
102 cpio \
103 cpc \
104 cron \
105 crypt \
106 csh \
107 csplit \
108 ctrun \
109 ctstat \
110 ctwatch \
111 datadm \
112 date \
113 dc \
114 dd \
115 deroff \
116 devfsadm \
117 syseventd \
118 devctl \
119 devinfo \
120 devmgmt \
121 devprop \

```

new/usr/src/cmd/Makefile

```

122     dfs.cmds  //
123     diff      //
124     diff3     //
125     diffmk    //
126     dircmp    //
127     dirname   //
128     dis       //
129     diskinfo  //
130     diskmgtd  //
131     dispadmin //
132     dladm     //
133     dlstat    //
134     dlutil    //
135     dmesg     //
136     dodatadm  //
137     dtrace    //
138     du        //
139     dumpadm   //
140     dumpcs    //
141     echo      //
142     ed        //
143     eeprom    //
144     egrep     //
144     eject     //
145     emul64ioct1 //
146     enhance   //
147     env       //
148     eqn       //
149     expand     //
150     expr      //
151     exstr     //
152     factor    //
153     false     //
154     fcinfo    //
155     fcoesvc   //
156     fdetach   //
157     fdformat  //
158     fdisk     //
159     ficl      //
160     filesync  //
162     fgrep     //
161     file      //
162     find      //
163     flowadm   //
164     flowstat  //
165     fm        //
166     fmt       //
167     fmthard   //
168     fmtmsg    //
169     fold      //
170     format    //
171     fs.d      //
172     fstyp     //
173     fuser     //
174     fwflash   //
175     gcore     //
176     gencat    //
177     geniconvtbl //
178     genmsg    //
179     getconf   //
180     getdevpolicy //
181     getent    //
182     getfacl   //
183     getmajor  //
184     getopt    //
185     gettext   //

```

3

new/usr/src/cmd/Makefile

```

186     gettxt    //
187     grep      //
190     grep_xpg4 //
188     groups    //
189     growfs    //
190     grpck     //
191     gss       //
192     hal       //
193     halt      //
194     head      //
195     hostid    //
196     hostname  //
197     hotplug   //
198     hotplugd  //
199     ibd_upgrade //
200     iconv     //
201     id        //
202     idmap     //
203     infocmp   //
204     init      //
205     initpkg   //
206     install.d //
207     intrd     //
208     intrstat  //
209     ipcrm     //
210     ipcs      //
211     ipdadm    //
212     ipf       //
213     isainfo   //
214     isalist   //
215     itutools  //
216     iscsiadm  //
217     iscsid    //
218     iscsitsvc //
219     isns      //
220     itadm     //
221     kbd       //
222     keyserv   //
223     killall   //
224     krb5      //
225     ksh       //
226     kvmstat   //
227     last      //
228     lastcomm  //
229     latencytop //
230     ldap      //
231     ldapcachemgr //
232     lgrpinfo  //
233     line      //
234     link      //
235     dlmgmt    //
236     listen    //
237     loadkeys  //
238     locale    //
239     localedef //
240     lockstat  //
241     locator   //
242     lofiadm   //
243     logadm    //
244     logger    //
245     login     //
246     logins    //
247     look      //
248     ls        //
249     luxadm    //
250     mach      //

```

4

new/usr/src/cmd/Makefile

```

251 mail //
252 mailwrapper //
253 mailx //
254 make //
255 makekey //
256 man //
257 mandoc //
258 mdb //
259 msg //
260 mkdir //
261 mkfifo //
262 mkfile //
263 mkmsgs //
264 mknod //
265 mkpwdict //
266 mktemp //
267 modload //
268 more //
269 mpathadm //
270 msgfmt //
271 msgid //
272 mt //
273 mv //
274 mmdir //
275 ndmpadm //
276 ndmpd //
277 ndmpstat //
278 netadm //
279 netfiles //
280 newform //
281 newgrp //
282 news //
283 newtask //
284 nice //
285 nl //
286 nlsadmin //
287 nohup //
288 nsadmin //
289 nscd //
290 oamuser //
291 oawk //
292 od //
293 pack //
294 pagesize //
295 passmgmt //
296 passwd //
297 pathchk //
298 pbind //
299 pcidr //
300 pcitool //
301 pfexec //
302 pfexecd //
303 pginfo //
304 pgstat //
305 pgrep //
306 picl //
307 plimit //
308 policykit //
309 pools //
310 power //
311 powertop //
312 ppgsz //
313 pg //
314 plockstat //
315 pr //
316 prctl //

```

5

new/usr/src/cmd/Makefile

```

317 print //
318 printf //
319 priocntl //
320 profiles //
321 projadd //
322 projects //
323 prstat //
324 prtconf //
325 prtdiag //
326 prtvtoc //
327 ps //
328 psradm //
329 psrinfo //
330 psrset //
331 ptools //
332 pwck //
333 pwconv //
334 pwd //
335 pyzfs //
336 raidctl //
337 ramdiskadm //
338 rcap //
339 rcm_daemon //
340 rctladm //
341 refer //
342 regcmp //
343 renice //
344 rm //
345 rmdir //
346 rmformat //
347 rmmount //
348 rmt //
349 rmvolmgr //
350 roles //
351 rpcbind //
352 rpcgen //
353 rpcinfo //
354 rpcsvc //
355 runat //
356 sa //
357 saf //
358 sasinfo //
359 savecore //
360 sbdadm //
361 script //
362 scsi //
363 sdiff //
364 sdpadm //
365 sed //
366 sendmail //
367 setfacl //
368 setmnt //
369 setpgrp //
370 setuname //
371 sgs //
372 sh //
373 shcomp //
374 sbios //
375 sbsrv //
376 smserverd //
377 soelim //
378 sort //
379 spell //
380 split //
381 sqlite //
382 srchtxt //

```

6

new/usr/src/cmd/Makefile

```

383      srptadm      \
384      srptsvc     \
385      ssh         \
386      stat        \
387      stmfadm     \
388      stmfproxy   \
389      stmfsvc     \
390      stmsboot    \
391      streams     \
392      strings     \
393      su          \
394      sulogin     \
395      sunpc       \
396      svc         \
397      svr4pkg     \
398      swap        \
399      sync        \
400      sysdef      \
401      syseventadm \
402      syslogd     \
403      tabs        \
404      tail        \
405      tar         \
406      tbl         \
407      tcopy       \
408      tcpd        \
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      uuidgen     \
436      valtools    \
437      vgrind      \
438      vi          \
439      volcheck    \
440      volrmount   \
441      vrrpadmin   \
442      vscan       \
443      vt          \
444      vtfontcvrt \
445      w           \
446      wall        \
447      which       \
448      who         \

```

7

new/usr/src/cmd/Makefile

```

449      whodo      \
450      wracct     \
451      write       \
452      xargs       \
453      xhci        \
454      xstr        \
455      yes         \
456      ypcmd       \
457      yppasswd   \
458      zdb         \
459      zdump       \
460      zfs         \
461      zhack       \
462      zic         \
463      zinject     \
464      zlogin      \
465      zoneadm     \
466      zoneadmd   \
467      zonecfg     \
468      zonename    \
469      zpool       \
470      zlook       \
471      zonestat    \
472      zstreamdump \
473      ztest       \
\
475      i386_SUBDIRS= \
476      acpi          \
477      acpihp        \
478      addbadsec     \
479      biosdev       \
480      diskscan      \
481      nvmeadm       \
482      rtc           \
483      ucodeadm     \
484      xvm           \
\
486      sparc_SUBDIRS= \
487      cvcd          \
488      dcs           \
489      device_remap  \
490      drd           \
491      fruadm        \
492      ldmad         \
493      oplhpd        \
494      prtscp        \
495      prtfru        \
496      scadm         \
497      sckmd         \
498      sf880drd     \
499      virtinfo      \
500      vntsd         \
\
502 # \
503 # Commands that are messaged. Note that 'lp' comes first \
504 # (see previous comment about 'lp'.) \
505 # \
506      MSGSUBDIRS= \
507      lp            \
508      abi           \
509      acctadm       \
510      allocate      \
511      asa           \
512      audio         \
513      audit         \
514      auditconfig  \

```

8

new/usr/src/cmd/Makefile

```

515     auditd          \|
516     auditrecord    \|
517     auditset       \|
518     auths          \|
519     autopush       \|
520     avs            \|
521     awk            \|
522     awk_xpg4       \|
523     backup         \|
524     banner         \|
525     bart           \|
526     basename       \|
527     beadm          \|
528     bnu            \|
529     busstat        \|
530     cal            \|
531     cat            \|
532     cdrw           \|
533     cfgadm         \|
534     checkeq        \|
535     checknr        \|
536     chgrp          \|
537     chmod          \|
538     chown          \|
539     cmd-crypto     \|
540     cmd-inet       \|
541     col            \|
542     compress       \|
543     consadm        \|
544     coreadm        \|
545     cpio           \|
546     cpc            \|
547     cron           \|
548     csh            \|
549     csplit         \|
550     ctrun          \|
551     ctstat         \|
552     ctwatch        \|
553     datadm         \|
554     date           \|
555     dc             \|
556     dcs            \|
557     dd             \|
558     deroff         \|
559     devfsadm       \|
560     dfs.cmds       \|
561     diff           \|
562     diffmk         \|
563     dladm          \|
564     dlstat         \|
565     du             \|
566     dumpcs         \|
567     ed             \|
568     eject          \|
569     env            \|
570     eqn            \|
571     expand          \|
572     expr           \|
573     fcinfo         \|
577     fgrep          \|
574     file           \|
575     filesync       \|
576     find           \|
577     flowadm        \|
578     flowstat       \|
579     fm             \|

```

9

new/usr/src/cmd/Makefile

```

580     fold           \|
581     fs.d           \|
582     fwflash        \|
583     geniconvtbl    \|
584     genmsg         \|
585     getconf        \|
586     getent         \|
587     gettext        \|
588     gettxt         \|
589     grep           \|
594     grep_xpg4     \|
590     grpck          \|
591     gss            \|
592     halt           \|
593     head           \|
594     hostname       \|
595     hotplug        \|
596     iconv          \|
597     id             \|
598     idmap          \|
599     isaexec        \|
600     iscsiadm       \|
601     iscsid         \|
602     isns           \|
603     itadm          \|
604     kbd            \|
605     krb5           \|
606     ksh            \|
607     last           \|
608     ldap           \|
609     ldapcachemgr   \|
610     lgrpinfo       \|
611     locale         \|
612     lofiadm        \|
613     logadm         \|
614     logger         \|
615     logins         \|
616     ls             \|
617     luxadm         \|
618     mailx          \|
619     make           \|
620     man            \|
621     mesg           \|
622     mkdir          \|
623     mkpwdict       \|
624     mktemp         \|
625     more           \|
626     mpathadm       \|
627     msgfmt         \|
628     mv             \|
629     ndmpadm        \|
630     ndmpstat       \|
631     newgrp         \|
632     newtask        \|
633     nice           \|
634     nohup          \|
635     oawk           \|
636     pack           \|
637     passwd         \|
638     passmgmt       \|
639     pathchk        \|
640     pexec          \|
641     pg             \|
642     pgrep          \|
643     picl           \|
644     pools          \|

```

10

```

645     power      \
646     pr         \
647     praudit   \
648     print     \
649     profiles  \
650     projadd   \
651     projects  \
652     prstat   \
653     prtdiag  \
654     ps        \
655     psrinfo  \
656     ptools   \
657     pwconv   \
658     pwd      \
659     pyzfs    \
660     raidctl  \
661     ramdiskadm \
662     rcap     \
663     rcm_daemon \
664     refer   \
665     regcmp  \
666     renice  \
667     roles  \
668     rm      \
669     rmdir  \
670     rmformat \
671     rmmount \
672     rmvolmgr \
673     sasinfo \
674     sbdadm  \
675     scadm   \
676     script  \
677     scsi    \
678     sdiff   \
679     sdpadm  \
680     sgs     \
681     sh      \
682     shcomp  \
683     smbstrv \
684     sort    \
685     split   \
686     srptadm \
687     stat    \
688     stmfadm \
689     stmsboot \
690     strings \
691     su      \
692     svc     \
693     svr4pkg \
694     swap    \
695     syseventadm \
696     syseventd \
697     tabs    \
698     tar     \
699     tbl     \
700     time    \
701     tnf     \
702     touch   \
703     tput    \
704     troff   \
705     tsol    \
706     tty     \
707     ttymon  \
708     tzreload \
709     ul      \
710     uname   \

```

```

711     units    \
712     unlink   \
713     unpack   \
714     userattr \
715     valtools \
716     vgrind   \
717     vi       \
718     volcheck \
719     volrmmount \
720     vrrpadm  \
721     vscan    \
722     w        \
723     who      \
724     whodo    \
725     wracct   \
726     write    \
727     xargs    \
728     yppasswd \
729     zdump    \
730     zfs      \
731     zic      \
732     zlogin   \
733     zoneadm  \
734     zoneadmd \
735     zonecfg  \
736     zonename \
737     zpool    \
738     zonestat \
740     sparc_MSGSUBDIRS= \
741     fruadm      \
742     prttdscp    \
743     prtftru     \
744     virtinfo    \
745     vntsd       \
747     i386_MSGSUBDIRS= \
748     ucodeadm     \
750 # \
751 # commands that use dcgettext for localized time, LC_TIME \
752 # \
753     DCSUBDIRS= \
754     cal        \
755     cfgadm     \
756     diff       \
757     ls         \
758     pr         \
759     ps         \
760     tar        \
761     w          \
762     who        \
763     whodo      \
764     write      \
766 # \
767 # commands that belong only to audit. \
768 # \
769     AUDITSUBDIRS= \
770     amt           \
771     audit        \
772     audit_warn   \
773     auditconfig  \
774     auditd       \
775     auditrecord  \
776     auditreduce  \

```

new/usr/src/cmd/Makefile

13

```
777     auditset      \
778     auditstat     \
779     praudit

781 #
782 # commands not owned by the systems group
783 #
784 BWOSDIRS=

787 all :=           TARGET = all
788 install :=       TARGET = install
789 clean :=         TARGET = clean
790 clobber :=       TARGET = clobber
791 lint :=          TARGET = lint
792 _msg :=          TARGET = _msg
793 _dc :=           TARGET = _dc

795 .KEEP_STATE:

797 SUBDIRS = $(COMMON_SUBDIRS) $($ (MACH)_SUBDIRS)

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

801 all install clean clobber lint: $(FIRST_SUBDIRS) .WAIT $(SUBDIRS) \
802     $(AUDITSUBDIRS)

804 #
805 # Manifests cannot be checked in parallel, because we are using
806 # the global repository that is in $(SRC)/cmd/svc/seed/global.db.
807 # For this reason, to avoid .PARALLEL and .NO_PARALLEL conflicts,
808 # we spawn off a sub-make to perform the non-parallel 'make check'
809 #
810 check:
811     $(MAKE) -f Makefile.check check

813 #
814 # The .WAIT directive works around an apparent bug in parallel make.
815 # Evidently make was getting the target _msg vs. _dc confused under
816 # some level of parallelization, causing some of the _dc objects
817 # not to be built.
818 #
819 _msg: $(MSGSUBDIRS) $($ (MACH)_MSGSUBDIRS) .WAIT _dc

821 _dc: $(DCSUBDIRS)

823 #
824 # Dependencies
825 #
826 fs.d:  fstyp
827 ksh:   shcomp isaexec
828 print: lp
829 fmt:   mailx

831 $(FIRST_SUBDIRS) $(BWOSDIRS) $(SUBDIRS) $(AUDITSUBDIRS): FRC
832     @if [ -f $@/Makefile ]; then \
833         cd $@; pwd; $(MAKE) $(TARGET); \
834     else \
835         true; \
836     fi

838 FRC:
```

new/usr/src/cmd/diff3/diff3.sh

1

```
*****
2640 Thu Dec 28 10:33:33 2017
new/usr/src/cmd/diff3/diff3.sh
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1 #!/usr/bin/sh
2 #
3 # CDDL HEADER START
4 #
5 # The contents of this file are subject to the terms of the
6 # Common Development and Distribution License, Version 1.0 only
7 # (the "License"). You may not use this file except in compliance
8 # with the License.
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10 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
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20 #
21 # CDDL HEADER END
22 #
23 # Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T
24 # All Rights Reserved
25 #
26 #
27 # Copyright (c) 1999, 2001 by Sun Microsystems, Inc.
28 # All rights reserved.
29 #
30 #ident "%Z%M% %I% %E% SMI" /* SVr4.0 1.4 */
31 #
32 # usage="usage: diff3 file1 file2 file3"
33 #
34 # mktmpdir - Create a private (mode 0700) temporary directory inside of /tmp
35 # for this process's temporary files. We set up a trap to remove the
36 # directory on exit (trap 0), and also on SIGHUP, SIGINT, SIGQUIT, SIGPIPE,
37 # and SIGTERM.
38 #
39 # mktmpdir() {
40 #     tmpdir=/tmp/diff3.$$
41 #     trap '/usr/bin/rm -rf $tmpdir' 0 1 2 3 13 15
42 #     /usr/bin/mkdir -m 700 $tmpdir || exit 1
43 # }
44 #
45 # mktmpdir
46 #
47 # e=
48 # case $1 in
49 # *)
50 #     e=$1
51 #     shift;;
52 # esac
53 # if [ $# != 3 ]; then
54 #     echo ${usage} 1>&2
55 #     exit 1
56 # fi
```

new/usr/src/cmd/diff3/diff3.sh

2

```
54 if [ \( -f $1 -o -c $1 \) -a \( -f $2 -o -c $2 \) -a \( -f $3 -o -c $3 \) ]; then
55 :
56 else
57     echo ${usage} 1>&2
58     exit 1
59 fi
60 fl=$1 f2=$2 f3=$3
61 if [ -c $f1 ]
62 then
63     /usr/bin/cat $f1 > $tmpdir/d3c$$
64     fl=$tmpdir/d3c$$
65 fi
66 if [ -c $f2 ]
67 then
68     /usr/bin/cat $f2 > $tmpdir/d3d$$
69     f2=$tmpdir/d3d$$
70 fi
71 if [ -c $f3 ]
72 then
73     /usr/bin/cat $f3 > $tmpdir/d3e$$
74     f3=$tmpdir/d3e$$
75 fi
76
77 /usr/bin/diff $f1 $f3 > $tmpdir/d3a$$ 2> $tmpdir/d3a$$err
78 STATUS=$?
79 if [ $STATUS -eq 1 ]
80 then
81     /usr/bin/grep -q "^[<>]" $tmpdir/d3a$$
82     /usr/xpg4/bin/grep -q "^[<>]" $tmpdir/d3a$$
83     RET=$?
84     if [ $RET -eq 1 ]
85     then
86         /usr/bin/cat $tmpdir/d3a$$
87         exit $STATUS
88     fi
89     if [ $RET -gt 1 ]
90     then
91         echo "diff3 failed" 1>&2
92         exit $STATUS
93     fi
94 fi
95
96 if [ $STATUS -gt 1 ]
97 then
98     /usr/bin/cat $tmpdir/d3a$$err
99     exit $STATUS
100 fi
101
102 /usr/bin/diff $f2 $f3 > $tmpdir/d3b$$ 2> $tmpdir/d3b$$err
103 STATUS=$?
104 if [ $STATUS -eq 1 ]
105 then
106     /usr/bin/grep -q "^[<>]" $tmpdir/d3b$$
107     /usr/xpg4/bin/grep -q "^[<>]" $tmpdir/d3b$$
108     RET=$?
109     if [ $RET -eq 1 ]
110     then
111         /usr/bin/cat $tmpdir/d3b$$
112         exit $STATUS
113     fi
114     if [ $RET -gt 1 ]
115     then
116         echo "diff3 failed" 1>&2
117         exit $STATUS
```

new/usr/src/cmd/diff3/diff3.sh

3

```
118         fi
119 fi
121 if [ $STATUS -gt 1 ]
122 then
123     /usr/bin/cat $tmpdir/d3b$.err
124     exit $STATUS
125 fi
127 /usr/lib/diff3prog $e $tmpdir/d3[ab]$$ $f1 $f2 $f3
```

```

*****
1818 Thu Dec 28 10:33:33 2017
new/usr/src/cmd/grep/Makefile
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1 #
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20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
23 #ident "%Z%M% %I% %E% SMI"
24 #
25 # Copyright (c) 1989,1996, by Sun Microsystems, Inc.
26 # All rights reserved.
25 #

27 PROG= grep
28 FFILE= fgrep
29 EFILE= egrep
30 #endif /* ! codereview */

32 include ../Makefile.cmd

34 CERRWARN += _gcc=-Wno-parentheses
35 CERRWARN += _gcc=-Wno-uninitialized

37 ROOTXPG4LINKS = $(ROOTXPG4BIN)/$(FFILE) $(ROOTXPG4BIN)/$(EFILE) $(ROOTXPG4BIN)/$
38 ROOTLINKS = $(ROOTBIN)/$(FFILE) $(ROOTBIN)/$(EFILE)

40 CFLAGS += $(CCVERBOSE)
41 #endif /* ! codereview */
42 CPPFLAGS += -D_FILE_OFFSET_BITS=64
30 LDLIBS += -lgen
31 XGETFLAGS += -a -x grep.xcl

44 POFILE= grep_xpg4.po
45 POFILES= grep.po
46 #endif /* ! codereview */

48 .KEEP_STATE:

```

```

50 all: $(PROG)

52 install: all $(ROOTPROG) $(ROOTLINKS) $(ROOTXPG4LINKS)

54 $(ROOTLINKS): $(ROOTPROG)
55 -$(RM) $@
56 -$(LN) $(ROOTPROG) $@

58 $(ROOTXPG4LINKS): $(ROOTPROG)
59 -$(RM) $@
60 -$(SYMLINK) ../../bin/grep $@

62 $(POFILE): $(POFILES)
63 $(RM) $@
64 $(CP) $(POFILES) $@

66 # Make the links locally for test purposes
67 test: $(FFILE) $(EFILE)

69 $(FFILE): $(PROG)
70 @$$(RM) $(FFILE); $(LN) $(PROG) $(FFILE)

72 $(EFILE): $(PROG)
73 @$$(RM) $(EFILE); $(LN) $(PROG) $(EFILE)
33 install: all $(ROOTPROG)

75 clean:

77 lint: lint_PROG

79 include ../Makefile.targ

```

new/usr/src/cmd/grep/grep.c

1

```
*****
38178 Thu Dec 28 10:33:33 2017
new/usr/src/cmd/grep/grep.c
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
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24 * Copyright 2005 Sun Microsystems, Inc.  All rights reserved.
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27 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
28 /*      All Rights Reserved */
29
30 /*      Copyright (c) 1987, 1988 Microsoft Corporation */
31 /*      All Rights Reserved */
32
33 /* Copyright 2012 Nexenta Systems, Inc.  All rights reserved. */
34
35 /*
36 * grep - pattern matching program - combined grep, egrep, and fgrep.
37 * Based on MKS grep command, with XCU & Solaris mods.
38 * Copyright 2013 Damian Bogel. All rights reserved.
39 */
40
41 /*
42 * Copyright 1985, 1992 by Mortice Kern Systems Inc.  All rights reserved.
43 * grep -- print lines matching (or not matching) a pattern
44 *
45 * status returns:
46 *      0 - ok, and some matches
47 *      1 - ok, but no matches
48 *      2 - some error
49 */
50
51 /* Copyright 2017 Nexenta Systems, Inc.  All rights reserved. */
52
53 /*
54 * Copyright 2013 Damian Bogel. All rights reserved.
55 */
```

new/usr/src/cmd/grep/grep.c

2

```
41 */
42 #include <sys/types.h>
43
44 #include <string.h>
45 #include <stdlib.h>
46 #endif /* ! codereview */
47 #include <ctype.h>
48 #include <stdarg.h>
49 #include <regex.h>
50 #include <limits.h>
51 #include <sys/types.h>
52 #include <sys/stat.h>
53 #endif /* ! codereview */
54 #include <fcntl.h>
55 #include <stdio.h>
56 #endif /* ! codereview */
57 #include <locale.h>
58 #include <wchar.h>
59 #include <errno.h>
60 #include <memory.h>
61 #include <regex.h>
62 #include <stdio.h>
63 #include <stdlib.h>
64 #include <string.h>
65 #include <unistd.h>
66 #include <wctype.h>
67 #endif /* ! codereview */
68 #include <ftw.h>
69 #include <limits.h>
70 #include <sys/param.h>
71
72 static const char *errstr[] = {
73     "Range endpoint too large.",
74     "Bad number.",
75     "'\\digit' out of range.",
76     "No remembered search string.",
77     "\\( \\) imbalance.",
78     "Too many \\(.",
79     "More than 2 numbers given in \\{ \\}.",
80     "} expected after \\.",
81     "First number exceeds second in \\{ \\}.",
82     "[ ] imbalance.",
83     "Regular expression overflow.",
84     "Illegal byte sequence.",
85     "Unknown regexp error code!",
86     NULL
87 };
88
89 #define STDIN_FILENAME gettext("(standard input)")
90
91 #define BSIZE          512          /* Size of block for -b */
92 #define BUFSIZE        8192        /* Input buffer size */
93 #define MAX_DEPTH      1000        /* how deep to recurse */
94
95 #define AFTER          1            /* 'After' Context */
96 #define BEFORE         2            /* 'Before' Context */
97 #define CONTEXT (AFTER|BEFORE)     /* Full Context */
98
99 #define M_CSETSIZE     256         /* singlebyte chars */
100 static int             bmglen;     /* length of BMG pattern */
101 static char            *bmgpat;    /* BMG pattern */
102 static int             bmgtab[M_CSETSIZE]; /* BMG delta table */
103
104 typedef struct _PATTERN {
105     char *pattern; /* original pattern */
106     wchar_t *wpattern; /* wide, lowercased pattern */
107 }
```



```

83     struct _PATTERN *next;
84     regex_t re;          /* compiled pattern */
85 } PATTERN;

87 static PATTERN *patterns;
88 static char errstr[128]; /* regerror string buffer */
89 static int regflags = 0; /* regcomp options */
90 static int matched = 0; /* return of the grep() */
91 static int errors = 0; /* count of errors */
92 static uchar_t fgrep = 0; /* Invoked as fgrep */
93 static uchar_t egrep = 0; /* Invoked as egrep */
94 static boolean_t nvflag = B_TRUE; /* Print matching lines */
95 static uchar_t cflag; /* Count of matches */
96 static uchar_t iflag; /* Case insensitive matching */
97 static uchar_t hflag; /* Precede lines by file name */
98 static uchar_t lflag; /* Suppress printing of filename */
99 static uchar_t nflag; /* Print file names of matches */
100 static uchar_t rflag; /* Precede lines by line number */
101 static uchar_t rflag; /* Search directories recursively */
102 static uchar_t bflag; /* Precede matches by block number */
103 static uchar_t sflag; /* Suppress file error messages */
104 static uchar_t qflag; /* Suppress standard output */
105 static uchar_t wflag; /* Search for expression as a word */
106 static uchar_t xflag; /* Anchoring */
107 static uchar_t Eflag; /* Egrep or -E flag */
108 static uchar_t Fflag; /* Fgrep or -F flag */
109 static uchar_t Rflag; /* Like rflag, but follow symlinks */
110 static uchar_t outfn; /* Put out file name */
111 static uchar_t conflag; /* show context of matches */
112 static char *cmdname;

114 static int use_wchar, use_bmg, mblocale;

116 static size_t outbuflen, prntbuflen, conbuflen;
117 static unsigned long conalen, conblen, conmatches;
118 static char *prntbuf, *conbuf;
119 static wchar_t *outline;

121 static void addfile(const char *fn);
122 static void addpattern(char *s);
123 static void fixpatterns(void);
124 static void usage(void);
125 static int grep(int, const char *);
126 static void bmgcomp(char *, int);
127 static char *bmgexec(char *, char *);
128 #define errmsg(msg, arg) (void) fprintf(stderr, gettext(msg), arg)
129 #define BLKSIZE 512
130 #define GBUFSIZ 8192
131 #define MAX_DEPTH 1000

83 static int temp;
84 static long long lnum;
85 static char *linebuf;
86 static char *prntbuf = NULL;
87 static long fw_lPrntBufLen = 0;
88 static int nflag;
89 static int bflag;
90 static int lflag;
91 static int cflag;
92 static int rflag;
93 static int Rflag;
94 static int vflag;
95 static int sflag;
96 static int iflag;
97 static int wflag;
98 static int hflag;

```

```

99 static int Hflag;
100 static int qflag;
101 static int errflag;
102 static int nfile;
103 static long long tln;
104 static int nsucc;
105 static int outfn = 0;
106 static int nlflag;
107 static char *ptr, *ptrend;
108 static char *expbuf;

110 static void execute(const char *, int);
111 static void regerr(int);
112 static void prepare(const char *);
128 static int recursive(const char *, const struct stat *, int, struct FTW *);
129 static void process_path(const char *);
130 static void process_file(const char *, int);
114 static int succeed(const char *);

132 /*
133  * mainline for grep
134  */
135 #endif /* ! codereview */
136 int
137 main(int argc, char **argv)
138 {
139     char *ap, *ttest;
140 #endif /* ! codereview */
141     int c;
142     int fflag = 0;
143     int i, n_pattern = 0, n_file = 0;
144     char **pattern_list = NULL;
145     char **file_list = NULL;
146     char *arg;
147     extern int optind;

147     (void) setlocale(LC_ALL, "");
148 #if !defined(TEXT_DOMAIN) /* Should be defined by cc -D */
149 #define TEXT_DOMAIN "SYS_TEST" /* Use this only if it weren't */
150 #endif
151     (void) textdomain(TEXT_DOMAIN);

153     /*
154      * true if this is running on the multibyte locale
155      */
156     mblocale = (MB_CUR_MAX > 1);
157     /*
158      * skip leading slashes
159      */
160     cmdname = argv[0];
161     if (ap = strrchr(cmdname, '/'))
162         cmdname = ap + 1;

164     ap = cmdname;
165     /*
166      * Detect egrep/fgrep via command name, map to -E and -F options.
167      */
168     if (*ap == 'e' || *ap == 'E') {
169         regflags |= REG_EXTENDED;
170         egrep++;
171     } else {
172         if (*ap == 'f' || *ap == 'F') {
173             fgrep++;
174         }
175     }

```

```

177  /* check for non-standard "--line-count" option */
178  for (i = 1; i < argc; i++) {
179      if (strcmp(argv[i], "--") == 0)
180          break;

182      /* isdigit() check prevents negative arguments */
183      if ((argv[i][0] == '-') && isdigit(argv[i][1])) {
184          if (strlen(&argv[i][1]) !=
185              strspn(&argv[i][1], "0123456789")) {
186              (void) fprintf(stderr, gettext(
187                  "%s: Bad number flag\n"), argv[0]);
188              usage();
189          }

191          errno = 0;
192          conalen = conblen = strtoul(&argv[i][1], (char **)NULL,
193              10);

195          if (errno != 0 || conalen >= ULONG_MAX) {
196              (void) fprintf(stderr, gettext(
197                  "%s: Bad context argument\n"), argv[0]);
198          } else if (conalen)
199              conflag = CONTEXT;

201          while (i < argc) {
202              argv[i] = argv[i + 1];
203              i++;
204          }
205          argc--;
206      }
207  }

209  while ((c = getopt(argc, argv, "vwchHilnrbs:f:qxEFIRA:B:C:")) != EOF) {
210      unsigned long tval;
211      while ((c = getopt(argc, argv, "hHqblcnRrsviyw")) != -1)
212          switch (c) {
213              case 'v': /* POSIX: negate matches */
214                  nvflag = B_FALSE;
215                  /* based on options order h or H is set as in GNU grep */
216                  case 'h':
217                      hflag++;
218                      Hflag = 0; /* h excludes H */
219                      break;

220                  case 'c': /* POSIX: write count */
221                      cflag++;
222                  case 'H':
223                      if (!lflag) /* H is excluded by l */
224                          Hflag++;
225                      hflag = 0; /* H excludes h */
226                      break;

227                  case 'i': /* POSIX: ignore case */
228                      iflag++;
229                      regflags |= REG_ICASE;
230                  case 'q': /* POSIX: quiet: status only */
231                      qflag++;
232                      break;

233                  case 'l': /* POSIX: Write filenames only */
234                      lflag++;
235                  case 'v':
236                      vflag++;
237                      break;

238                  case 'n': /* POSIX: Write line numbers */

```

```

143      case 'c':
144          cflag++;
145          break;
146      case 'n':
147          nflag++;
148          break;

149      case 'r': /* Solaris: search recursively */
150      case 'R':
151          Rflag++;
152          /* FALLTHROUGH */
153      case 'r':
154          rflag++;
155          break;

156      case 'b': /* Solaris: Write file block numbers */
157      case 'b':
158          bflag++;
159          break;

160      case 's': /* POSIX: No error msgs for files */
161      case 's':
162          sflag++;
163          break;

164      case 'e': /* POSIX: pattern list */
165          n_pattern++;
166          pattern_list = realloc(pattern_list,
167              sizeof(char *) * n_pattern);
168          if (pattern_list == NULL) {
169              (void) fprintf(stderr,
170                  gettext("%s: out of memory\n"),
171                  cmdname);
172              exit(2);
173          }
174          *(pattern_list + n_pattern - 1) = optarg;
175          break;

176      case 'f': /* POSIX: pattern file */
177          fflag = 1;
178          n_file++;
179          file_list = realloc(file_list,
180              sizeof(char *) * n_file);
181          if (file_list == NULL) {
182              (void) fprintf(stderr,
183                  gettext("%s: out of memory\n"),
184                  cmdname);
185              exit(2);
186          }
187          *(file_list + n_file - 1) = optarg;
188          break;

189      /* based on options order h or H is set as in GNU grep */
190      case 'h': /* Solaris: suppress printing of file name */
191          hflag = 1;
192          Hflag = 0;
193          break;
194      /* Solaris: precede every matching with file name */
195      case 'H':
196          Hflag = 1;
197          hflag = 0;
198      case 'l':
199          lflag++;
200          Hflag = 0; /* l excludes H */
201          break;

```

```

283     case 'q':      /* POSIX: quiet: status only */
284         qflag++;
165     case 'y':
166     case 'i':
167         iflag++;
285         break;

287     case 'w':      /* Solaris: treat pattern as word */
169     case 'w':
288         wflag++;
289         break;

291     case 'x':      /* POSIX: full line matches */
292         xflag++;
293         regflags |= REG_ANCHOR;
294         break;

296     case 'E':      /* POSIX: Extended RE's */
297         regflags |= REG_EXTENDED;
298         Eflag++;
299         break;

301     case 'F':      /* POSIX: strings, not RE's */
302         Fflag++;
303         break;

305     case 'R':      /* Solaris: like rflag, but follow symlinks */
306         Rflag++;
307         rflag++;
308         break;

310     case 'A':      /* print N lines after each match */
311         errno = 0;
312         conalen = strtoul(optarg, &test, 10);
313         /* *test will be non-null if optarg is negative */
314         if (errno != 0 || *test != '\0' ||
315             conalen >= ULONG_MAX) {
316             (void) fprintf(stderr, gettext(
317                 "%s: Bad context argument: %s\n",
318                 argv[0], optarg);
319             exit(2);
320         }
321         if (conalen)
322             conflag |= AFTER;
323         else
324             conflag &= ~AFTER;
325         break;

326     case 'B':      /* print N lines before each match */
327         errno = 0;
328         conblen = strtoul(optarg, &test, 10);
329         /* *test will be non-null if optarg is negative */
330         if (errno != 0 || *test != '\0' ||
331             conblen >= ULONG_MAX) {
332             (void) fprintf(stderr, gettext(
333                 "%s: Bad context argument: %s\n",
334                 argv[0], optarg);
335             exit(2);
172     case '?':
173         errflg++;
336     }
337     if (conblen)
338         conflag |= BEFORE;
339     else
340         conflag &= ~BEFORE;
341     break;
342     case 'C':      /* print N lines around each match */

```

```

343         errno = 0;
344         tval = strtoul(optarg, &test, 10);
345         /* *test will be non-null if optarg is negative */
346         if (errno != 0 || *test != '\0' || tval >= ULONG_MAX) {
347             (void) fprintf(stderr, gettext(
348                 "%s: Bad context argument: %s\n",
349                 argv[0], optarg);

176     if (errflg || (optind >= argc)) {
177         errmsg("Usage: grep [-c|-l|-q] [-r|-R] -hHbnsviw "
178             "pattern file . . .\n",
179             (char *)NULL);
350         exit(2);
351     }
352     if (tval) {
353         if ((conflag & BEFORE) == 0)
354             conblen = tval;
355         if ((conflag & AFTER) == 0)
356             conalen = tval;
357         conflag = CONTEXT;
358     }
359     break;
360 #endif /* ! codereview */

362     default:
363         usage();
364     }
365 }
366 /*
367  * If we're invoked as egrep or fgrep we need to do some checks
368  */
182     argv = &argv[optind];
183     argc -= optind;
184     nfile = argc - 1;

370     if (egrep || fgrep) {
371         /*
372          * Use of -E or -F with egrep or fgrep is illegal
373          */
374         if (Eflag || Fflag)
375             usage();
376         /*
377          * Don't allow use of wflag with egrep / fgrep
378          */
379         if (wflag)
380             usage();
381         /*
382          * For Solaris the -s flag is equivalent to XCU -q
383          */
384         if (sflag)
385             qflag++;
386         /*
387          * done with above checks - set the appropriate flags
388          */
389         if (egrep)
390             Eflag++;
391         else
392             Fflag++; /* Else fgrep */
393     }
186     if (strrchr(*argv, '\n') != NULL)
187         regerr(41);

395     if (wflag && (Eflag || Fflag)) {
396         /*
397          * -w cannot be specified with grep -F
398          */

```

```

399     usage();
189     if (iflag) {
190         for (arg = *argv; *arg != NULL; ++arg)
191             *arg = (char)tolower((int)((unsigned char)*arg));
400     }

402     /*
403     * -E and -F flags are mutually exclusive - check for this
404     */
405     if (Eflag && Fflag)
406         usage();

408     /*
409     * -l overrides -H like in GNU grep
410     */
411     if (lflag)
412         Hflag = 0;

414     /*
415     * -c, -l and -q flags are mutually exclusive
416     * We have -c override -l like in Solaris.
417     * -q overrides -l & -c programmatically in grep() function.
418     */
419     if (cflag && lflag)
420         lflag = 0;

422     argv += optind - 1;
423     argc -= optind - 1;
194     if (wflag) {
195         unsigned int    wordlen;
196         char            *wordbuf;

425     /*
426     * Now handling -e and -f option
427     */
428     if (pattern_list) {
429         for (i = 0; i < n_pattern; i++) {
430             addpattern(pattern_list[i]);
431         }
432         free(pattern_list);
433     }
434     if (file_list) {
435         for (i = 0; i < n_file; i++) {
436             addfile(file_list[i]);
437         }
438         free(file_list);
198     wordlen = strlen(*argv) + 5; /* '\\\ '<' *argv '\\\ '>' '\0' */
199     if ((wordbuf = malloc(wordlen)) == NULL) {
200         errmsg("grep: Out of memory for word\n", (char *)NULL);
201         exit(2);
439     }

441     /*
442     * No -e or -f? Make sure there is one more arg, use it as the pattern.
443     */
444     if (patterns == NULL && !fflag) {
445         if (argc < 2)
446             usage();
447         addpattern(argv[1]);
448         argc--;
449         argv++;
204     (void) strcpy(wordbuf, "\\<");
205     (void) strcat(wordbuf, *argv);
206     (void) strcat(wordbuf, "\\>");
207     *argv = wordbuf;
450     }

```

```

452     /*
453     * If -x flag is not specified or -i flag is specified
454     * with fgrep in a multibyte locale, need to use
455     * the wide character APIs. Otherwise, byte-oriented
456     * process will be done.
457     */
458     use_wchar = Fflag && mblocale && (!xflag || iflag);
210     expbuf = compile(*argv, (char *)0, (char *)0);
211     if (regerrno)
212         regerr(regerrno);

460     /*
461     * Compile Patterns and also decide if BMG can be used
462     */
463     fixpatterns();

465     /* Process all files: stdin, or rest of arg list */
466     if (argc < 2) {
467         matched = grep(0, STDIN_FILENAME);
468     } else {
469         if (Hflag || (argc > 2 && hflag == 0))
470             outfn = 1; /* Print filename on match line */
471         for (argv++; *argv != NULL; argv++) {
472             process_path(*argv);
473         }
474     }
475     /*
476     * Return() here is used instead of exit
477     */

479     (void) fflush(stdout);
214     if (--argc == 0)
215         execute(NULL, 0);
216     else
217         while (argc-- > 0)
218             prepare(++argv);

481     if (errors)
482         return (2);
483     return (matched ? 0 : 1);
220     return (nsucc == 2 ? 2 : (nsucc == 0 ? 1 : 0));
484 }

486 static void
487 process_path(const char *path)
224 prepare(const char *path)
488 {
489     struct stat st;
490     int walkflags = FTW_CHDIR;
491     char *buf = NULL;

493     if (rflag) {
494         if (stat(path, &st) != -1 &&
495             (st.st_mode & S_IFMT) == S_IFDIR) {
496             outfn = 1; /* Print filename */
233             outfn = 1;

498         /*
499         * Add trailing slash if arg
500         * is directory, to resolve symlinks.
501         */
502         if (path[strlen(path) - 1] != '/') {
503             (void) asprintf(&buf, "%s/", path);
504             if (buf != NULL)
505                 path = buf;

```

```

506     }
507
508     /*
509     * Search through subdirs if path is directory.
510     * Don't follow symlinks if Rflag is not set.
511     */
512     if (!Rflag)
513         walkflags |= FTW_PHYS;
514
515     if (nftw(path, recursive, MAX_DEPTH, walkflags) != 0) {
516         if (!sflag)
517             (void) fprintf(stderr,
518                 gettext("%s: can't open \"%s\"\n"),
519                 cmdname, path);
520         errors = 1;
521         errmsg("grep: can't open %s\n", path);
522         nsucc = 2;
523     }
524     return;
525 }
526 process_file(path, 0);
527 execute(path, 0);
528 }
529
530 /*
531 * Read and process all files in directory recursively.
532 */
533 #endif /* ! codereview */
534 static int
535 recursive(const char *name, const struct stat *statp, int info, struct FTW *ftw)
536 {
537     /*
538     * Process files and follow symlinks if Rflag set.
539     * process files and follow symlinks if Rflag set.
540     */
541     if (info != FTW_F) {
542         /* Report broken symlinks and unreadable files */
543         #endif /* ! codereview */
544         if (!sflag &&
545             (info == FTW_SLN || info == FTW_DNR || info == FTW_NS)) {
546             (void) fprintf(stderr,
547                 gettext("%s: can't open \"%s\"\n"), cmdname, name);
548             /* report broken symlinks and unreadable files */
549             errmsg("grep: can't open %s\n", name);
550         }
551         return (0);
552     }
553 }
554
555 /* Skip devices and pipes if Rflag is not set */
556 /* skip devices and pipes if Rflag is not set */
557 if (!Rflag && !S_ISREG(statp->st_mode))
558     return (0);
559 /* Pass offset to relative name from FTW_CHDIR */
560 process_file(name, ftw->base);
561
562 /* pass offset to relative name from FTW_CHDIR */
563 execute(name, ftw->base);
564 return (0);
565 }
566
567 /*
568 * Opens file and call grep function.
569 */
570 #endif /* ! codereview */

```

```

562 static void
563 process_file(const char *name, int base)
564 execute(const char *file, int base)
565 {
566     int fd;
567
568     if ((fd = open(name + base, O_RDONLY)) == -1) {
569         errors = 1;
570         if (!sflag) /* Silent mode */
571             (void) fprintf(stderr, gettext(
572                 "%s: can't open \"%s\"\n"),
573                 cmdname, name);
574         return;
575     }
576     matched |= grep(fd, name);
577     (void) close(fd);
578
579     if (ferror(stdout)) {
580         (void) fprintf(stderr, gettext(
581             "%s: error writing to stdout\n"),
582             cmdname);
583         (void) fflush(stdout);
584         exit(2);
585     }
586 }
587
588 char *lbuf, *p;
589 long count;
590 long offset = 0;
591 char *next_ptr = NULL;
592 long next_count = 0;
593
594 /*
595 * Add a file of strings to the pattern list.
596 */
597 static void
598 addfile(const char *fn)
599 {
600     FILE *fp;
601     char *inbuf;
602     char *bufp;
603     size_t bufsiz, buflen, bufused;
604     tln = 0;
605
606     /*
607     * Open the pattern file
608     */
609     if ((fp = fopen(fn, "r")) == NULL) {
610         (void) fprintf(stderr, gettext("%s: can't open \"%s\"\n"),
611             cmdname, fn);
612         exit(2);
613     }
614     bufsiz = BUFSIZE;
615     if ((inbuf = malloc(bufsiz)) == NULL) {
616         (void) fprintf(stderr,
617             gettext("%s: out of memory\n"), cmdname);
618         exit(2);
619     }
620     bufp = inbuf;
621     bufused = 0;
622     /*
623     * Read in the file, reallocing as we need more memory
624     */
625     while (fgets(bufp, bufsiz - bufused, fp) != NULL) {
626         buflen = strlen(bufp);
627         bufused += buflen;

```

```

621         if (bufused + 1 == bufsiz && bufp[buflen - 1] != '\n') {
622             /*
623              * if this line does not fit to the buffer,
624              * realloc larger buffer
625              */
626             bufsiz += BUFSIZE;
627             if ((inbuf = realloc(inbuf, bufsiz)) == NULL) {
628                 (void) fprintf(stderr,
629                     gettext("%s: out of memory\n"),
630                     cmdname);
631                 exit(2);
632             }
633             bufp = inbuf + bufused;
634             continue;
635         }
636         if (prntbuf == NULL) {
637             fw_lPrntBufLen = GBUFSIZ + 1;
638             if ((prntbuf = malloc(fw_lPrntBufLen)) == NULL) {
639                 exit(2); /* out of memory - BAIL */
640             }
641             if (bufp[buflen - 1] == '\n') {
642                 bufp[--buflen] = '\0';
643             }
644             if ((linebuf = malloc(fw_lPrntBufLen)) == NULL) {
645                 exit(2); /* out of memory - BAIL */
646             }
647             addpattern(inbuf);
648             bufp = inbuf;
649             bufused = 0;
650 #endif /* ! codereview */
651         }
652         free(inbuf);
653         free(prntbuf);
654         free(conbuf);
655         (void) fclose(fp);
656     }
657 }
658
659 /*
660 * Add a string to the pattern list.
661 */
662 static void
663 addpattern(char *s)
664 {
665     PATTERN *pp;
666     char *wordbuf;
667     char *np;
668 #endif /* ! codereview */
669
670     for (; ; ) {
671         np = strchr(s, '\n');
672         if (np != NULL)
673             *np = '\0';
674         if ((pp = malloc(sizeof(PATTERN))) == NULL) {
675             (void) fprintf(stderr, gettext(
676                 "%s: out of memory\n"),
677                 cmdname);
678             exit(2);
679         }
680         if (file == NULL) {
681             temp = 0;
682             file = STDIN_FILENAME;
683         } else if ((temp = open(file + base, O_RDONLY)) == -1) {
684             if (!sflag)
685                 errmsg("grep: can't open %s\n", file);
686             nsucc = 2;
687             return;
688         }
689         if (wflag) {

```

```

673         /*
674          * Solaris wflag support: Add '<' '>' to pattern to
675          * select it as a word. Doesn't make sense with -F
676          * but we're Libertarian.
677          */
678         size_t slen, wordlen;
679 #endif /* ! codereview */
680
681         slen = strlen(s);
682         wordlen = slen + 5; /* '\\\ ' < ' > ' '\0' */
683         if ((wordbuf = malloc(wordlen)) == NULL) {
684             (void) fprintf(stderr,
685                 gettext("%s: out of memory\n"),
686                 cmdname);
687             exit(2);
688         }
689         (void) strcpy(wordbuf, "\\<");
690         (void) strcpy(wordbuf + 2, s);
691         (void) strcpy(wordbuf + 2 + slen, "\\>");
692     } else {
693         if ((wordbuf = strdup(s)) == NULL) {
694             (void) fprintf(stderr,
695                 gettext("%s: out of memory\n"),
696                 cmdname);
697             exit(2);
698         }
699         /* read in first block of bytes */
700         if ((count = read(temp, prntbuf, GBUFSIZ)) <= 0) {
701             (void) close(temp);
702
703             if (cflag && !qflag) {
704                 if (Hflag || (nfile > 1 && !hflag))
705                     (void) fprintf(stdout, "%s:", file);
706                 if (!rflag)
707                     (void) fprintf(stdout, "%lld\n", tln);
708             }
709             return;
710         }
711         pp->pattern = wordbuf;
712         pp->next = patterns;
713         patterns = pp;
714         if (np == NULL)
715             break;
716         s = np + 1;
717     }
718 #endif /* ! codereview */
719
720 /*
721 * Fix patterns.
722 * Must do after all arguments read, in case later -i option.
723 */
724 static void
725 fixpatterns(void)
726 {
727     PATTERN *pp;
728     int rv, fix_pattern, npatterns;
729     lnum = 0;
730     ptr = prntbuf;
731     for (; ; ) {
732         /* look for next newline */
733         if ((ptrend = memchr(ptr + offset, '\n', count)) == NULL) {
734             offset += count;
735         }
736     }
737
738     /*
739     * As REG_ANCHOR flag is not supported in the current Solaris,
740     * need to fix the specified pattern if -x is specified with

```

```

723     * grep or egrep
724     */
725     fix_pattern = !Fflag && xflag;

727     for (npatterns = 0, pp = patterns; pp != NULL; pp = pp->next) {
728         npatterns++;
729         if (fix_pattern) {
730             char *cp, *cq;
731             size_t plen, nplen;

733             plen = strlen(pp->pattern);
734             /* '^' pattern '$' */
735             nplen = 1 + plen + 1 + 1;
736             if ((cp = malloc(nplen)) == NULL) {
737                 (void) fprintf(stderr,
738                     gettext("%s: out of memory\n"),
739                     cmdname);
740                 exit(2);
741             }
742             cq = cp;
743             *cq++ = '^';
744             cq = strcpy(cq, pp->pattern) + plen;
745             *cq++ = '$';
746             *cq = '\0';
747             free(pp->pattern);
748             pp->pattern = cp;
749             if (ptr > prntbuf) {
750                 (void) memmove(prntbuf, ptr, offset);
751                 ptr = prntbuf;
752             }
753         }

751     if (Fflag) {
752         if (use_wchar) {
753             /*
754              * Fflag && mblocale && iflag
755              * Fflag && mblocale && !xflag
756              */
757             size_t n;
758             n = strlen(pp->pattern) + 1;
759             if ((pp->wpattern =
760                 malloc(sizeof(wchar_t) * n)) == NULL) {
761                 (void) fprintf(stderr,
762                     gettext("%s: out of memory\n"),
763                     cmdname);
764                 exit(2);
765             }
766             if (mbstowcs(pp->wpattern, pp->pattern, n) ==
767                 (size_t)-1) {
768                 (void) fprintf(stderr,
769                     gettext("%s: failed to convert "
770                         "\"%s\" to wide-characters\n"),
771                         cmdname, pp->pattern);
772                 exit(2);
773             }
774             if (iflag) {
775                 wchar_t *wp;
776                 for (wp = pp->wpattern; *wp != L'\0';
777                     wp++) {
778                     *wp = towlower((wint_t)*wp);
779                 }
780             }
781             free(pp->pattern);
782         } else {
783 #endif /* ! codereview */
784             /*

```

```

785             * Fflag && mblocale && !iflag
786             * Fflag && !mblocale && iflag
787             * Fflag && !mblocale && !iflag
788             * re-allocate a larger buffer if this one is full
789             */
790             if (iflag) {
791                 unsigned char *cp;
792                 for (cp = (unsigned char *)pp->pattern;
793                     *cp != '\0'; cp++) {
794                     *cp = tolower(*cp);
795                 }
796             }
797             if (offset + GBUFSIZ > fw_lPrntBufLen) {
798                 /*
799                  * fgrep: No regular expressions.
800                  * allocate a new buffer and preserve the
801                  * contents...
802                 */
803                 continue;
804             }
805             /*
806             * For non-fgrep, compile the regular expression,
807             * give an informative error message, and exit if
808             * it didn't compile.
809             */
810             if ((rv = regcomp(&pp->re, pp->pattern, regflags)) != 0) {
811                 (void) regerror(rv, &pp->re, errstr, sizeof(errstr));
812                 (void) fprintf(stderr,
813                     gettext("%s: RE error in %s: %s\n"),
814                     cmdname, pp->pattern, errstr);
815                 fw_lPrntBufLen += GBUFSIZ;
816                 if ((prntbuf = realloc(prntbuf,
817                     fw_lPrntBufLen)) == NULL)
818                     exit(2);
819             }
820             free(pp->pattern);
821 #endif /* ! codereview */
822         }
823     }
824     /*
825     * Decide if we are able to run the Boyer-Moore-Gosper algorithm.
826     * Use the Boyer-Moore-Gosper algorithm if:
827     * - fgrep (Fflag)
828     * - singlebyte locale (!mblocale)
829     * - no ignoring case (!iflag)
830     * - no printing line numbers (!nflag)
831     * - no negating the output (nvflag)
832     * - only one pattern (npatterns == 1)
833     * - non zero length pattern (strlen(patterns->pattern) != 0)
834     * - no context required (conflag == 0)
835     *
836     * It's guaranteed patterns->pattern is still alive
837     * when Fflag && !mblocale.
838     *
839     * set up a bigger linebuffer (this is only used
840     * for case insensitive operations). Contents do
841     * not have to be preserved.
842     */
843     use_bmg = Fflag && !mblocale && !iflag && !nflag && nvflag &&
844         (npatterns == 1) && (strlen(patterns->pattern) != 0) &&
845         conflag == 0;
846 }

839 /*
840 * Search a newline from the beginning of the string

```

```

841 */
842 static char *
843 find_nl(const char *ptr, size_t len)
844 {
845     while (len-- != 0) {
846         if (*ptr++ == '\n') {
847             return ((char *)--ptr);
848         }
849     }
850     return (NULL);
851 }
852
853 /*
854 * Search a newline from the end of the string
855 */
856 static char *
857 rfind_nl(const char *ptr, size_t len)
858 {
859     const char *uptr = ptr + len;
860     while (len-- > 0) {
861         if (*--uptr == '\n') {
862             return ((char *)uptr);
863         }
864     }
865     return (NULL);
866 }
867
868 /*
869 * Duplicate the specified string converting each character
870 * into a lower case.
871 */
872 static char *
873 istrdup(const char *s1)
874 {
875     static size_t ibuflen = 0;
876     static char *ibuf = NULL;
877     size_t slen;
878     char *p;
879
880     slen = strlen(s1);
881     if (slen >= ibuflen) {
882         /* ibuf does not fit to s1 */
883         ibuflen = slen + 1;
884         ibuf = realloc(ibuf, ibuflen);
885         if (ibuf == NULL) {
886             (void) fprintf(stderr,
887                 gettext("%s: out of memory\n"), cmdname);
888             free(linebuf);
889             if ((linebuf = malloc(fw_lPrntBufLen)) == NULL)
890                 exit(2);
891         }
892     }
893     p = ibuf;
894     do {
895         *p++ = tolower(*s1);
896     } while (*s1++ != '\0');
897     return (ibuf);
898 }
899
900 /*
901 * Do grep on a single file.
902 * Return true in any lines matched.
903 */
904 /*
905 * We have two strategies:
906 * The fast one is used when we have a single pattern with
907 * a string known to occur in the pattern. We can then

```

```

905 * do a BMG match on the whole buffer.
906 * This is an order of magnitude faster.
907 * Otherwise we split the buffer into lines,
908 * and check for a match on each line.
909 */
910 static int
911 grep(int fd, const char *fn)
912 {
913     PATTERN *pp;
914     off_t data_len; /* length of the data chunk */
915     off_t line_len; /* length of the current line */
916     off_t line_offset; /* current line's offset from the beginning */
917     off_t blkoffset; /* line_offset but context-compatible */
918     long long lineno, linenum;
919     long long matches = 0; /* Number of matching lines */
920     long long conacct = 0, conbcnt = 0; /* context line count */
921     int newline; /* 0 if the last line of file has no newline */
922     char *ptr, *ptrend, *prntptr, *prntptrend;
923     char *nextptr = NULL, *nextend = NULL;
924     char *comptr = NULL, *comptrend = NULL;
925     char *matchptr = NULL;
926     int conaprnt = 0, conbprnt = 0, lastmatch = 0;
927     boolean_t nearmatch; /* w/in N+1 of last match */
928     boolean_t havematch = B_FALSE; /* have a match in context */
929     size_t prntlen;
930
931     if (patterns == NULL)
932         return (0); /* no patterns to match -- just return */
933
934     pp = patterns;
935
936     if (use_bmg) {
937         bmgcomp(pp->pattern, strlen(pp->pattern));
938     }
939
940     if (use_wchar && outline == NULL) {
941         outbuflen = BUFSIZE + 1;
942         outline = malloc(sizeof(wchar_t) * outbuflen);
943         if (outline == NULL) {
944             (void) fprintf(stderr, gettext("%s: out of memory\n"),
945                 cmdname);
946             exit(2);
947         }
948     }
949
950     if (prntbuf == NULL) {
951         prntbuflen = BUFSIZE;
952         if ((prntbuf = malloc(prntbuflen + 1)) == NULL) {
953             (void) fprintf(stderr, gettext("%s: out of memory\n"),
954                 cmdname);
955             exit(2);
956         }
957     }
958
959     if (conflag != 0 && (conbuf == NULL)) {
960         conbuflen = BUFSIZE;
961         if ((conbuf = malloc(BUFSIZE+1)) == NULL) {
962             (void) fprintf(stderr, gettext("%s: out of memory\n"),
963                 cmdname);
964             exit(2);
965         }
966     }
967
968     nearmatch = (conmatches != 0);
969     blkoffset = line_offset = 0;
970     lineno = 0;

```



```

971     linenum = 1;
972     newlinep = 1;
973     data_len = 0;
974     for ( ; ; ) {
975         long    count;
976         off_t   offset = 0;
977         char    separate;
978         boolean_t    last_ctx = B_FALSE, eof = B_FALSE;
979 #endif /* ! codereview */

981         if (data_len == 0) {
982             /*
983              * If no data in the buffer, reset ptr
984              */
985 #endif /* ! codereview */
986             ptr = prntbuf;
987             if (conflag != 0 && conptr == NULL) {
988                 conptr = conbuf;
989                 conptrend = conptr - 1;
990             }
991         }
992         if (ptr == prntbuf) {
993             /*
994              * The current data chunk starts from prntbuf.
995              * This means either the buffer has no data
996              * or the buffer has no newline.
997              * So, read more data from input.
998              */
999             count = read(fd, ptr + data_len, prntbuflen - data_len);
1000             if (count < 0) {
1001                 /* read error */
1002                 if (cflag) {
1003                     if (outfn && !rflag) {
1004                         (void) fprintf(stdout,
1005                                     "%s:", fn);
1006                     }
1007                     if (!qflag && !rflag) {
1008                         (void) fprintf(stdout, "%lld\n",
1009                                     matches);
1010                     }
1011                 }
1012                 return (0);
1013             } else if (count == 0) {
1014                 /* no new data */
1015                 eof = B_TRUE;
1016             }
1017 #endif /* ! codereview */

1019             if (data_len == 0) {
1020                 /* end of file already reached */
1021                 if (conflag != 0) {
1022                     if (conptrend >= conptr)
1023                         *conptrend = '\n';
1024                     last_ctx = B_TRUE;
1025                     goto L_next_line;
1026                 } else {
1027                     goto out;
1028                 }
1029             }
1030             /* last line of file has no newline */
1031             ptrend = ptr + data_len;
1032             newlinep = 0;
1033             goto L_start_process;
1034         }
1035         offset = data_len;
1036         data_len += count;

```

```

1037     }
1039     /*
1040     * Look for newline in the chunk
1041     * between ptr + offset and ptr + data_len - offset.
1042     */
1043     ptrend = find_nl(ptr + offset, data_len - offset);
1044     if (ptrend == NULL) {
1045         /* no newline found in this chunk */
1046         if (ptr > prntbuf) {
1047             /*
1048              * Move remaining data to the beginning
1049              * of the buffer.
1050              * Remaining data lie from ptr for
1051              * data_len bytes.
1052              */
1053             (void) memmove(prntbuf, ptr, data_len);
1054         }
1055         if (data_len == prntbuflen) {
1056             /*
1057              * Not enough room in the buffer
1058              */
1059             if (prntbuflen > SIZE_MAX - BUFSIZE) {
1060                 (void) fprintf(stderr,
1061                             gettext("%s: buflen would"
1062                                     " overflow\n"),
1063                             cmdname);
1064                 exit(2);
1065             }
1066             prntbuflen += BUFSIZE;
1067             prntbuf = realloc(prntbuf, prntbuflen + 1);
1068             if (prntbuf == NULL) {
1069                 (void) fprintf(stderr,
1070                             gettext("%s: out of memory\n"),
1071                             cmdname);
1072                 exit(2);
1073             }
1074             ptr = prntbuf;
1075             /* read the next input */
1076             p = prntbuf + offset;
1077             if ((count = read(temp, p, GBUFSIZ)) > 0)
1078                 continue;
1079         }
1080     L_start_process:

1082     /*
1083     * Beginning of the chunk:      ptr
1084     * End of the chunk:           ptr + data_len
1085     * Beginning of the line:      ptr
1086     * End of the line:            ptrend
1087     *
1088     * conptr:      Beginning of the context.
1089     * conptrend:   If context is empty, conptr - 1 (invalid memory).
1090     *              Otherwise, Last newline in the context.
1091     */
1092 #endif /* ! codereview */

1094     if (use_bmg) {
1095         /*
1096         * Use Boyer-Moore-Gosper algorithm to find out if
1097         * this chunk (not this line) contains the specified
1098         * pattern. If not, restart from the last line
1099         * of this chunk.
1100         */

```

```

1101     char    *bline;
1102     bline = bmgexec(ptr, ptr + data_len);
1103     if (bline == NULL) {
1104         /*
1105          * No pattern found in this chunk.
1106          * Need to find the last line
1107          * in this chunk.
1108          */
1109         ptrend = rfind_nl(ptr, data_len);
1110     }
1111     if (offset == 0)
1112         /* end of file already reached */
1113         break;
1114
1115     /*
1116     * When this chunk does not contain newline,
1117     * ptrend becomes NULL, which should happen
1118     * when the last line of file does not end
1119     * with a newline. At such a point,
1120     * newlinep should have been set to 0.
1121     * Therefore, just after jumping to
1122     * L_skip_line, the main for-loop quits,
1123     * and the line_len value won't be
1124     * used.
1125     */
1126     line_len = ptrend - ptr;
1127     goto L_skip_line;
1128 }
1129 if (bline > ptrend) {
1130     /*
1131     * Pattern found not in the first line
1132     * of this chunk.
1133     * Discard the first line.
1134     */
1135     line_len = ptrend - ptr;
1136     goto L_skip_line;
1137 }
1138 /* last line of file has no newline */
1139 ptrend = ptr + offset;
1140 nflag = 0;
1141 } else {
1142     next_ptr = ptrend + 1;
1143     next_count = offset + count - (next_ptr - ptr);
1144     nflag = 1;
1145 }
1146 /*
1147 * Pattern found in the first line of this chunk.
1148 * Using this result.
1149 */
1150 lnum++;
1151 *ptrend = '\0';
1152 line_len = ptrend - ptr;
1153 #endif /* ! codereview */
1154
1155 if (iflag) {
1156     /*
1157     * before jumping to L_next_line,
1158     * need to handle xflag if specified
1159     */
1160     if (xflag && (line_len != bmglen ||
1161         strcmp(bmgpat, ptr) != 0)) {
1162         /* didn't match */
1163         pp = NULL;
1164     } else {
1165         pp = patterns; /* to make it happen */
1166     }
1167     goto L_next_line;
1168 }

```

```

1155     lineno++;
1156     /*
1157     * Line starts from ptr and ends at ptrend.
1158     * line_len will be the length of the line.
1159     */
1160     /* Make a lower case copy of the record
1161     */
1162     *ptrend = '\0';
1163     line_len = ptrend - ptr;
1164
1165     p = ptr;
1166     for (lbuf = linebuf; p < ptrend; )
1167         *lbuf++ = (char)tolower((int)
1168             (unsigned char)*p++);
1169     *lbuf = '\0';
1170     lbuf = linebuf;
1171 } else
1172     /*
1173     * From now, the process will be performed based
1174     * on the line from ptr to ptrend.
1175     * Use record as is
1176     */
1177     if (use_wchar) {
1178         size_t len;
1179         lbuf = ptr;
1180     }
1181
1182     if (line_len >= outbuflen) {
1183         outbuflen = line_len + 1;
1184         outline = realloc(outline,
1185             sizeof(wchar_t) * outbuflen);
1186         if (outline == NULL) {
1187             (void) fprintf(stderr,
1188                 gettext("%s: out of memory\n"),
1189                 cmdname);
1190             exit(2);
1191         }
1192     }
1193
1194     len = mbstowcs(outline, ptr, line_len);
1195     if (len == (size_t)-1) {
1196         (void) fprintf(stderr,
1197             gettext("%s: input file \"%s\": line %lld: invalid multibyte character\n"),
1198             cmdname, fn, lineno);
1199         /* never match a line with invalid sequence */
1200         goto L_skip_line;
1201     }
1202     outline[len] = L'\0';
1203
1204     if (iflag) {
1205         wchar_t *cp;
1206         for (cp = outline; *cp != '\0'; cp++) {
1207             *cp = towlower((wint_t)*cp);
1208         }
1209     }
1210
1211     if (xflag) {
1212         for (pp = patterns; pp; pp = pp->next) {
1213             if (outline[0] == pp->wpattern[0] &&
1214                 wcsncmp(outline,
1215                     pp->wpattern, len) == 0) {
1216                 /* matched */
1217                 break;
1218             }
1219         }
1220     } else {
1221         for (pp = patterns; pp; pp = pp->next) {
1222             if (wcsncmp(outline, pp->wpattern,

```

```

1211         != NULL) {
1212             /* matched */
1213             /* lflag only once */
1214             if ((step(lbuf, expbuf) ^ vflag) && succeed(file) == 1)
1215                 break;
1216         }
1217     } else if (Fflag) {
1218         /* fgrep in byte-oriented handling */
1219         char *fptr;
1220         if (iflag) {
1221             fptr = istrdup(ptr);
1222         } else {
1223             fptr = ptr;
1224         }
1225         if (xflag) {
1226             /* fgrep -x */
1227             for (pp = patterns; pp; pp = pp->next) {
1228                 if (fptr[0] == pp->pattern[0] &&
1229                     strcmp(fptr, pp->pattern) == 0) {
1230                     /* matched */
1231                     break;
1232                 }
1233             }
1234         } else {
1235             for (pp = patterns; pp; pp = pp->next) {
1236                 if (strstr(fptr, pp->pattern) != NULL) {
1237                     /* matched */
1238                     break;
1239                 }
1240             }
1241         }
1242     } else {
1243         /* grep or egrep */
1244         for (pp = patterns; pp; pp = pp->next) {
1245             int rv;
1246             #endif /* ! codereview */
1247
1248             rv = regexec(&pp->re, ptr, 0, NULL, 0);
1249             if (rv == REG_OK) {
1250                 /* matched */
1251                 if (!nlflag)
1252                     break;
1253             #endif /* ! codereview */
1254
1255             switch (rv) {
1256             case REG_NOMATCH:
1257                 break;
1258             case REG_ECHAR:
1259                 (void) fprintf(stderr, gettext(
1260 "%s: input file \"%s\": line %lld: invalid multibyte character\n",
1261 cmdname, fn, lineno);
1262                 break;
1263             default:
1264                 (void) regerror(rv, &pp->re, errstr,
1265 sizeof(errstr));
1266                 (void) fprintf(stderr, gettext(
1267 "%s: input file \"%s\": line %lld: %s\n",
1268 cmdname, fn, lineno, errstr);
1269                 exit(2);
1270             }
1271             ptr = next_ptr;
1272             count = next_count;
1273             offset = 0;

```

```

1271     }
1272 }
1273
1274 /*
1275 * Context is set up as follows:
1276 * For a 'Before' context, we maintain a set of pointers
1277 * containing 'N' lines of context. If the current number of
1278 * lines contained is greater than N, and N isn't a match, the
1279 * start pointer is moved forward to the next newline.
1280 *
1281 * If we ever find a match, we print out immediately.
1282 * 'nearmatch' tells us if we're within N+1 lines of the last
1283 * match; if we are, and we find another match, we don't
1284 * separate the matches. 'nearmatch' becomes false when
1285 * a line gets rotated out of the context.
1286 *
1287 * For an 'After' context, we simply wait until we've found a
1288 * match, then create a context N+1 lines big. If we don't find
1289 * a match within the context, we print out the current context.
1290 * Otherwise, we save a reference to the new matching line,
1291 * print out the other context, and reset our context pointers
1292 * to the new matching line.
1293 *
1294 * 'nearmatch' becomes false when we find a non-matching line
1295 * that isn't a part of any context.
1296 *
1297 * A full-context is implemented as a combination of the
1298 * 'Before' and 'After' context logic. Before we find a match,
1299 * we follow the Before logic. When we find a match, we
1300 * follow the After logic. 'nearmatch' is handled by the Before
1301 * logic.
1302 */
1303 (void) close(temp);
1304
1305 if (conflag == 0)
1306     goto L_next_line;
1307
1308 /* Do we have room to add this line to the context buffer? */
1309 if ((line_len + 1) > (conbuflen -
1310 (conptrend >= conptr) ? conptrend - conbuf : 0)) {
1311     char *oldconbuf = conbuf;
1312     char *oldconptr = conptr;
1313     long tmp = matchptr - conptr;
1314
1315     if (conbuflen > SIZE_MAX - BUFSIZE) {
1316         (void) fprintf(stderr,
1317             gettext("%s: buflen would overflow\n"),
1318             cmdname);
1319         exit(2);
1320     }
1321     if (cflag && !qflag) {
1322         if (Hflag || (!hflag && ((nfile > 1) ||
1323 (rflag && outfn))))
1324             (void) fprintf(stdout, "%s:", file);
1325             (void) fprintf(stdout, "%lld\n", tin);
1326     }
1327 }
1328
1329 conbuflen += BUFSIZE;
1330 conbuf = realloc(conbuf, conbuflen + 1);
1331 if (conbuf == NULL) {
1332     (void) fprintf(stderr,
1333         gettext("%s: out of memory\n"),
1334         cmdname);
1335     exit(2);
1336 }
1337
1338 static int
1339 405

```

```

406 succeed(const char *f)
407 {
408     int nchars;
409     nsucc = (nsucc == 2) ? 2 : 1;

1330     conptr = conbuf + (conptr - oldconbuf);
1331     conptrend = conptr + (conptrend - oldconptr);
1332     if (matchptr)
1333         matchptr = conptr + tmp;
1334 }
1335 (void) memcpy(conptrend + 1, ptr, line_len);
1336 conptrend += line_len + 1;
1337 *conptrend = '\n';

1339     if (nvflag == (pp != NULL)) {
1340         /* matched */
1341         if (havematch) {
1342             if ((conflag & AFTER) != 0) {
1343                 conaprint = 1;
1344                 nextend = conptrend;
1345                 conptrend = conptr + lastmatch;
1346                 nextptr = conptrend + 1;
1347                 *nextend = '\n';
1348             }
1349             } else {
1350                 if (conflag == AFTER) {
1351                     conptr = conptrend - (line_len);
1352                     linenum = lineno;
1353                 }
1354                 blkoffset = line_offset -
1355                     (conptrend - conptr - line_len);
1356             if (qflag) {
1357                 /* no need to continue */
1358                 return (1);
1359             }

1358             if (conflag == BEFORE)
1359                 conbprint = 1;

1361             lastmatch = conptrend - conptr;
1362             havematch = B_TRUE;
1363             goto L_next_line;
1364         if (cflag) {
1365             tln++;
1366             return (0);
1367         }

1366         if (!havematch) {
1367             if ((conflag & BEFORE) != 0) {
1368                 if (conbcnt >= conblen) {
1369                     char *tmp = conptr;
1370                     conptr = find_nl(conptr,
1371                                     conptrend - conptr) + 1;
1372                     if (bflag)
1373                         blkoffset += conptr - tmp;
1374                     linenum++;
1375                     nearmatch = B_TRUE;
1376                 } else {
1377                     conbcnt++;
1378                 }
1379             }
1380             if (conflag == AFTER)
1381                 nearmatch = B_TRUE;
1382         } else {
1383             if (++conacnt >= conalen && !conaprint && conalen)
1384                 conaprint = 1;

```

```

1385     else
1386         lastmatch = conptrend - conptr;
1387     if (lflag) {
1388         (void) fprintf(stdout, "%s\n", f);
1389         return (1);
1390     }

1389 L_next_line:
1390     /*
1391     * Here, if pp points to non-NULL, something has been matched
1392     * to the pattern.
1393     */
1394     if (!last_ctx && nvflag == (pp != NULL)) {
1395         matches++;
1396         if (!nextend)
1397             matchptr = (conflag != 0) ? conptrend : ptrend;
1398         if (Hflag || (!Hflag && (nfile > 1 || (rflag && outf))) {
1399             /* print filename */
1400             (void) fprintf(stdout, "%s:", f);
1401         }

1400     /*
1401     * Set up some print context so that we can treat
1402     * single-line matches as a zero-N context.
1403     * Apply CLI flags to each line of the context.
1404     */
1405     * For context, we only print if we both have a match and are
1406     * either at the end of the data stream, or we've previously
1407     * declared that we want to print for a particular context.
1408     */
1409     if (havematch && (eof || conaprint || conbprint)) {

1411         /*
1412         * We'd normally do this earlier, but we had to
1413         * escape early because we reached the end of the data.
1414         */
1415         if (eof && nextptr)
1416             conptrend = nextend;

1417     if (bflag)
1418         /* print block number */
1419         (void) fprintf(stdout, "%lld:", (offset_t)
1420             ((lseek(tmp, (off_t)0, SEEK_CUR) - 1) / BLKSIZE));

1421     if (nflag)
1422         /* print line number */
1423         (void) fprintf(stdout, "%lld:", lnum);

1424     prntlen = conptrend - conptr + 1;
1425     prntptr = conptr;
1426     if (conmatches++ && nearmatch && !cflag)
1427         (void) fwrite("--\n", 1, 3, stdout);
1428     } else if (conflag == 0 && nvflag == (pp != NULL)) {
1429     if (nlflag) {
1430         /* newline at end of line */
1431         *ptrend = '\n';
1432         prntlen = line_len + 1;
1433         prntptr = ptr;
1434         linenum = lineno;
1435         blkoffset = line_offset;
1436     } else if (eof) {
1437         /* No match and no more data */
1438         goto out;
1439     }
1440     nchars = ptrend - ptr + 1;
1441     } else {
1442         /* No match, or we're not done building context */
1443         goto L_skip_line;

```

```

445     /* don't write sentinel \0 */
446     nchars = ptrend - ptr;
1434 }

1436 prntptrend = prntptr - 1;
1437 while ((prntptrend = find_nl(prntptrend + 1,
1438     prntlen)) != NULL) {

1440     /*
1441     * GNU grep uses '-' for context lines and ':' for
1442     * matching lines, so replicate that here.
1443     */
1444     if (prntptrend == matchptr) {
1445         if (eof && nextptr) {
1446             matchptr = nextend;
1447             nextptr = NULL;
1448         } else {
1449             matchptr = NULL;
1450         }
1451         separate = ':';
1452     } else {
1453         separate = '-';
1454     }

1456     /*
1457     * Handle q, l, and c flags.
1458     */
1459     if (qflag) {
1460         /* no need to continue */
1461         /*
1462         * End of this line is ptrend.
1463         * We have read up to ptr + data_len.
1464         */
1465         off_t pos;
1466         pos = ptr + data_len - (ptrend + 1);
1467         (void) lseek(fd, -pos, SEEK_CUR);
1468         exit(0);
1469     }
1470     if (lflag) {
1471         (void) printf("%s\n", fn);
1472         goto out;
1473     }
1474     if (!cflag) {
1475         if (Hflag || outfn) {
1476             (void) printf("%s%c", fn, separate);
1477         }
1478         if (bflag) {
1479             (void) printf("%lld%c", (offset_t)
1480                 (blkoffset / BSIZE), separate);
1481         }
1482         if (nflag) {
1483             (void) printf("%lld%c", linenum,
1484                 separate);
1485         }
1486         (void) fwrite(prntptr, 1,
1487             prntptrend - prntptr + 1, stdout);
1488     }
1489     if (ferror(stdout)) {
449         (void) fwrite(ptr, 1, nchars, stdout);
1490         return (0);
1491     }
1492     linenum++;
1493     prntlen -= prntptrend - prntptr + 1;
1494     blkoffset += prntptrend - prntptr + 1;
1495     prntptr = prntptrend + 1;
1496 }

```

```

1498     if (eof)
1499         goto out;

1501     /*
1502     * Update context buffer and variables post-print
1503     */
1504     if (conflag != 0) {
1505         conptr = conbuf;
1506         conaprnt = conbprnt = 0;
1507         nearmatch = B_FALSE;
1508         conacnt = conbcnt = 0;

1510         if (nextptr) {
1511             (void) memmove(conbuf, nextptr,
1512                 nextend - nextptr + 1);
1513             blkoffset += nextptr - conptrend - 1;
1514             conptrend = conptr + (nextend - nextptr);
1515             matchptr = conptrend;
1516             linenum = lineno;
1517             lastmatch = conptrend - conptr;
1518             havematch = B_TRUE;
1519         } else {
1520             conptrend = conptr - 1;
1521             conacnt = 0;
1522             lastmatch = 0;
1523             havematch = B_FALSE;
1524         }
1525         nextptr = nextend = NULL;
1526     }

1528 L_skip_line:
1529     if (!newlinep)
1530         break;

1532     data_len -= line_len + 1;
1533     line_offset += line_len + 1;
1534     ptr = ptrend + 1;
1535 }

1537 out:
1538     if (cflag) {
1539         if (Hflag || outfn) {
1540             (void) printf("%s:", fn);
1541         }
1542         if (!qflag) {
1543             (void) printf("%lld\n", matches);
1544         }
1545     }
1546     return (matches != 0);
1547 #endif /* !codereview */
1548 }

1550 /*
1551 * usage message for grep
1552 */
1553 static void
1554 usage(void)
1555 {
1556     if (egrep || fgrep) {
1557         (void) fprintf(stderr, gettext("Usage:\t%s"), cmdname);
1558         (void) fprintf(stderr,
1559             gettext(" [-c|-l|-q] [-r|-R] "
1560                 "[-A num] [-B num] [-C num|-num] "
1561                 "[-bhHinsvx] pattern_list [file ...]\n"));

```

```

1563     (void) fprintf(stderr, "\t%s", cmdname);
1564     (void) fprintf(stderr,
1565         gettext(" [-c|-l|-q] [-r|-R] "
1566             "[-A num] [-B num] [-C num|-num] "
1567             "[-bhHinsvx] [-e pattern_list]... "
1568             "[-f pattern_file]... [file...]\n"));
1569     } else {
1570     (void) fprintf(stderr, gettext("Usage:\t%s"), cmdname);
1571     (void) fprintf(stderr,
1572         gettext(" [-c|-l|-q] [-r|-R] "
1573             "[-A num] [-B num] [-C num|-num] "
1574             "[-bhHinsvx] pattern_list [file ...]\n"));
1575
1576     (void) fprintf(stderr, "\t%s", cmdname);
1577     (void) fprintf(stderr,
1578         gettext(" [-c|-l|-q] [-r|-R] "
1579             "[-A num] [-B num] [-C num|-num] "
1580             "[-bhHinsvx] [-e pattern_list]... "
1581             "[-f pattern_file]... [file...]\n"));
1582
1583     (void) fprintf(stderr, "\t%s", cmdname);
1584     (void) fprintf(stderr,
1585         gettext(" -E [-c|-l|-q] [-r|-R] "
1586             "[-A num] [-B num] [-C num|-num] "
1587             "[-bhHinsvx] pattern_list [file ...]\n"));
1588
1589     (void) fprintf(stderr, "\t%s", cmdname);
1590     (void) fprintf(stderr,
1591         gettext(" -E [-c|-l|-q] [-r|-R] "
1592             "[-A num] [-B num] [-C num|-num] "
1593             "[-bhHinsvx] [-e pattern_list]... "
1594             "[-f pattern_file]... [file...]\n"));
1595
1596     (void) fprintf(stderr, "\t%s", cmdname);
1597     (void) fprintf(stderr,
1598         gettext(" -F [-c|-l|-q] [-r|-R] "
1599             "[-A num] [-B num] [-C num|-num] "
1600             "[-bhHinsvx] pattern_list [file ...]\n"));
1601
1602     (void) fprintf(stderr, "\t%s", cmdname);
1603     (void) fprintf(stderr,
1604         gettext(" -F [-c|-l|-q] "
1605             "[-A num] [-B num] [-C num|-num] "
1606             "[-bhHinsvx] [-e pattern_list]... "
1607             "[-f pattern_file]... [file...]\n"));
1608     }
1609     exit(2);
1610     /* NOTREACHED */
1611 }
1612
1613 /*
1614  * Compile literal pattern into BMG tables
1615  */
1616 #endif /* ! codereview */
1617 static void
1618 bmgcomp(char *pat, int len)
1619     regerr(int err)
1620 {
1621     int i;
1622     int tlen;
1623     unsigned char *uc = (unsigned char *)pat;
1624
1625     bmglen = len;
1626     bmgpat = pat;
1627     for (i = 0; i < M_CSETSIZE; i++) {

```

```

1628         bmgtab[i] = len;
1629     }
1630
1631     len--;
1632     for (tlen = len, i = 0; i <= len; i++, tlen--) {
1633         bmgtab[*uc++] = tlen;
1634         errmsg("grep: RE error %d: ", err);
1635         switch (err) {
1636             case 11:
1637                 err = 0;
1638                 break;
1639             case 16:
1640                 err = 1;
1641                 break;
1642             case 25:
1643                 err = 2;
1644                 break;
1645             case 41:
1646                 err = 3;
1647                 break;
1648             case 42:
1649                 err = 4;
1650                 break;
1651             case 43:
1652                 err = 5;
1653                 break;
1654             case 44:
1655                 err = 6;
1656                 break;
1657             case 45:
1658                 err = 7;
1659                 break;
1660             case 46:
1661                 err = 8;
1662                 break;
1663             case 49:
1664                 err = 9;
1665                 break;
1666             case 50:
1667                 err = 10;
1668                 break;
1669             case 67:
1670                 err = 11;
1671                 break;
1672             default:
1673                 err = 12;
1674                 break;
1675         }
1676     }
1677 }
1678
1679 /*
1680  * BMG search.
1681  */
1682 static char *
1683 bmgexec(char *str, char *end)
1684 {
1685     int t;
1686     char *k, *s, *p;
1687 #endif /* ! codereview */
1688
1689     k = str + bmglen - 1;
1690     if (bmglen == 1) {
1691         return (memchr(str, bmgpat[0], end - str));
1692     }
1693     for (; ; ) {
1694         /* inner loop, should be most optimized */

```

```
1653     while (k < end && (t = bmgtab[(unsigned char)*k] != 0) {
1654         k += t;
1655     }
1656     if (k >= end) {
1657         return (NULL);
1658     }
1659     for (s = k, p = bmgpat + bmglenn - 1; *--s == *--p; ) {
1660         if (p == bmgpat) {
1661             return (s);
1662         }
1663     }
1664     k++;
1665 }
1666 /* NOTREACHED */
495     errmsg("%s\n", gettext(errstr[err]));
496     exit(2);
1667 }
```

unchanged_portion_omitted

new/usr/src/cmd/ldap/ns_ldap/idsconfig.sh

1

```
*****
171049 Thu Dec 28 10:33:34 2017
new/usr/src/cmd/ldap/ns_ldap/idsconfig.sh
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
_____unchanged_portion_omitted_____
```

```
961 #
962 # init(): initializes variables and options
963 #
964 init()
965 {
966     # General variables.
967     PROG='basename $0' # Program name
968     PID=$$             # Program ID
969     VERB='> /dev/null 2>&1' # NULL or ">" /dev/null"
970     ECHO="/bin/echo"    # print message on screen
971     EVAL="eval"        # eval or echo
972     EGREP="/usr/bin/egrep"
973     GREP="/usr/bin/grep"
974     DEBUG=0           # Set Debug OFF
975     BACKUP=no_ldap   # backup suffix
976     HOST=""          # NULL or <hostname>
977     NAWK="/usr/bin/nawk"
978     RM="/usr/bin/rm"
979     WC="/usr/bin/wc"
980     CAT="/usr/bin/cat"
981     SED="/usr/bin/sed"
982     MV="/usr/bin/mv"

984     DOM=""           # Set to NULL
985     # If DNS domain (resolv.conf) exists use that, otherwise use domainname.
986     if [ -f /etc/resolv.conf ]; then
987         DOM='/usr/bin/grep -i -E '^domain|^search' /etc/resolv.conf \
988         | awk '{ print $2 }' | tail -1'
989     fi

991     # If for any reason the DOM did not get set (error'd resolv.conf) set
992     # DOM to the domainname command's output.
993     if [ "$DOM" = "" ]; then
994         DOM='domainname' # domain from domainname command.
995     fi

997     STEP=1
998     INTERACTIVE=1      # 0 = on, 1 = off (For input file mode)
999     DEL_OLD_PROFILE=0 # 0 (default), 1 = delete old profile.

1001     # idsconfig specific variables.
1002     INPUT_FILE=""
1003     OUTPUT_FILE=""
1004     LDAP_ENABLE_SHADOW_UPDATE="FALSE"
1005     NEED_PROXY=0       # 0 = No Proxy, 1 = Create Proxy.
1006     NEED_ADMIN=0      # 0 = No Admin, 1 = Create Admin.
1007     NEED_HOSTACL=0   # 0 = No Host ACL, 1 = Create Host ACL.
1008     EXISTING_PROFILE=0
1009     LDAP_PROXYAGENT=""
1010     LDAP_ADMINDN=""
1011     LDAP_SUFFIX=""
```

new/usr/src/cmd/ldap/ns_ldap/idsconfig.sh

2

```
1012     LDAP_DOMAIN=$DOM # domainname on Server (default value)
1013     GEN_CMD=""
1014     PROXY_ACI_NAME="LDAP_Naming_Services_proxy_password_read"

1016     # LDAP COMMANDS
1017     LDAPSEARCH="/bin/ldapsearch -r"
1018     LDAPMODIFY="/bin/ldapmodify"
1019     LDAPADD="/bin/ldapadd"
1020     LDAPDELETE="/bin/ldapdelete"
1021     LDAP_GEN_PROFILE="/usr/sbin/ldap_gen_profile"

1023     # iDS specific information
1024     IDS_SERVER=""
1025     IDS_PORT=389
1026     NEED_TIME=0
1027     NEED_SIZE=0
1028     NEED_SRVAUTH_PAM=0
1029     NEED_SRVAUTH_KEY=0
1030     NEED_SRVAUTH_CMD=0
1031     IDS_TIMELIMIT=""
1032     IDS_SIZELIMIT=""

1034     # LDAP PROFILE related defaults
1035     LDAP_ROOTDN="cn=Directory Manager" # Provide common default.
1036     LDAP_ROOTPWD="" # NULL passwd as default (i.e. invalid)
1037     LDAP_PROFILE_NAME="default"
1038     LDAP_BASEDN=""
1039     LDAP_SERVER_LIST=""
1040     LDAP_AUTHMETHOD=""
1041     LDAP_FOLLOWREF="FALSE"
1042     NEED_CRYPT=""
1043     LDAP_SEARCH_SCOPE="one"
1044     LDAP_SRV_AUTHMETHOD_PAM=""
1045     LDAP_SRV_AUTHMETHOD_KEY=""
1046     LDAP_SRV_AUTHMETHOD_CMD=""
1047     LDAP_SEARCH_TIME_LIMIT=30
1048     LDAP_PREF_SRVLIST=""
1049     LDAP_PROFILE_TTL=43200
1050     LDAP_CRED_LEVEL="proxy"
1051     LDAP_BIND_LIMIT=10

1053     # Prevent new files from being read by group or others.
1054     umask 077

1056     # Service Search Descriptors
1057     LDAP_SERV_SRCH_DES=""

1059     # Set and create TMPDIR.
1060     TMPDIR="/tmp/idsconfig.${PID}"
1061     if mkdir -m 700 ${TMPDIR}
1062     then
1063         # Cleanup on exit.
1064         trap 'rm -rf ${TMPDIR}; /usr/bin/stty echo; exit' 1 2 3 6 15
1065     else
1066         echo "ERROR: unable to create a safe temporary directory."
1067         exit 1
1068     fi
1069     LDAP_ROOTPWF=${TMPDIR}/rootPWD

1071     # Set the SSD file name after setting TMPDIR.
1072     SSD_FILE=${TMPDIR}/ssd_list

1074     # GSSAPI setup
1075     GSSAPI_ENABLE=0
1076     LDAP_KRB_REALM=""
1077     SCHEMA_UPDATED=0
```



```
1078
1079 export DEBUG VERB ECHO EVAL EGREP GREP STEP TMPDIR
1080 export IDS_SERVER IDS_PORT LDAP_ROOTDN LDAP_ROOTPWD LDAP_SERVER_LIST
1081 export LDAP_BASEDN LDAP_ROOTPWF
1082 export LDAP_DOMAIN LDAP_SUFFIX LDAP_PROXYAGENT LDAP_PROXYAGENT_CRED
1083 export NEED_PROXY
1084 export LDAP_ENABLE_SHADOW_UPDATE LDAP_ADMINDN LDAP_ADMIN_CRED
1085 export NEED_ADMIN NEED_HOSTACL EXISTING_PROFILE
1086 export LDAP_PROFILE_NAME LDAP_BASEDN LDAP_SERVER_LIST
1087 export LDAP_AUTHMETHOD LDAP_FOLLOWREF LDAP_SEARCH_SCOPE LDAP_SEARCH_TIME LIM
1088 export LDAP_PREF_SRVLIST LDAP_PROFILE_TTL LDAP_CRED_LEVEL LDAP_BIND_LIMIT
1089 export NEED_SRVAUTH_PAM NEED_SRVAUTH_KEY NEED_SRVAUTH_CMD
1090 export LDAP_SRV_AUTHMETHOD_PAM LDAP_SRV_AUTHMETHOD_KEY LDAP_SRV_AUTHMETHOD_C
1091 export LDAP_SERV_SRCH_DES SSD_FILE
1092 export GEN_CMD GSSAPI_ENABLE LDAP_KRB_REALM SCHEMA_UPDATED
1093 }
_____unchanged_portion_omitted_____
```

```
new/usr/src/cmd/sgs/test/ld/x64/tls/ie/x64-ie-test.sh
```

1

```
*****
2073 Thu Dec 28 10:33:34 2017
new/usr/src/cmd/sgs/test/ld/x64/tls/ie/x64-ie-test.sh
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utliltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
```

```
1 #!/bin/ksh
2 #
3 # This file and its contents are supplied under the terms of the
4 # Common Development and Distribution License ("CDDL"), version 1.0.
5 # You may only use this file in accordance with the terms of version
6 # 1.0 of the CDDL.
7 #
8 # A full copy of the text of the CDDL should have accompanied this
9 # source. A copy of the CDDL is also available via the Internet at
10 # http://www.illumos.org/license/CDDL.
11 #
12 #
13 # Copyright 2012, Richard Lowe.
14 #
15 function grep_test {
16     name=$1
17     pattern=$2
18 #
19     if /usr/bin/fgrep -q "${pattern}"; then
20         if /usr/xpg4/bin/fgrep -q "${pattern}"; then
21             print -u2 "pass: $name"
22         else
23             print -u2 "FAIL: $name"
24         fi
25     }
26 #
27 # unchanged portion omitted
28 #
29 #
30 #
31 #
32 #
33 #
34 #
35 make PROTO="${1}"
36 #
37 dis_test "addq-->leaq 1" func style1 \
38     'func+0x10: 48 8d 92 f8 ff ff leaq -0x8(%rdx),%rdx'
39 dis_test "addq-->leaq 2" func style1 \
40     'func+0x17: 48 8d b6 f0 ff ff leaq -0x10(%rsi),%rsi'
41 #
42 dis_test "addq-->leaq w/REX 1" func style1-with-r13 \
43     'func+0x10: 48 8d 92 f8 ff ff leaq -0x8(%rdx),%rdx'
44 dis_test "addq-->leaq w/REX 2" func style1-with-r13 \
45     'func+0x17: 4d 8d ad f0 ff ff leaq -0x10(%r13),%r13'
46 #
47 dis_test "addq-->addq for SIB 1" func style1-with-r12 \
48     'func+0x10: 48 8d 92 f8 ff ff leaq -0x8(%rdx),%rdx'
49 dis_test "addq-->addq for SIB 2" func style1-with-r12 \
50     'func+0x17: 49 81 c4 f0 ff ff addq $-0x10,%r12 <0xffffffffffffffff>'
51 #
52 dis_test "movq-->movq" main style2 \
53     'main+0x4: 48 c7 c6 f0 ff ff movq $-0x10,%rsi <0xffffffffffffffff>'
54 #
55 dis_test "movq-->movq w/REX" main style2-with-r13 \
56     'main+0x4: 49 c7 c5 f0 ff ff movq $-0x10,%r13 <0xffffffffffffffff>'
57 #
58 dis_test "movq-->movq incase of SIB" main style2-with-r12 \
59     'main+0x4: 49 c7 c4 f0 ff ff movq $-0x10,%r12 <0xffffffffffffffff>'
60 #
61 make PROTO="${1}" fail 2>&1 | grep_test "bad insn sequence" \
62     'ld: fatal: relocation error: R_AMD64_TPOFF32: file style2-with-badness.o: sy
```

new/usr/src/cmd/tsol/misc/txzonemgr.sh

1

```
*****
42626 Thu Dec 28 10:33:35 2017
new/usr/src/cmd/tsol/misc/txzonemgr.sh
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
```

unchanged portion omitted

```
1412 tearDownZones() {
1413     if [ $DISP -eq 0 ] ; then
1414         if [ $FORCE -eq 0 ] ; then
1415             gettext "OK to destroy all zones [y|N]? "
1416             read ans
1417             printf "%s\n" "$ans" \
1418                 | /usr/bin/grep -Eq "$(locale yesexpr)"
1418                 | /usr/xpg4/bin/grep -Eq "$(locale yesexpr)"
1419             if [ $? -ne 0 ] ; then
1420                 gettext "canceled.\n"
1421                 return 1
1422             fi
1423         fi
1424         gettext "destroying all zones ...\n"
1425     else
1426         killall=$(zenity --question \
1427             --title="$title" \
1428             --width=330 \
1429             --text="$msg_confirmkill")
1430         if [[ $? != 0 ]]; then
1431             return
1432         fi
1433     fi

1435     for p in $(zoneadm list -cp|grep -v global:) ; do
1436         zonename=$(echo "$p"|cut -d : -f2)
1437         if [ $DISP -eq 0 ] ; then
1438             gettext "destroying zone $zonename ...\n"
1439             fi
1440         zoneadm -z $zonename halt 1>/dev/null 2>&1
1441         zoneadm -z $zonename uninstall -F 1>/dev/null 2>&1
1442         delete -rRf
1443     done
1444     zonename=global
1445 }
```

unchanged portion omitted

new/usr/src/lib/libsaveargs/tests/functional/test.sh

1

1043 Thu Dec 28 10:33:35 2017

new/usr/src/lib/libsaveargs/tests/functional/test.sh

8858 /usr/bin/grep doesn't support -E option

4580 /usr/bin/grep can't handle multibyte characters

8929 8868 tests are not delivered with system/test/utiltest

8860 Example in grep(1) is incorrect

Reviewed by: Peter Tribble <peter.tribble@gmail.com>

Reviewed by: Toomas Soome <tsoome@me.com>

Reviewed by: Yuri Pankov <yuripv@gmx.com>

1 #! /usr/bin/ksh

2 #

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4 # Common Development and Distribution License ("CDDL"), version 1.0.

5 # You may only use this file in accordance with the terms of version

6 # 1.0 of the CDDL.

7 #

8 # A full copy of the text of the CDDL should have accompanied this

9 # source. A copy of the CDDL is also available via the Internet at

10 # <http://www.illumos.org/license/CDDL>.

11 #

13 #

14 # Copyright 2012, Richard Lowe.

15 #

17 function tester {

18 prog=\${1}

19 pattern=\${2}

21 ./\$prog >/dev/null &

22 pid=\$!

23 if (/usr/bin/amd64/pstack \$pid | /usr/bin/grep -q "\${pattern}"); then

23 if (/usr/bin/amd64/pstack \$pid | /usr/xpg4/bin/grep -q "\${pattern}"); then

24 echo "pass: \${prog}"

25 else

26 echo "FAIL: \${prog}"

27 fi

28 kill \$pid

29 }

unchanged portion omitted

new/usr/src/lib/libshell/common/tests/sun_solaris_cr_6887363_shell_sometimes_mis 1

4451 Thu Dec 28 10:33:35 2017
new/usr/src/lib/libshell/common/tests/sun_solaris_cr_6887363_shell_sometimes_mis
handles_return_value_of_its_child_process.sh
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>

unchanged_portion_omitted

```
169 # FIXME: we reset the VMALLOC_OPTIONS (and the depreciated VMDEBUG (for now)) va
170 # that the test may run for hours. This may require re-investigation why this ha
171 out="$(unset VMALLOC_OPTIONS VMDEBUG ; cat_test | ${SHELL} 2>&1)" || err_exit "U
172 [[ "${out}" != "" ]] || err_exit "No output from test"

174 # filter output and check it
175 out2="$(/usr/bin/egrep -v '^((read-seq|read-rand|syncread-seq|syncread-seq)[[:sp
176 out2="$(/usr/xpg4/bin/egrep -v '^((read-seq|read-rand|syncread-seq|syncread-seq)
176 [[ "${out2}" == "" ]] || err_exit "Unexpected output '${out2}'"

179 cd "${ocwd}"
180 rmdir "${tmpdir}" || err_exit "Cannot remove temporary directory ${tmpdir}".

182 # tests done
183 exit $((Errors))
```

```

*****
57593 Thu Dec 28 10:33:35 2017
new/usr/src/lib/libshell/misc/shell_styleguide.docbook
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1 <?xml version="1.0"?>
2 <!DOCTYPE article PUBLIC "-//OASIS//DTD DocBook XML V5.0//EN" "http://www.oasis-
3 <!ENTITY tag_bourneonly ' <inlinemediaobject><imageobject><imagedata filere
4 <!ENTITY tag_kshonly ' <inlinemediaobject><imageobject><imagedata filere
5 <!ENTITY tag_ksh88only ' <inlinemediaobject><imageobject><imagedata filere
6 <!ENTITY tag_ksh93only ' <inlinemediaobject><imageobject><imagedata filere
7 <!ENTITY tag_performance ' <inlinemediaobject><imageobject><imagedata filere
8 <!ENTITY tag_il8n ' <inlinemediaobject><imageobject><imagedata filere
9 <!ENTITY tag_ll10n ' <inlinemediaobject><imageobject><imagedata filere
10 ]>
11 <!--

13 CDDL HEADER START

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17 You may not use this file except in compliance with the License.

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28 information: Portions Copyright [yyyy] [name of copyright owner]

30 CDDL HEADER END

32 -->

34 <!--

36 Copyright 2009 Sun Microsystems, Inc. All rights reserved.
37 Use is subject to license terms.

39 -->

41 <!-- tag images were created like this:
42 $ (text="perf" ;
43 pbmtext -nomargins -lspace 0 -builtin fixed "${text}" |
44 pbmtopgm 1 1 |
45 pgmtoppm 1.0,1.0,1.0-0,0,0 /dev/stdin |
46 ppmtogif |
47 giftopnm |
48 pnmtopng >"tag_${text}.png")
49 -->

51 <!-- compile with:
52 xsltproc &minus;&minus;stringparam generate.section.toc.level 0 \
53 &minus;&minus;stringparam toc.max.depth 3 \
54 &minus;&minus;stringparam toc.section.depth 12 \
55 &minus;&minus;xinclude -o opensolaris_shell_styleguide.html /usr/share/

```

```

56 -->

58 <article
59   xmlns:xlink="http://www.w3.org/1999/xlink"
60   xmlns="http://docbook.org/ns/docbook"
61   xml:lang="en">
62   <!-- xmlns:xi="http://www.w3.org/2001/XInclude" -->

64   <info>
65     <title><emphasis>[DRAFT]</emphasis> Bourne/Korn Shell Coding Conventions</ti

67     <!-- subtitle abuse -->
68     <subtitle>
69       This page is currently work-in-progress until it is approved by the OS/Net
70       <email>shell-discuss@opensolaris.org</email>.
71     </subtitle>

74   <authorgroup>
75   <!--
76     <author><personname>David G. Korn</personname><email>dgk@research.att.co
77     <author><personname>Roland Mainz</personname><email>roland.mainz@nruhsig
78     <author><personname>Mike Shapiro</personname><email>mike.shapiro@sun.com
79 -->
80     <author><orgname>OpenSolaris.org</orgname></author>
81   </authorgroup>
82 </info>

84 <section xml:id="intro">
85   <title>Intro</title>
86   <para>This document describes the shell coding style used for all the SMF scri
87   <para>All new SMF shell code should conform to this coding standard, which is
88   <para>When in doubt, think "what would be the C-Style equivalent?" and "What
89 </section><!-- end of intro -->

92 <section xml:id="rules">
93   <title>Rules</title>
94
95
96
97 <section xml:id="general">
98   <title>General</title>

100   <section xml:id="basic_format">
101     <title>Basic Format</title>
102     <para>Similar to <literal>cstyle</literal>, the basic format is that a
103     lines are indented by TABS or eight spaces, and continuation lines (wh
104     in the shell end with "\") are indented by an equivalent number of TAB
105     and then an additional four spaces, e.g.
106 <programlisting>
107 cp foo bar
108 cp some_reallllllllllllllllllly_reallllllllllllllly_long_path \
109   to_another_really_long_path
110 </programlisting>
111   </para>
112   <para>The encoding used for the shell scripts is either <literal>ASCII
113   or <literal>UTF-8</literal>, alternative encodings are only allowed wh
114   application requires this.</para>
115 </section>

118 <section xml:id="commenting">
119   <title>Commenting</title>
120   <para>Shell comments are preceded by the '<literal>#</literal>' charac
121   single-line comments in the right-hand margin. Use an extra '<literal>

```

```

122         above and below the comment in the case of multi-line comments:
123 <programlisting>
124 cp foo bar           # Copy foo to bar

126 #
127 # Modify the permissions on bar. We need to set them to root/sys
128 # in order to match the package prototype.
129 #
130 chown root bar
131 chgrp sys bar
132 </programlisting>
133 </para>
134 </section>

137 <section xml:id="interpreter_magic">
138 <title>Interpreter magic</title>
139 <para>The proper interpreter magic for your shell script should be one
140 <programlisting>
141 #!/bin/sh           Standard Bourne shell script
142 #!/bin/ksh -p       Standard Korn shell 88 script.  You should always write ksh
143                    scripts with -p so that ${ENV} (if set by the user) is not
144                    sourced into your script by the shell.
145 #!/bin/ksh93        Standard Korn shell 93 script (-p is not needed since ${ENV} is
146                    only used for interactive shell sessions).
147 </programlisting>
148 </para>
149 </section>

152 <section xml:id="harden_your_script_against_unexpected_input">
153 <title>Harden the script against unexpected (user) input</title>
154 <para>Harden your script against unexpected (user) input, including
155     command line options, filenames with blanks (or other special
156     characters) in the name, or file input</para>
157 </section>

160 <section xml:id="use_builtin_commands">
161 <title>&tag_kshonly;&tag_performance;Use builtin commands if the shell
162 <para>
163     Use builtin commands if the shell provides them. For example ksh93s+
164     (ksh93, version 's+') delivered with Solaris (as defined by PSARC 2006
165     supports the following builtins:
166     <simplelist type="inline">
167     <member>basename</member>
168     <member>cat</member>
169     <member>chgrp</member>
170     <member>chmod</member>
171     <member>chown</member>
172     <member>cmp</member>
173     <member>comm</member>
174     <member>cp</member>
175     <member>cut</member>
176     <member>date</member>
177     <member>dirname</member>
178     <member>expr</member>
179     <member>fds</member>
180     <member>fmt</member>
181     <member>fold</member>
182     <member>getconf</member>
183     <member>head</member>
184     <member>id</member>
185     <member>join</member>
186     <member>ln</member>
187     <member>logname</member>

```

```

188     <member>mkdir</member>
189     <member>mkfifo</member>
190     <member>mv</member>
191     <member>paste</member>
192     <member>pathchk</member>
193     <member>rev</member>
194     <member>rm</member>
195     <member>rmdir</member>
196     <member>stty</member>
197     <member>tail</member>
198     <member>tee</member>
199     <member>tty</member>
200     <member>uname</member>
201     <member>uniq</member>
202     <member>wc</member>
203     <member>sync</member>
204 </simplelist>
205     Those builtins can be enabled via <literal>$ builtin_name_of_builtin #
206     scripts (note that ksh93 builtins implement exact POSIX behaviour - so
207     commands in Solaris <filename>/usr/bin/</filename> directory implement
208     Add <literal>/usr/xpg6/bin/:</literal>/usr/xpg4/bin/</literal> before
209     <filename>/usr/bin/</filename> in <envar>${PATH}</envar> to test wheth
210     the XPG6/POSIX versions)
211 </para>
212 </section>

215 <section xml:id="use_blocks_not_subshells">
216 <title>&tag_performance;Use blocks and not subshells if possible</titl
217 <para>Use blocks and not subshells if possible, e.g. use
218 <literal>${ print "foo" ; print "bar" ; }</literal> instead of
219 <literal>${ (print "foo" ; print "bar") }</literal> - blocks are
220     faster since they do not require to save the subshell context (ksh93)
221     trigger a shell child process (Bourne shell, bash, ksh88 etc.)
222 </para>
223 </section>

226 <section xml:id="use_long_options_for_set_builtin">
227 <title>&tag_kshonly; use long options for "<literal>set</literal>"</t
228 <para>use long options for "<literal>set</literal>", for example inst
229     use <literal>$ set -o xtrace #</literal> to make the code more readab
230 </section>

233 <section xml:id="use_posix_command_substitutions_syntax">
234 <title>&tag_kshonly; Use <literal>$(...)</literal> instead of <literal>
235 <para>Use <literal>$(...)</literal> instead of <literal>'...</literal>
236     is an obsolete construct in ksh+POSIX sh scripts and <literal>$(...)</
237     requires no escaping rules, allows easy nesting etc.</para>

239 <note><title>&tag_ksh93only; <literal>${ ...}</literal>-style command
240 <para>ksh93 has support for an alternative version of command substitu
241     syntax <literal>${ ...}</literal> which do not run in a subshell.
242 </para></note>
243 </section>

246 <section xml:id="put_command_substitution_result_in_quotes">
247 <title>&tag_kshonly; Always put the result of a <literal>$(...)</litr
248 <literal>$( ...)</literal> command substitution in quotes</title>
249 <para>Always put the result of <literal>$( ... )</literal> or <literal>
250     quotes (e.g. <literal>foo="$( ... )"</literal> or <literal>foo="$( ...
251     there is a very good reason for not doing it</para>
252 </section>

```

```

255 <section xml:id="always_set_path">
256 <title>Scripts should always set their <envar>PATH</envar></title>
257 <para>Scripts should always set their <envar>PATH</envar> to make sure
258 alternative commands by accident (unless the value of <envar>PATH</env
259 and guaranteed to be set by the caller)</para>
260 </section>

263 <section xml:id="make_sure_commands_are_available">
264 <title>Make sure that commands from other packages/applications are re
265 <para>Scripts should make sure that commands in optional packages are
266 there, e.g. add a "precheck" block in scripts to avoid later failure wh
267 doing the main job</para>
268 </section>

271 <section xml:id="check_usage_of_boolean_variables">
272 <title>Check how boolean values are used/implemented in your applicati
273 <para>Check how boolean values are used in your application.</para>
274 <para>For example:
275 <programlisting>
276 mybool=0
277 # do something
278 if [ $mybool -eq 1 ] ; then do_something_1 ; fi
279 </programlisting>
280 could be rewritten like this:
281 <programlisting>
282 mybool=false # (valid values are "true" or "false", pointing
283 # to the builtin equivalents of /bin/true or /bin/false)
284 # do something
285 if ${mybool} ; then do_something_1 ; fi
286 </programlisting>
287 or
288 <programlisting>
289 integer mybool=0 # values are 0 or 1
290 # do something
291 if (( mybool==1 )) ; then do_something_1 ; fi
292 </programlisting>
293 </para>
294 </section>

296 <section xml:id="shell_uses_characters_not_bytes">
297 <title>&tag_i18n;The shell always operates on <emphasis>characters</em
298 <para>Shell scripts operate on characters and <emphasis>not</emphasis>
299 Some locales use multiple bytes (called "multibyte locales") to repres

301 <note><para>ksh93 has support for binary variables which explicitly
302 operate on bytes, not characters. This is the <emphasis>only</emphasis>
303 exception.</para></note>
304 </section>

307 <section xml:id="multibyte_locale_input">
308 <title>&tag_i18n;Multibyte locales and input</title>
309 <para>Think about whether your application has to handle file names or
310 variables in multibyte locales and make sure all commands used in your
311 script can handle such characters (e.g. lots of commands in Solaris's
312 <filename>/usr/bin/</filename> are <emphasis>not</emphasis> able to ha
313 builtin constructs (which are guaranteed to be multibyte-aware) or
314 commands from <filename>/usr/xpg4/bin/</filename> and/or <filename>/us
315 </para>
316 </section>

319 <section xml:id="use_external_filters_only_for_large_datasets">

```

```

320 <title>&tag_performance;Only use external filters like <literal>grep</
321 if you want to process lots of data with them</title>
322 <para>Only use external filters like <literal>grep</literal>/<literal>
323 if a significant amount of data is processed by the filter or if
324 benchmarking shows that the use of builtin commands is significantly s
325 (otherwise the time and resources needed to start the filter are
326 far greater than the amount of data being processed,
327 creating a performance problem).</para>
328 <para>For example:
329 <programlisting>
330 if [ "$(echo "$x" | egrep '.*foo.*')" != "" ] ; then
331 do_something ;
332 done
333 </programlisting>
334 can be re-written using ksh93 builtin constructs, saving several
335 <literal>|fork()+|exec()</literal>'s:
336 <programlisting>
337 if [ "${x}" == ~(E).*foo.* ] ; then
338 do_something ;
339 done
340 </programlisting>
341 </para>
342 </section>

345 <section xml:id="use_dashdash_if_first_arg_is_variable">
346 <title>If the first operand of a command is a variable, use <literal>-
347 <para>If the first operand of a command is a variable, use <literal>--
348 for any command that accepts this as end of argument to
349 avoid problems if the variable expands to a value starting with <liter
350 </para>
351 <note><para>
352 At least
353 <simplelist type="inline">
354 <member>print</member>
355 <member>/usr/bin/fgrep</member>
356 <member>/usr/bin/grep</member>
357 <member>/usr/bin/egrep</member>
355 <member>/usr/bin/fgrep</member><member>/usr/xpg4/bin/fgrep</member>
356 <member>/usr/bin/grep</member> <member>/usr/xpg4/bin/grep</member>
357 <member>/usr/bin/egrep</member><member>/usr/xpg4/bin/egrep</member>
358 </simplelist>
359 support <literal>--</literal> as "end of arguments"-terminator.
360 </para></note>
361 </section>

363 <section xml:id="use_export">
364 <title>&tag_kshonly;&tag_performance;Use <literal>$ export FOOBAR=val
365 <literal>$ FOOBAR=val ; export FOOBAR #</literal></title>
366 <para>Use <literal>$ export FOOBAR=val # instead of $ FOOBAR=val ; exp
367 this is much faster.</para>
368 </section>

371 <section xml:id="use_subshell_around_set_dashdash_usage">
372 <title>Use a subshell (e.g. <literal>$( mycmd ) #</literal>) around p
373 <literal>set -- $(mycmd)</literal> and/or <literal>shift</literal>
374 <para>Use a subshell (e.g. <literal>$( mycmd ) #</literal>) around pl
375 <literal>set -- $(mycmd)</literal> and/or <literal>shift</literal> unl
376 affected is either a local one or if it's guaranteed that this variabl
377 (be careful for loadable functions, e.g. ksh/ksh93's <literal>autoload
378 </para>
379 </section>

382 <section xml:id="be_careful_with_tabs_in_script_code">

```



```
383     <title>Be careful with using TABS in script code, they are not portabl
384     between editors or platforms</title>
385     <para>Be careful with using TABS in script code, they are not portable
386     between editors or platforms.</para>
387     <para>If you use ksh93 use <literal>$\t'</literal> to include TABs in
388     </section>
```

```
391     <section xml:id="centralise_error_exit">
392     <title>If you have multiple points where your application exits with
393     message create a central function for this purpose</title>
394     <para>If you have multiple points where your application exits with a
395     message create a central function for this, e.g.
396     <programlisting>
397     if [ -z "$tmpdir" ] ; then
398         print -u2 "mktemp failed to produce output; aborting."
399         exit 1
400     fi
401     if [ ! -d $tmpdir ] ; then
402         print -u2 "mktemp failed to create a directory; aborting."
403         exit 1
404     fi
405     </programlisting>
406     should be replaced with
407     <programlisting>
408     function fatal_error
409     {
410         print -u2 "${progname}: $"
411         exit 1
412     }
413     unchanged portion omitted
```

```

*****
7557 Thu Dec 28 10:33:36 2017
new/usr/src/man/man1/egrep.1
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1  \" te
2  .\" Copyright 1989 AT&T
3  .\" Copyright (c) 2006, Sun Microsystems, Inc. All Rights Reserved
4  .\" Portions Copyright (c) 1992, X/Open Company Limited All Rights Reserved
5  .\" Sun Microsystems, Inc. gratefully acknowledges The Open Group for permission
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10 .\" You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE or http:
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12 .TH EGREP 1 "Nov 28, 2017"
13 .SH NAME
14 egrep \- search a file for a pattern using full regular expressions
15 .SH SYNOPSIS
16 .LP
17 .nf
18 \fB/usr/bin/egrep\fR [\fB-bcHhlnqsvx\fR] \fB-e\fR \fIpattern_list\fR [\fB-f\fR
19 \fIfile...\fR]
20 .fi
21 .LP
22 .nf
23 \fB/usr/bin/egrep\fR [\fB-bcHhlnqsvx\fR] \fB-f\fR \fIfile\fR [\fIfile...\fR]
24 .fi
25 .LP
26 .nf
27 .nf
28 \fB/usr/bin/egrep\fR [\fB-bcHhlnqsvx\fR] \fIpattern\fR [\fIfile...\fR]
29 .fi
30 .LP
31 .nf
32 .nf
33 \fB/usr/xpg4/bin/egrep\fR [\fB-bcHhlnqsvx\fR] \fB-e\fR \fIpattern_list\fR [\fB-
34 \fIfile...\fR]
35 .fi
36 .LP
37 .nf
38 \fB/usr/bin/egrep\fR [\fB-bcHhlnqsvx\fR] \fIpattern\fR [\fIfile...\fR]
39 \fB/usr/xpg4/bin/egrep\fR [\fB-bcHhlnqsvx\fR] [\fB-e\fR \fIpattern_list\fR] \fB-
40 \fIfile...\fR]
41 .fi
42 .LP
43 .nf
44 \fB/usr/xpg4/bin/egrep\fR [\fB-bcHhlnqsvx\fR] \fIpattern\fR [\fIfile...\fR]
45 .fi
46 .SH DESCRIPTION
47 .sp
48 .LP
49 The \fBgrep\fR (\fIexpression grep\fR) utility searches files for a pattern of

```

```

36 characters and prints all lines that contain that pattern. \fBgrep\fR uses
37 full regular expressions (expressions that have string values that use the full
38 set of alphanumeric and special characters) to match the patterns. It uses a
39 fast deterministic algorithm that sometimes needs exponential space.
40 .sp
41 .LP
42 If no files are specified, \fBgrep\fR assumes standard input. Normally, each
43 line found is copied to the standard output. The file name is printed before
44 each line found if there is more than one input file.
45 .sp
46 .SS "/usr/bin/egrep"
47 .sp
48 .LP
49 The \fBgrep\fR utility accepts the same form of full regular expressions as
50 \fBgrep(1) -E option.
51 The \fB/usr/bin/egrep\fR utility accepts full regular expressions as described
52 on the \fBregexp(5) manual page, except for \fB\(\fR and \fB\)\fR,
53 \fB\|(\fR and \fB\|\)\fR, \fB\|(\fR and \fB\|\)\fR, \fB\|(\fR and \fB\|\)\fR, \fB\|(\fR and \fB\|\)\fR, and
54 \fB\|(\fR, and with the addition of:
55 .RS +4
56 .TP
57 1.
58 A full regular expression followed by \fB+\fR that matches one or more
59 occurrences of the full regular expression.
60 .RE
61 .RS +4
62 .TP
63 2.
64 A full regular expression followed by \fB?\fR that matches 0 or 1
65 occurrences of the full regular expression.
66 .RE
67 .RS +4
68 .TP
69 3.
70 Full regular expressions separated by \fB|\fR or by a \fBNEWLINE\fR that match
71 strings that are matched by any of the expressions.
72 .RE
73 .RS +4
74 .TP
75 4.
76 A full regular expression that can be enclosed in parentheses \fB(\fRfor
77 grouping.
78 .RE
79 .sp
80 .LP
81 Be careful using the characters \fB$\fR, \fB*\fR, \fB[\fR, \fB^\fR, \fB|\fR, \fB\)\fR,
82 \fB\)\fR, and \fB\)\fR in \fIfull regular expression\fR, because they are also
83 meaningful to the shell. It is safest to enclose the entire \fIfull regular
84 expression\fR in single quotes (\fB'\fR\fB'\fR).
85 .sp
86 .LP
87 The order of precedence of operators is \fB[\fR, then \fB*\fR, then \fB\|(\fR, then
88 concatenation, then \fB|\fR and \fBNEWLINE.
89 .SS "/usr/xpg4/bin/egrep"
90 .sp
91 .LP
92 The \fB/usr/xpg4/bin/egrep\fR utility uses the regular expressions described in
93 the \fBEXTENDED REGULAR EXPRESSIONS\fR section of the \fBregexp(5) manual
94 page.
95 .SH OPTIONS
96 .sp
97 .LP
98 The following options are supported:
99 The following options are supported for both \fB/usr/bin/egrep\fR and
100 \fB/usr/xpg4/bin/egrep\fR:
101 .sp
102 .ne 2

```

```

63 .na
64 \fB\b\b\fR\fR
65 .ad
66 .RS 6n
118 .RS 19n
67 Precede each line by the block number on which it was found. This can be useful
68 in locating block numbers by context (first block is 0).
69 .RE

71 .sp
72 .ne 2
73 .na
74 \fB\b\b-c\fR\fR
75 .ad
76 .RS 6n
128 .RS 19n
77 Print only a count of the lines that contain the pattern.
78 .RE

80 .sp
81 .ne 2
82 .na
83 \fB\b\b-e\fR \fIpattern_list\fR\fR
84 .ad
85 .RS 6n
137 .RS 19n
86 Search for a \fIpattern_list\fR (\fIfull regular expression\fR that begins with
87 a \fB\b(mi\fR).
88 .RE

90 .sp
91 .ne 2
92 .na
93 \fB\b\b-f\fR \fIfile\fR\fR
94 .ad
95 .RS 6n
147 .RS 19n
96 Take the list of \fIfull\fR \fIregular\fR \fIexpressions\fR from \fIfile\fR.
97 .RE

99 .sp
100 .ne 2
101 .na
102 \fB\b\b-H\fR\fR
103 .ad
104 .RS 6n
156 .RS 19n
105 Precedes each line by the name of the file containing the matching line.
106 .RE

108 .sp
109 .ne 2
110 .na
111 \fB\b\b-h\fR\fR
112 .ad
113 .RS 6n
165 .RS 19n
114 Suppress printing of filenames when searching multiple files.
115 .RE

117 .sp
118 .ne 2
119 .na
120 \fB\b\b-i\fR\fR
121 .ad
122 .RS 6n

```

```

174 .RS 19n
123 Ignore upper/lower case distinction during comparisons.
124 .RE

126 .sp
127 .ne 2
128 .na
129 \fB\b\b-l\fR\fR
130 .ad
131 .RS 6n
183 .RS 19n
132 Print the names of files with matching lines once, separated by NEWLINES. Does
133 not repeat the names of files when the pattern is found more than once.
134 .RE

136 .sp
137 .ne 2
138 .na
139 \fB\b\b-n\fR\fR
140 .ad
141 .RS 6n
193 .RS 19n
142 Precede each line by its line number in the file (first line is 1).
143 .RE

145 .sp
146 .ne 2
147 .na
148 \fB\b\b-q\fR\fR
149 .ad
150 .RS 6n
202 .RS 19n
151 Quiet. Does not write anything to the standard output, regardless of matching
152 lines. Exits with zero status if an input line is selected.
153 .RE

155 .sp
156 .ne 2
157 .na
158 \fB\b\b-s\fR\fR
159 .ad
160 .RS 6n
212 .RS 19n
161 Legacy equivalent of \fB\b-q\fR.
162 .RE

164 .sp
165 .ne 2
166 .na
167 \fB\b\b-v\fR\fR
168 .ad
169 .RS 6n
221 .RS 19n
170 Print all lines except those that contain the pattern.
171 .RE

225 .SS "/usr/xpg4/bin/egrep"
226 .sp
227 .LP
228 The following options are supported for \fB\b/usr/xpg4/bin/egrep\fR only:
173 .sp
174 .ne 2
175 .na
176 \fB\b\b-x\fR\fR
177 .ad
178 .RS 6n

```

```

179 Consider only input lines that use all characters in the line to match an
180 entire fixed string or regular expression to be matching lines.
181 .RE

183 .SH OPERANDS
240 .sp
184 .LP
185 The following operands are supported:
186 .sp
187 .ne 2
188 .na
189 \fB\fIfile\fR\fR
190 .ad
191 .RS 8n
192 A path name of a file to be searched for the patterns. If no \fIfile\fR
193 operands are specified, the standard input is used.
194 .RE

253 .SS "/usr/bin/egrep"
254 .sp
196 .ne 2
197 .na
198 \fB\fIpattern\fR\fR
199 .ad
200 .RS 8n
259 .RS 11n
260 Specify a pattern to be used during the search for input.
261 .RE

263 .SS "/usr/xpg4/bin/egrep"
264 .sp
265 .ne 2
266 .na
267 \fB\fIpattern\fR\fR
268 .ad
269 .RS 11n
201 Specify one or more patterns to be used during the search for input. This
202 operand is treated as if it were specified as \fB-e\fR\fIpattern_list\fR.
271 operand is treated as if it were specified as \fB-e\fR\fIpattern_list.\fR.
203 .RE

205 .SH USAGE
275 .sp
206 .LP
207 See \fBlargefile\fR(5) for the description of the behavior of \fBgrep\fR when
208 encountering files greater than or equal to 2 Gbyte ( 231 bytes).
209 .SH ENVIRONMENT VARIABLES
280 .sp
210 .LP
211 See \fBenviron\fR(5) for descriptions of the following environment variables
212 that affect the execution of \fBgrep\fR: \fBLC_COLLATE\fR, \fBLC_CTYPE\fR,
213 \fBLC_MESSAGES\fR, and \fBNLSPATH\fR.
214 .SH EXIT STATUS
286 .sp
215 .LP
216 The following exit values are returned:
217 .sp
218 .ne 2
219 .na
220 \fB\fB0\fR\fR
221 .ad
222 .RS 5n
223 If any matches are found.
224 .RE

226 .sp

```

```

227 .ne 2
228 .na
229 \fB\fB1\fR\fR
230 .ad
231 .RS 5n
232 If no matches are found.
233 .RE

235 .sp
236 .ne 2
237 .na
238 \fB\fB2\fR\fR
239 .ad
240 .RS 5n
241 For syntax errors or inaccessible files (even if matches were found).
242 .RE

244 .SH ATTRIBUTES
317 .sp
245 .LP
246 See \fBattributes\fR(5) for descriptions of the following attributes:
320 .SS "/usr/bin/egrep"
321 .sp

323 .sp
324 .TS
325 box;
326 c | c
327 l | l .
328 ATTRIBUTE TYPE ATTRIBUTE VALUE
329 _
330 CSI Not Enabled
331 .TE

333 .SS "/usr/xpg4/bin/egrep"
334 .sp

248 .sp
249 .TS
250 box;
251 c | c
252 l | l .
253 ATTRIBUTE TYPE ATTRIBUTE VALUE
254 _
255 CSI Enabled
256 .TE

258 .SH SEE ALSO
347 .sp
259 .LP
260 \fBfgrep\fR(1), \fBgrep\fR(1), \fBbsed\fR(1), \fBbsh\fR(1), \fBattributes\fR(5),
261 \fBenviron\fR(5), \fBlargefile\fR(5), \fBregex\fR(5), \fBregexp\fR(5),
262 \fBxpg4\fR(5)
263 .SH NOTES
353 .sp
264 .LP
265 Ideally there should be only one \fBgrep\fR command, but there is not a single
266 algorithm that spans a wide enough range of space-time trade-offs.
267 .sp
268 .LP
269 Lines are limited only by the size of the available virtual memory.
360 .SS "/usr/xpg4/bin/egrep"
361 .sp
270 .LP
271 The \fB/usr/bin/egrep\fR utility is identical to \fB/usr/bin/grep\fR
363 The \fB/usr/xpg4/bin/egrep\fR utility is identical to \fB/usr/xpg4/bin/grep\fR

```

272 \fB-E\fR. See \fBgrep\fR(1). Portable applications should use
273 \fB/usr/bin/grep\fR \fB-E\fR.
274 .LP
275 In the past the behavior of \fB/usr/xpg4/bin/egrep\fR and
276 \fB/usr/bin/egrep\fR utilities was different. Now \fB/usr/bin/egrep\fR
277 is replaced by \fB/usr/xpg4/bin/egrep\fR.
365 \fB/usr/xpg4/bin/grep\fR \fB-E\fR.

```

*****
7280 Thu Dec 28 10:33:36 2017
new/usr/src/man/man1/fgrep.1
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
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12 .TH FGREP 1 "Nov 28, 2017"
13 .SH NAME
14 fgrep \- search a file for a fixed-character string
15 .SH SYNOPSIS
16 .LP
17 .nf
18 \fB/usr/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] \fB-e\fR \fIpattern_list\fR [\fB-f\fR
19 \fB/usr/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] \fB-e\fR \fIpattern_list\fR [\fIfile..
20 .fi

21 .LP
22 .nf
23 \fB/usr/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] \fB-f\fR \fIfile\fR [\fIfile...\fR]
24 .fi

26 .LP
27 .nf
28 \fB/usr/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] \fIpattern\fR [\fIfile...\fR]
29 .fi

31 .LP
32 .nf
33 \fB/usr/xpg4/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] \fB-e\fR \fIpattern_list\fR [\fB-
34 \fIfile...\fR]
35 .fi

22 .LP
23 .nf
24 \fB/usr/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] [\fB-e\fR \fIpattern_list\fR] \fB-f\fR
39 \fB/usr/xpg4/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] [\fB-e\fR \fIpattern_list\fR] \fB
25 [\fIfile...\fR]
26 .fi

28 .LP
29 .nf
30 \fB/usr/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] \fIpattern\fR [\fIfile...\fR]
45 \fB/usr/xpg4/bin/fgrep\fR [\fB-bcHhlnqsvx\fR] \fIpattern\fR [\fIfile...\fR]
31 .fi

33 .SH DESCRIPTION
49 .sp
34 .LP
35 The \fBfgrep\fR (fast \fBgrep\fR) utility searches files for a character string

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36 and prints all lines that contain that string. \fBfgrep\fR is different from
37 \fBgrep\fR(1) and from \fBbegrep\fR(1) because it searches for a string, instead
38 of searching for a pattern that matches an expression. \fBfgrep\fR uses a fast
39 and compact algorithm.
40 .sp
41 .LP
42 The characters \fB$\fR, \fB*\fR, \fB[\fR, \fB^\fR, \fB|\fR, \fB(\fR, \fB)\fR, and
43 \fB\efR are interpreted literally by \fBfgrep\fR, that is, \fBfgrep\fR does
44 not recognize full regular expressions as does \fBbegrep\fR. These characters
45 have special meaning to the shell. Therefore, to be safe, enclose the entire
46 \fIstring\fR within single quotes (\fB'\fR).
47 .sp
48 .LP
49 If no files are specified, \fBfgrep\fR assumes standard input. Normally, each
50 line that is found is copied to the standard output. The file name is printed
51 before each line that is found if there is more than one input file.
52 .SH OPTIONS
53 .sp
54 .LP
55 The following options are supported:
56 The following options are supported for both \fB/usr/bin/fgrep\fR and
57 \fB/usr/xpg4/bin/fgrep\fR:
58 .sp
59 .ne 2
60 .na
61 \fB-b\fR \fB-b\fR \fR \fR
62 .ad
63 .RS 6n
64 .RS 19n
65 Precedes each line by the block number on which the line was found. This can be
66 useful in locating block numbers by context. The first block is 0.
67 .RE

65 .sp
66 .ne 2
67 .na
68 \fB-c\fR \fR \fR
69 .ad
70 .RS 6n
71 .RS 19n
72 Prints only a count of the lines that contain the pattern.
73 .RE

74 .sp
75 .ne 2
76 .na
77 \fB-e\fR \fIpattern_list\fR \fR
78 .ad
79 .RS 6n
80 .RS 19n
81 Searches for a \fIstring\fR in \fIpattern-list\fR. This is useful when the
82 \fIstring\fR begins with a \fB(mi\fR&.
83 .RE

84 .sp
85 .ne 2
86 .na
87 \fB-f\fR \fIpattern-file\fR \fR
88 .ad
89 .RS 6n
90 .RS 19n
91 Takes the list of patterns from \fIpattern-file\fR.
92 .RE

93 .sp
94 .ne 2

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95 .na
96 \fB\fB-H\fR\fR
97 .ad
98 .RS 6n
116 .RS 19n
99 Precedes each line by the name of the file containing the matching line.
100 .RE

102 .sp
103 .ne 2
104 .na
105 \fB\fB-h\fR\fR
106 .ad
107 .RS 6n
125 .RS 19n
108 Suppresses printing of files when searching multiple files.
109 .RE

111 .sp
112 .ne 2
113 .na
114 \fB\fB-i\fR\fR
115 .ad
116 .RS 6n
134 .RS 19n
117 Ignores upper/lower case distinction during comparisons.
118 .RE

120 .sp
121 .ne 2
122 .na
123 \fB\fB-l\fR\fR
124 .ad
125 .RS 6n
143 .RS 19n
126 Prints the names of files with matching lines once, separated by new-lines.
127 Does not repeat the names of files when the pattern is found more than once.
128 .RE

130 .sp
131 .ne 2
132 .na
133 \fB\fB-n\fR\fR
134 .ad
135 .RS 6n
153 .RS 19n
136 Precedes each line by its line number in the file. The first line is 1.
137 .RE

139 .sp
140 .ne 2
141 .na
142 \fB\fB-q\fR\fR
143 .ad
144 .RS 6n
162 .RS 19n
145 Quiet. Does not write anything to the standard output, regardless of matching
146 lines. Exits with zero status if an input line is selected.
147 .RE

149 .sp
150 .ne 2
151 .na
152 \fB\fB-s\fR\fR
153 .ad
154 .RS 6n

```

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172 .RS 19n
155 Legacy equivalent of \fB-q\fR.
156 .RE

158 .sp
159 .ne 2
160 .na
161 \fB\fB-v\fR\fR
162 .ad
163 .RS 6n
181 .RS 19n
164 Prints all lines except those that contain the pattern.
165 .RE

167 .sp
168 .ne 2
169 .na
170 \fB\fB-x\fR\fR
171 .ad
172 .RS 6n
190 .RS 19n
173 Prints only lines that are matched entirely.
174 .RE

176 .SH OPERANDS
195 .sp
177 .LP
178 The following operands are supported:
179 .sp
180 .ne 2
181 .na
182 \fB\fIfile\fR
183 .ad
184 .RS 8n
185 Specifies a path name of a file to be searched for the patterns. If no
186 \fIfile\fR operands are specified, the standard input will be used.
187 .RE

208 .SS "/usr/bin/fgrep"
209 .sp
210 .ne 2
211 .na
212 \fB\fIpattern\fR
213 .ad
214 .RS 11n
215 Specifies a pattern to be used during the search for input.
216 .RE

218 .SS "/usr/xpg4/bin/fgrep"
219 .sp
189 .ne 2
190 .na
191 \fB\fIpattern\fR
192 .ad
193 .RS 8n
224 .RS 11n
194 Specifies one or more patterns to be used during the search for input. This
195 operand is treated as if it were specified as \fB-e\fR \fIpattern_list\fR.
196 .RE

198 .SH USAGE
230 .sp
199 .LP
200 See \fBlargefile\fR(5) for the description of the behavior of \fBfgrep\fR when
201 encountering files greater than or equal to 2 Gbyte ( 231 bytes).
202 .SH ENVIRONMENT VARIABLES

```

```

235 .sp
203 .LP
204 See \fBenviron\fR(5) for descriptions of the following environment variables
205 that affect the execution of \fBfgrep\fR: \fBLC_COLLATE\fR, \fBLC_CTYPE\fR,
206 \fBLC_MESSAGES\fR, and \fBNLSPATH\fR.
207 .SH EXIT STATUS
241 .sp
208 .LP
209 The following exit values are returned:
210 .sp
211 .ne 2
212 .na
213 \fB0\fR
214 .ad
215 .RS 5n
216 If any matches are found
217 .RE

219 .sp
220 .ne 2
221 .na
222 \fB1\fR
223 .ad
224 .RS 5n
225 If no matches are found
226 .RE

228 .sp
229 .ne 2
230 .na
231 \fB2\fR
232 .ad
233 .RS 5n
234 For syntax errors or inaccessible files, even if matches were found.
235 .RE

271 .SS "/usr/xpg4/bin/fgrep"
272 .sp

237 .SH ATTRIBUTES
275 .sp
238 .LP
239 See \fBattributes\fR(5) for descriptions of the following attributes:
240 .sp
241 .TS
242 box;
243 c | c
244 l | l .
245 ATTRIBUTE TYPE ATTRIBUTE VALUE
246 -
247 CSI Enabled
248 .TE

250 .SH SEE ALSO
289 .sp
251 .LP
252 \fBbed\fR(1), \fBbegrep\fR(1), \fBgrep\fR(1), \fBsd\fR(1), \fBsh\fR(1),
253 \fBattributes\fR(5), \fBenviron\fR(5), \fBlargefile\fR(5), \fBXPG4\fR(5)
254 .SH NOTES
294 .sp
255 .LP
256 Ideally, there should be only one \fBgrep\fR command, but there is not a single
257 algorithm that spans a wide enough range of space-time tradeoffs.
258 .sp
259 .LP
260 Lines are limited only by the size of the available virtual memory.

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301 .SS "/usr/xpg4/bin/fgrep"
302 .sp
261 .LP
262 The \fB/usr/bin/fgrep\fR utility is identical to \fB/usr/bin/grep\fR
304 The \fB/usr/xpg4/bin/fgrep\fR utility is identical to \fB/usr/xpg4/bin/grep\fR
263 \fB-F\fR (see \fBgrep\fR(1)). Portable applications should use
264 \fB/usr/bin/grep\fR \fB-F\fR.
265 .LP
266 In the past the behavior of \fB/usr/xpg4/bin/fgrep\fR and
267 \fB/usr/bin/fgrep\fR utilities was different. Now \fB/usr/bin/fgrep\fR
268 is replaced by \fB/usr/xpg4/bin/fgrep\fR.
306 \fB/usr/xpg4/bin/grep\fR \fB-F\fR.

```



```

*****
14022 Thu Dec 28 10:33:36 2017
new/usr/src/man/man1/grep.1
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
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13 .TH GREP 1 "Nov 28, 2017"
14 .SH NAME
15 grep \- search a file for a pattern
16 .SH SYNOPSIS
17 .LP
18 .nf
19 \fB/usr/bin/grep\fR [\fB-E\fR | \fB-F\fR] [\fB-c\fR | \fB-l\fR | \fB-q\fR] [\fB-
19 \fB/usr/bin/grep\fR [\fB-c\fR | \fB-l\fR | \fB-q\fR] [\fB-r\fR | \fB-R\fR] [\fB-b
20 \fIlimited-regular-expression\fR [\fIfilename\fR]...
21 .fi
22 .LP
23 .nf
24 .LP
25 \fB/usr/xpg4/bin/grep\fR [\fB-E\fR | \fB-F\fR] [\fB-c\fR | \fB-l\fR | \fB-q\fR]
20 [\fB-bHhinsvwx\fR] [\fB-A\fR \fInumber\fR] [\fB-B\fR \fInumber\fR] [\fB-C\fR
21 [\fIfile\fR]...
22 .fi
23 .LP
24 .nf
25 .LP
26 \fB/usr/bin/grep\fR [\fB-E\fR | \fB-F\fR] [\fB-c\fR | \fB-l\fR | \fB-q\fR] [\fB-
32 \fB/usr/xpg4/bin/grep\fR [\fB-E\fR | \fB-F\fR] [\fB-c\fR | \fB-l\fR | \fB-q\fR]
27 [\fB-bHhinsvwx\fR] [\fB-A\fR \fInumber\fR] [\fB-B\fR \fInumber\fR] [\fB-C\fR
28 [\fIfile\fR]...
29 .fi
30 .LP
31 .nf
32 .LP
33 \fB/usr/bin/grep\fR [\fB-E\fR | \fB-F\fR] [\fB-c\fR | \fB-l\fR | \fB-q\fR] [\fB-
39 \fB/usr/xpg4/bin/grep\fR [\fB-E\fR | \fB-F\fR] [\fB-c\fR | \fB-l\fR | \fB-q\fR]
34 [\fB-bHhinsvwx\fR] [\fB-A\fR \fInumber\fR] [\fB-B\fR \fInumber\fR] [\fB-C\fR
35 .fi
36 .LP
37 .SH DESCRIPTION
38 .LP
39 The \fBgrep\fR utility searches text files for a pattern and prints all lines
40 that contain that pattern. It uses a compact non-deterministic algorithm.
41 .sp
42 .LP
43 Be careful using the characters \fB$\fR, \fB*\fR, \fB[\fR, \fB^\fR, \fB|\fR,
44 \fB(\fR, \fB)\fR, and \fB\e\fR in the \fIpattern_list\fR because they are also
45 meaningful to the shell. It is safest to enclose the entire \fIpattern_list\fR

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46 in single quotes \fB'\fR\&...\fB'\fR\&.
47 .sp
48 .LP
49 If no files are specified, \fBgrep\fR assumes standard input. Normally, each
50 line found is copied to standard output. The file name is printed before each
51 line found if there is more than one input file.
52 .SS "/usr/bin/grep"
53 .LP
54 The options \fB-E\fR and \fB-F\fR affect the way \fBgrep\fR
60 The \fB/usr/bin/grep\fR utility uses limited regular expressions like those
61 described on the \fBregexp\fR(5) manual page to match the patterns.
62 .SS "/usr/xpg4/bin/grep"
63 .LP
64 The options \fB-E\fR and \fB-F\fR affect the way \fB/usr/xpg4/bin/grep\fR
54 interprets \fIpattern_list\fR. If \fB-E\fR is specified,
55 \fBgrep\fR interprets \fIpattern_list\fR as a full regular
66 \fB/usr/xpg4/bin/grep\fR interprets \fIpattern_list\fR as a full regular
56 expression (see \fB-E\fR for description). If \fB-F\fR is specified,
57 \fBgrep\fR interprets \fIpattern_list\fR as a fixed string. If neither are
58 specified, \fBgrep\fR interprets \fIpattern_list\fR as a basic regular
59 expression as described on \fBregex\fR(5) manual page.
60 .SH OPTIONS
61 .LP
62 The following options are supported:
63 .sp
64 .ne 2
65 .na
66 \fB\fB-A\fR \fInumber\fR\fR
67 .ad
68 .RS 6n
69 Prints \fInumber\fR input lines of context after each matching line. If there
70 are multiple matching lines, their context lines are separated by a \fB--\fR
71 delimiter line.
72 .RE
73 The following options are supported for both \fB/usr/bin/grep\fR and
74 \fB/usr/xpg4/bin/grep\fR:
75 .sp
76 .ne 2
77 .na
78 .ad
79 .RS 6n
80 Precedes each line by the block number on which it was found. This can be
81 useful in locating block numbers by context (first block is 0).
82 .RE
83 .sp
84 .ne 2
85 .na
86 .ad
87 \fB\fB-B\fR \fInumber\fR\fR
88 \fB\fB-c\fR\fR
89 .ad
90 .RS 6n
91 Prints \fInumber\fR input lines of context before each matching line. If there
91 are multiple matching lines, their context lines are separated by a \fB--\fR
92 delimiter line.
93 Prints only a count of the lines that contain the pattern.
94 .RE
95 .sp
96 .ne 2
97 .na
98 \fB\fB-c\fR\fR
99 \fB\fB-H\fR\fR
100 .ad

```

```

100 .RS 6n
101 Prints only a count of the lines that contain the pattern.
102 Precedes each line by the name of the file containing the matching line.
103 .RE

104 .sp
105 .ne 2
106 .na
107 \fB\fB-H\fR\fR
108 \fB\fB-h\fR\fR
109 .ad
110 .RS 6n
111 Precedes each line by the name of the file containing the matching line.
112 Prevents the name of the file containing the matching line from being prepended
113 to that line. Used when searching multiple files.
114 .RE

115 .sp
116 .ne 2
117 .na
118 \fB\fB-e\fR \fIpattern_list\fR
119 \fB\fB-i\fR\fR
120 .ad
121 .RS 6n
122 Specifies one or more patterns to be used during the search for input. Patterns
123 in \fIpattern_list\fR must be separated by a NEWLINE character. A null pattern
124 can be specified by two adjacent newline characters in \fIpattern_list\fR.
125 Unless the \fB-E\fR or \fB-F\fR option is also specified, each pattern is
126 treated as a basic regular expression. Multiple \fB-e\fR and \fB-f\fR options
127 are accepted by \fBgrep\fR. All of the specified patterns are used when
128 matching lines, but the order of evaluation is unspecified.
129 Ignores upper/lower case distinction during comparisons.
130 .RE

131 .sp
132 .ne 2
133 .na
134 \fB\fB-E\fR\fR
135 \fB\fB-l\fR\fR
136 .ad
137 .RS 6n
138 Matches using full regular expressions. Treats each pattern specified as a full
139 regular expression. If any entire full regular expression pattern matches an
140 input line, the line is matched. A null full regular expression matches every
141 line. Each pattern is interpreted as a full regular expression as described on
142 the \fBregex\fR(5) manual page, except for \fB\(\fR and \fB\)\fR, and
143 including:
144 .RS +4
145 .TP
146 1.
147 A full regular expression followed by \fB+\fR that matches one or more
148 occurrences of the full regular expression.
149 .RE
150 .RS +4
151 .TP
152 2.
153 A full regular expression followed by \fB?\fR that matches 0 or 1
154 occurrences of the full regular expression.
155 .RE
156 .RS +4
157 .TP
158 3.
159 Full regular expressions separated by | or by a new-line that match strings
160 that are matched by any of the expressions.
161 .RE
162 .RS +4

```

```

163 .TP
164 4.
165 A full regular expression that is enclosed in parentheses \fB()\fR for
166 grouping.
167 .RE
168 The order of precedence of operators is \fB[\]\fR, then \fB*\|?\|+\fR, then
169 concatenation, then | and new-line.
170 Prints only the names of files with matching lines, separated by NEWLINE
171 characters. Does not repeat the names of files when the pattern is found more
172 than once.
173 .RE

174 .sp
175 .ne 2
176 .na
177 \fB\fB-f\fR \fIpattern_file\fR
178 \fB\fB-n\fR\fR
179 .ad
180 .RS 6n
181 Reads one or more patterns from the file named by the path name
182 \fIpattern_file\fR. Patterns in \fIpattern_file\fR are terminated by a NEWLINE
183 character. A null pattern can be specified by an empty line in
184 \fIpattern_file\fR. Unless the \fB-E\fR or \fB-F\fR option is also specified,
185 each pattern is treated as a basic regular expression.
186 Precedes each line by its line number in the file (first line is 1).
187 .RE

188 .sp
189 .ne 2
190 .na
191 \fB\fB-F\fR\fR
192 \fB\fB-r\fR\fR
193 .ad
194 .RS 6n
195 Matches using fixed strings. Treats each pattern specified as a string instead
196 of a regular expression. If an input line contains any of the patterns as a
197 contiguous sequence of bytes, the line is matched. A null string matches every
198 line. See \fBfgrep\fR(1) for more information.
199 Read all files under each directory, recursively. Follow symbolic links on
200 the command line, but skip symlinks that are encountered recursively. If file
201 is a device, FIFO, or socket, skip it.
202 .RE

203 .sp
204 .ne 2
205 .na
206 \fB\fB-h\fR\fR
207 \fB\fB-R\fR\fR
208 .ad
209 .RS 6n
210 Prevents the name of the file containing the matching line from being prepended
211 to that line. Used when searching multiple files.
212 Read all files under each directory, recursively, following all symbolic links.
213 .RE

214 .sp
215 .ne 2
216 .na
217 \fB\fB-i\fR\fR
218 \fB\fB-q\fR\fR
219 .ad
220 .RS 6n
221 Ignores upper/lower case distinction during comparisons.
222 Quiet. Does not write anything to the standard output, regardless of matching
223 lines. Exits with zero status if an input line is selected.
224 .RE

```

```

212 .sp
213 .ne 2
214 .na
215 \fB\fB-l\fR\fR
216 .ad
217 .RS 6n
218 Prints only the names of files with matching lines, separated by NEWLINE
219 characters. Does not repeat the names of files when the pattern is found more
220 than once.
218 Suppresses error messages about nonexistent or unreadable files.
221 .RE

223 .sp
224 .ne 2
225 .na
226 \fB\fB-n\fR\fR
227 .ad
228 .RS 6n
229 Precedes each line by its line number in the file (first line is 1).
229 Prints all lines except those that contain the pattern.
230 .RE

232 .sp
233 .ne 2
234 .na
235 \fB\fB-r\fR\fR
236 .ad
237 .RS 6n
238 Read all files under each directory, recursively. Follow symbolic links on
239 the command line, but skip symlinks that are encountered recursively. If file
240 is a device, FIFO, or socket, skip it.
239 Searches for the expression as a word as if surrounded by \fB\e<\fR and
240 \fB\e>\fR\&.
241 .RE

200 .SS "/usr/xpg4/bin/grep"
201 .LP
202 The following options are supported for \fB/usr/xpg4/bin/grep\fR only:
203 .sp
204 .ne 2
205 .na
206 \fB\fB-R\fR\fR
207 \fB\fB-A\fR \fInumber\fR\fR
208 .ad
209 .RS 6n
209 Read all files under each directory, recursively, following all symbolic links.
208 .RS 19n
209 Prints \fInumber\fR input lines of context after each matching line. If there
210 are multiple matching lines, their context lines are separated by a \fB--\fR
211 delimiter line.
212 .RE

252 .sp
253 .ne 2
254 .na
255 \fB\fB-q\fR\fR
256 .ad
257 .RS 6n
258 Quiet. Does not write anything to the standard output, regardless of matching
259 lines. Exits with zero status if an input line is selected.
219 .RS 19n

```

```

220 Prints \fInumber\fR input lines of context before each matching line. If there
221 are multiple matching lines, their context lines are separated by a \fB--\fR
222 delimiter line.
260 .RE

262 .sp
263 .ne 2
264 .na
265 \fB\fB-\fR \fInumber\fR\fR
266 .ad
267 .br
268 .na
269 \fB\fB-C\fR \fInumber\fR\fR
270 .ad
271 .RS 6n
272 Prints \fInumber\fR input lines of context before and \fInumber\fR input lines
273 of context after each matching line. If there are multiple matching lines,
274 their context lines are separated by a \fB--\fR delimiter line.
275 .RE

277 .sp
278 .ne 2
279 .na
280 \fB\fB-s\fR\fR
281 .ad
282 .RS 6n
283 Suppresses error messages about nonexistent or unreadable files.
246 .RS 19n
247 Specifies one or more patterns to be used during the search for input. Patterns
248 in \fIpattern_list\fR must be separated by a NEWLINE character. A null pattern
249 can be specified by two adjacent newline characters in \fIpattern_list\fR.
250 Unless the \fB-E\fR or \fB-F\fR option is also specified, each pattern is
251 treated as a basic regular expression. Multiple \fB-e\fR and \fB-f\fR options
252 are accepted by \fBgrep\fR. All of the specified patterns are used when
253 matching lines, but the order of evaluation is unspecified.
284 .RE

286 .sp
287 .ne 2
288 .na
289 \fB\fB-v\fR\fR
289 \fB\fB-E\fR \fR
290 .ad
291 .RS 6n
292 Prints all lines except those that contain the pattern.
261 .RS 19n
262 Matches using full regular expressions. Treats each pattern specified as a full
263 regular expression. If any entire full regular expression pattern matches an
264 input line, the line is matched. A null full regular expression matches every
265 line. Each pattern is interpreted as a full regular expression as described on
266 the \fBregex\fR(5) manual page, except for \fB\e(\fR and \fB\e)\fR, and
267 including:
268 .RS +4
269 .TP
270 1.
271 A full regular expression followed by \fB+\fR that matches one or more
272 occurrences of the full regular expression.
273 .RE
274 .RS +4
275 .TP
276 2.
277 A full regular expression followed by \fB?\fR that matches 0 or 1
278 occurrences of the full regular expression.

```

```

279 .RE
280 .RS +4
281 .TP
282 3.
283 Full regular expressions separated by | or by a new-line that match strings
284 that are matched by any of the expressions.
285 .RE
286 .RS +4
287 .TP
288 4.
289 A full regular expression that is enclosed in parentheses \fB()\fR for
290 grouping.
291 .RE
292 The order of precedence of operators is \fB[|]\fR, then \fB*\|?\|+\fR, then
293 concatenation, then | and new-line.
293 .RE

295 .sp
296 .ne 2
297 .na
298 \fB\fB-w\fR\fR
299 \fB\fB-f\fR \fIpattern_file\fR\fR
299 .ad
300 .RS 6n
301 Searches for the expression as a word as if surrounded by \fB\e<\fR and
302 \fB\>\fR&.
301 .RS 19n
302 Reads one or more patterns from the file named by the path name
303 \fIpattern_file\fR. Patterns in \fIpattern_file\fR are terminated by a NEWLINE
304 character. A null pattern can be specified by an empty line in
305 \fIpattern_file\fR. Unless the \fB-E\fR or \fB-F\fR option is also specified,
306 each pattern is treated as a basic regular expression.
307 .RE

309 .sp
310 .ne 2
311 .na
312 \fB\fB-F\fR\fR
313 .ad
314 .RS 19n
315 Matches using fixed strings. Treats each pattern specified as a string instead
316 of a regular expression. If an input line contains any of the patterns as a
317 contiguous sequence of bytes, the line is matched. A null string matches every
318 line. See \fBfgrep\fR(1) for more information.
303 .RE

305 .sp
306 .ne 2
307 .na
308 \fB\fB-x\fR\fR
309 .ad
310 .RS 6n
311 Considers only input lines that use all characters in the line to match an
312 entire fixed string or regular expression to be matching lines.
313 .RE

315 .SH OPERANDS
316 .LP
317 The following operands are supported:
318 .sp
319 .ne 2
320 .na
321 \fB\fIfile\fR
322 .ad
323 .RS 8n

```

```

324 A path name of a file to be searched for the patterns. If no \fIfile\fR
325 operands are specified, the standard input is used.
326 .RE

344 .SS "/usr/bin/grep"
328 .ne 2
329 .na
330 \fB\fIpattern\fR\fR
331 .ad
332 .RS 8n
349 .RS 11n
350 Specifies a pattern to be used during the search for input.
351 .RE

353 .SS "/usr/xpg4/bin/grep"
354 .ne 2
355 .na
356 \fB\fIpattern\fR\fR
357 .ad
358 .RS 11n
333 Specifies one or more patterns to be used during the search for input. This
334 operand is treated as if it were specified as \fB-e\fR \fIpattern_list\fR.
335 .RE

337 .SH USAGE
338 .LP
339 The \fB-e\fR \fIpattern_list\fR option has the same effect as the
340 \fIpattern_list\fR operand, but is useful when \fIpattern_list\fR begins with
341 the hyphen delimiter. It is also useful when it is more convenient to provide
342 multiple patterns as separate arguments.
343 .sp
344 .LP
345 Multiple \fB-e\fR and \fB-f\fR options are accepted and \fBgrep\fR uses all of
346 the patterns it is given while matching input text lines. Notice that the order
347 of evaluation is not specified. If an implementation finds a null string as a
348 pattern, it is allowed to use that pattern first, matching every line, and
349 effectively ignore any other patterns.
350 .sp
351 .LP
352 The \fB-q\fR option provides a means of easily determining whether or not a
353 pattern (or string) exists in a group of files. When searching several files,
354 it provides a performance improvement (because it can quit as soon as it finds
355 the first match) and requires less care by the user in choosing the set of
356 files to supply as arguments (because it exits zero if it finds a match even if
357 \fBgrep\fR detected an access or read error on earlier file operands).
358 .SS "Large File Behavior"
359 .LP
360 See \fBlargefile\fR(5) for the description of the behavior of \fBgrep\fR when
361 encountering files greater than or equal to 2 Gbyte ( 2^31 bytes).
362 .SH EXAMPLES
363 .LP
364 \fBExample 1 \fRFinding All Uses of a Word
365 .sp
366 .LP
367 To find all uses of the word "\fBPosix\fR" (in any case) in the file
368 \fBtext.mm\fR, and write with line numbers:

370 .sp
371 .in +2
372 .nf
373 example% \fB/usr/bin/grep -i -n posix text.mm\fR
374 .fi
375 .in -2
376 .sp

378 .LP

```

```

379 \fBExample 2 \fRFinding All Empty Lines
380 .sp
381 .LP
382 To find all empty lines in the standard input:

384 .sp
385 .in +2
386 .nf
387 example% \fB/usr/bin/grep ^$\fR
388 .fi
389 .in -2
390 .sp

392 .sp
393 .LP
394 or

396 .sp
397 .in +2
398 .nf
399 example% \fB/usr/bin/grep -v .\fR
400 .fi
401 .in -2
402 .sp

404 .LP
405 \fBExample 3 \fRFinding Lines Containing Strings
406 .sp
407 .LP
408 All of the following commands print all lines containing strings \fBabc\fR or
409 \fBdef\fR or both:

411 .sp
412 .in +2
413 .nf
414 example% \fB/usr/bin/grep 'abc'
440 example% \fB/usr/xpg4/bin/grep 'abc'
415 def'\fR
416 example% \fB/usr/bin/grep -e 'abc'
442 example% \fB/usr/xpg4/bin/grep -e 'abc'
417 def'\fR
418 example% \fB/usr/bin/grep -e 'abc' -e 'def'\fR
419 example% \fB/usr/bin/grep -E 'abc|def'\fR
420 example% \fB/usr/bin/grep -E -e 'abc|def'\fR
421 example% \fB/usr/bin/grep -E -e 'abc' -e 'def'\fR
422 example% \fB/usr/bin/grep -E 'abc'
444 example% \fB/usr/xpg4/bin/grep -e 'abc' -e 'def'\fR
445 example% \fB/usr/xpg4/bin/grep -E 'abc|def'\fR
446 example% \fB/usr/xpg4/bin/grep -E -e 'abc|def'\fR
447 example% \fB/usr/xpg4/bin/grep -E -e 'abc' -e 'def'\fR
448 example% \fB/usr/xpg4/bin/grep -E 'abc'
423 def'\fR
424 example% \fB/usr/bin/grep -E -e 'abc'
450 example% \fB/usr/xpg4/bin/grep -E -e 'abc'
425 def'\fR
426 example% \fB/usr/bin/grep -F -e 'abc' -e 'def'\fR
427 example% \fB/usr/bin/grep -F 'abc'
452 example% \fB/usr/xpg4/bin/grep -F -e 'abc' -e 'def'\fR
453 example% \fB/usr/xpg4/bin/grep -F 'abc'
428 def'\fR
429 example% \fB/usr/bin/grep -F -e 'abc'
455 example% \fB/usr/xpg4/bin/grep -F -e 'abc'
430 def'\fR
431 .fi
432 .in -2
433 .sp

```

```

435 .LP
436 \fBExample 4 \fRFinding Lines with Matching Strings
437 .sp
438 .LP
439 Both of the following commands print all lines matching exactly \fBabc\fR or
440 \fBdef\fR:

442 .sp
443 .in +2
444 .nf
445 example% \fB/usr/bin/grep -E '^abc$'
446 '^def$'\fR
447 example% \fB/usr/bin/grep -F -x 'abc'
448 def'\fR
471 example% \fB/usr/xpg4/bin/grep -E '^abc$ ^def$'\fR
472 example% \fB/usr/xpg4/bin/grep -F -x 'abc def'\fR
449 .fi
450 .in -2
451 .sp

453 .SH ENVIRONMENT VARIABLES
454 .LP
455 See \fBenviron\fR(5) for descriptions of the following environment variables
456 that affect the execution of \fBgrep\fR: \fBBLANG\fR, \fBLC_ALL\fR,
457 \fBLC_COLLATE\fR, \fBLC_CTYPE\fR, \fBLC_MESSAGES\fR, and \fBLC_PATH\fR.
458 .SH EXIT STATUS
459 .LP
460 The following exit values are returned:
461 .sp
462 .ne 2
463 .na
464 \fB0\fR
465 .ad
466 .RS 5n
467 One or more matches were found.
468 .RE

470 .sp
471 .ne 2
472 .na
473 \fB1\fR
474 .ad
475 .RS 5n
476 No matches were found.
477 .RE

479 .sp
480 .ne 2
481 .na
482 \fB2\fR
483 .ad
484 .RS 5n
485 Syntax errors or inaccessible files (even if matches were found).
486 .RE

488 .SH ATTRIBUTES
489 .LP
490 See \fBattributes\fR(5) for descriptions of the following attributes:
515 .SS "/usr/bin/grep"

517 .TS
518 box;
519 c | c
520 l | l .
521 ATTRIBUTE TYPE ATTRIBUTE VALUE

```

```
522 _
523 CSI      Not Enabled
524 .TE

526 .SS "/usr/xpg4/bin/grep"

492 .TS
493 box;
494 c | c
495 l | l .
496 ATTRIBUTE TYPE      ATTRIBUTE VALUE
497 _
498 CSI      Enabled
499 _
500 Interface Stability    Committed
501 _
502 Standard      See \fBstandards\fR(5).
503 .TE

505 .SH SEE ALSO
506 .LP
507 \fBbegrep\fR(1), \fBfgrep\fR(1), \fBsed\fR(1), \fBsh\fR(1), \fBattributes\fR(5),
508 \fBenviron\fR(5), \fBlargefile\fR(5), \fBregex\fR(5), \fBregexp\fR(5),
509 \fBstandards\fR(5)
510 .SH NOTES
511 .LP
512 The results are unspecified if input files contain lines longer than
513 \fBLINE_MAX\fR bytes or contain binary data. \fBLINE_MAX\fR is defined in
514 \fBusr/include/limits.h\fR.
515 .LP
516 In the past the behavior of \fBusr/xpg4/bin/grep\fR and
517 \fBusr/bin/grep\fR utilities was different. Now \fBusr/bin/grep\fR
518 is replaced by \fBusr/xpg4/bin/grep\fR.
519 #endif /* ! codereview */
```

```

*****
6665 Thu Dec 28 10:33:37 2017
new/usr/src/man/man1/locale.1
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
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8  \" You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE or http:
9  \" When distributing Covered Code, include this CDDL HEADER in each file and in
10 .TH LOCALE 1 "Nov 28, 2017"
10 .TH LOCALE 1 "Dec 20, 1996"
11 .SH NAME
12 locale \- get locale-specific information
13 .SH SYNOPSIS
14 .LP
15 .nf
16 \fBlocale\fR [\fB-a\fR | \fB-m\fR]
17 .fi

19 .LP
20 .nf
21 \fBlocale\fR [\fB-ck\fR] \fIname\fR...
22 .fi

24 .SH DESCRIPTION
25 .sp
25 .LP
26 The \fBlocale\fR utility writes information about the current locale
27 environment, or all public locales, to the standard output. For the purposes of
28 this section, a \fIpublic.locale\fR is one provided by the implementation that
29 is accessible to the application.
30 .sp
31 .LP
32 When \fBlocale\fR is invoked without any arguments, it summarizes the current
33 locale environment for each locale category as determined by the settings of
34 the environment variables.
35 .sp
36 .LP
37 When invoked with operands, it writes values that have been assigned to the
38 keywords in the locale categories, as follows:
39 .RS +4
40 .TP
41 .ie t \(\bu
42 .el o
43 Specifying a keyword name selects the named keyword and the category containing
44 that keyword.
45 .RE
46 .RS +4
47 .TP
48 .ie t \(\bu
49 .el o
50 Specifying a category name selects the named category and all keywords in that
51 category.
52 .RE
53 .SH OPTIONS

```

```

55 .sp
54 .LP
55 The following options are supported:
56 .sp
57 .ne 2
58 .na
59 \fB-a\fR
60 .ad
61 .RS 6n
62 Writes information about all available public locales. The available locales
63 include \fBPOSIX\fR, representing the POSIX locale.
64 .RE

66 .sp
67 .ne 2
68 .na
69 \fB-c\fR
70 .ad
71 .RS 6n
72 Writes the names of selected locale categories. The \fB-c\fR option increases
73 readability when more than one category is selected (for example, via more than
74 one keyword name or via a category name). It is valid both with and without the
75 \fB-k\fR option.
76 .RE

78 .sp
79 .ne 2
80 .na
81 \fB-k\fR
82 .ad
83 .RS 6n
84 Writes the names and values of selected keywords. The implementation may omit
85 values for some keywords; see OPERANDS.
86 .RE

88 .sp
89 .ne 2
90 .na
91 \fB-m\fR
92 .ad
93 .RS 6n
94 Writes names of available charmaps; see \fBlocaledef\fR(1).
95 .RE

97 .SH OPERANDS
100 .sp
98 .LP
99 The following operand is supported:
100 .sp
101 .ne 2
102 .na
103 \fBname\fR
104 .ad
105 .RS 8n
106 The name of a locale category, the name of a keyword in a locale category, or
107 the reserved name \fBcharmap\fR. The named category or keyword will be selected
108 for output. If a single \fIname\fR represents both a locale category name and a
109 keyword name in the current locale, the results are unspecified; otherwise,
110 both category and keyword names can be specified as \fIname\fR operands, in any
111 sequence.
112 .RE

114 .SH EXAMPLES
115 .LP
116 \fBexample 1\fR Examples of the locale utility
117 .sp

```

```
118 .LP
119 In the following examples, the assumption is that locale environment variables
120 are set as follows:
```

```
122 .sp
123 .in +2
124 .nf
125 LANG=locale_x LC_COLLATE=locale_y
126 .fi
127 .in -2
128 .sp
```

```
130 .sp
131 .LP
132 The command \fBlocale\fR would result in the following output:
```

```
134 .sp
135 .in +2
136 .nf
137 LANG=locale_x
138 LC_CTYPE="locale_x"
139 LC_NUMERIC="locale_x"
140 LC_TIME="locale_x"
141 LC_COLLATE=locale_y
142 LC_MONETARY="locale_x"
143 LC_MESSAGES="locale_x"
144 LC_ALL=
145 .fi
146 .in -2
147 .sp
```

```
149 .sp
150 .LP
151 The command
```

```
153 .sp
154 .in +2
155 .nf
156 \fBLC_ALL=POSIX locale -ck decimal_point\fR
157 .fi
158 .in -2
159 .sp
```

```
161 .sp
162 .LP
163 would produce:
```

```
165 .sp
166 .in +2
167 .nf
168 LC_NUMERIC
169 decimal_point="."
170 .fi
171 .in -2
172 .sp
```

```
174 .sp
175 .LP
176 The following command shows an application of \fBlocale\fR to determine whether
177 a user-supplied response is affirmative:
```

```
179 .sp
180 .in +2
181 .nf
182 \fBif printf "%s\n" "$response" | /usr/bin/grep -Eqe
185 \fBif printf "%s\n" "$response" | /usr/xpg4/bin/grep -Eqe
```

```
183     "$(locale yesexpr)"
184 then
185     affirmative processing goes here
186 else
187     non-affirmative processing goes here
188 fi\fR
189 .fi
190 .in -2
191 .sp
```

```
193 .SH ENVIRONMENT VARIABLES
```

```
197 .sp
198 .LP
199 See \fBenvron\fR(5) for the descriptions of \fBBLANG\fR, \fBLC_ALL\fR,
200 \fBLC_CTYPE\fR, \fBLC_MESSAGES\fR, and \fBNLSPATH\fR.
201 .sp
202 .LP
203 The \fBBLANG\fR, \fBLC_*\fR, and \fBNLSPATH\fR environment variables must
204 specify the current locale environment to be written out. These environment
205 variables will be used if the \fB-a\fR option is not specified.
206 .SH EXIT STATUS
```

```
207 .sp
208 .LP
209 The following exit values are returned:
```

```
210 .sp
211 .ne 2
212 .na
213 \fB0\fR
214 .ad
215 .RS 6n
216 All the requested information was found and output successfully.
217 .RE
```

```
218 .sp
219 .ne 2
220 .na
221 \fB>0\fR
222 .ad
223 .RS 6n
224 An error occurred.
225 .RE
```

```
226 .SH ATTRIBUTES
```

```
227 .sp
228 .LP
229 See \fBattributes\fR(5) for descriptions of the following attributes:
230 .sp
```

```
231 .sp
232 .TS
233 box;
234 c | c
235 l | l .
236 ATTRIBUTE TYPE ATTRIBUTE VALUE
237 _
238 CSI Enabled
239 _
240 Interface Stability Standard
241 .TE
```

```
242 .SH SEE ALSO
```

```
243 .sp
244 .LP
245 \fBlocaledef\fR(1), \fBattributes\fR(5), \fBbcharmap\fR(5), \fBenvron\fR(5),
246 \fBlocale\fR(5), \fBstandards\fR(5)
247 .SH NOTES
```


252 .sp
245 .LP
246 If \fBLC_CTYPE\fR or keywords in the category \fBLC_CTYPE\fR are specified,
247 only the values in the range \fB0x00\fR-\fB0x7f\fR are written out.
248 .sp
249 .LP
250 If \fBLC_COLLATE\fR or keywords in the category \fBLC_COLLATE\fR are specified,
251 no actual values are written out.

```

*****
87456 Thu Dec 28 10:33:37 2017
new/usr/src/pkg/manifests/SUNWcs.mf
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
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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 (c) 2013 Gary Mills
25 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
26 # Copyright 2015 Nexenta Systems, Inc. All rights reserved.
27 # Copyright 2017 Toomas Soome <tsoome@me.com>
28 #
29 #
30 <include SUNWcs.man1.inc>
31 <include SUNWcs.man1m.inc>
32 <include SUNWcs.man4.inc>
33 <include SUNWcs.man5.inc>
34 <include SUNWcs.man7d.inc>
35 <include SUNWcs.man7fs.inc>
36 set name=pkg.fmri value=pkg:/SUNWcs@$(PKGVERS)
37 set name=pkg.description \
38     value="core software for a specific instruction-set architecture"
39 set name=pkg.summary value="Core Solaris"
40 set name=info.classification value=org.opensolaris.category.2008:System/Core
41 set name=variant.arch value=$(ARCH)
42 dir path=dev group=sys
43 dir path=etc group=sys
44 dir path=etc/cron.d group=sys
45 dir path=etc/crypto group=sys
46 dir path=etc/crypto/certs group=sys
47 dir path=etc/crypto/crls group=sys
48 dir path=etc/default group=sys
49 dir path=etc/dev group=sys
50 dir path=etc/devices group=sys
51 dir path=etc/dfs group=sys
52 dir path=etc/dhcp group=sys
53 dir path=etc/fs group=sys
54 dir path=etc/fs/dev group=sys
55 dir path=etc/fs/hsfs group=sys

```

```

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

```

new/usr/src/pkg/manifests/SUNWcs.mf

```

122 dir path=lib/svc/manifest/system/security group=sys
123 dir path=lib/svc/manifest/system/svc group=sys
124 dir path=lib/svc/method
125 dir path=lib/svc/monitor
126 dir path=lib/svc/seed
127 dir path=lib/svc/share
128 dir path=mnt group=sys
129 dir path=opt group=sys
130 dir path=proc group=root mode=0555
131 dir path=root group=root mode=0700
132 dir path=sbin group=sys
133 dir path=system group=root
134 dir path=system/boot group=root mode=0555
135 dir path=system/contract group=root mode=0555
136 dir path=system/object group=root mode=0555
137 dir path=tmp group=sys mode=1777
138 dir path=usr group=sys
139 dir path=usr/bin
140 dir path=usr/bin/$(ARCH32)
141 dir path=usr/bin/$(ARCH64)
142 dir path=usr/ccs
143 dir path=usr/ccs/bin
144 dir path=usr/demo
145 dir path=usr/games
146 dir path=usr/has
147 dir path=usr/has/bin
148 dir path=usr/has/lib
149 dir path=usr/has/man
150 dir path=usr/has/man/man1has
151 dir path=usr/kernel group=sys
152 dir path=usr/kernel/drv group=sys
153 dir path=usr/kernel/drv/$(ARCH64) group=sys
154 dir path=usr/kernel/exec group=sys
155 dir path=usr/kernel/exec/$(ARCH64) group=sys
156 dir path=usr/kernel/fs group=sys
157 dir path=usr/kernel/fs/$(ARCH64) group=sys
158 dir path=usr/kernel/pcbe group=sys
159 dir path=usr/kernel/pcbe/$(ARCH64) group=sys
160 dir path=usr/kernel/sched group=sys
161 dir path=usr/kernel/sched/$(ARCH64) group=sys
162 dir path=usr/kernel/strmod group=sys
163 dir path=usr/kernel/strmod/$(ARCH64) group=sys
164 dir path=usr/kernel/sys group=sys
165 dir path=usr/kernel/sys/$(ARCH64) group=sys
166 dir path=usr/kvm
167 dir path=usr/lib
168 dir path=usr/lib/$(ARCH64)
169 dir path=usr/lib/audit
170 dir path=usr/lib/class
171 dir path=usr/lib/class/FX
172 dir path=usr/lib/class/IA
173 dir path=usr/lib/class/RT
174 dir path=usr/lib/class/SDC
175 dir path=usr/lib/class/TS
176 dir path=usr/lib/crypto
177 dir path=usr/lib/devfsadm group=sys
178 dir path=usr/lib/devfsadm/linkmod group=sys
179 dir path=usr/lib/fs group=sys
180 dir path=usr/lib/fs/autofs group=sys
181 dir path=usr/lib/fs/autofs/$(ARCH64) group=sys
182 dir path=usr/lib/fs/bootfs group=sys
183 dir path=usr/lib/fs/ctfs group=sys
184 dir path=usr/lib/fs/dev group=sys
185 dir path=usr/lib/fs/fd group=sys
186 dir path=usr/lib/fs/hsfs group=sys
187 dir path=usr/lib/fs/lofs group=sys

```

3

new/usr/src/pkg/manifests/SUNWcs.mf

```

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

```

4

```

254 dir path=usr/share/man/man4
255 dir path=usr/share/man/man5
256 dir path=usr/share/man/man7d
257 dir path=usr/share/man/man7fs
258 dir path=usr/share/src group=sys
259 dir path=var group=sys
260 dir path=var/adm group=sys mode=0775
261 dir path=var/adm/exacct group=adm owner=adm
262 dir path=var/adm/log group=adm owner=adm
263 dir path=var/adm/streams group=sys
264 dir path=var/audit group=sys
265 dir path=var/cores group=sys
266 dir path=var/cron group=sys
267 dir path=var/games
268 dir path=var/idmap group=daemon owner=daemon
269 dir path=var/inet group=sys
270 dir path=var/ld
271 dir path=var/ld/${ARCH64}
272 dir path=var/log group=sys
273 dir path=var/logadm
274 dir path=var/mail group=mail mode=1777
275 dir path=var/mail/:saved group=mail mode=0775
276 dir path=var/news
277 dir path=var/opt group=sys
278 dir path=var/preserve mode=1777
279 dir path=var/run group=sys
280 dir path=var/saf
281 dir path=var/saf/zsmon group=sys
282 dir path=var/spool
283 dir path=var/spool/cron group=sys
284 dir path=var/spool/cron/atjobs group=sys
285 dir path=var/spool/cron/crontabs group=sys
286 dir path=var/spool/locks group=uucp owner=uucp
287 dir path=var/svc group=sys
288 dir path=var/svc/log group=sys
289 dir path=var/svc/manifest group=sys
290 dir path=var/svc/manifest/application group=sys
291 dir path=var/svc/manifest/application/management group=sys
292 dir path=var/svc/manifest/application/print group=sys
293 dir path=var/svc/manifest/application/security group=sys
294 dir path=var/svc/manifest/device group=sys
295 dir path=var/svc/manifest/milestone group=sys
296 dir path=var/svc/manifest/network group=sys
297 dir path=var/svc/manifest/network/dns group=sys
298 dir path=var/svc/manifest/network/ipsec group=sys
299 dir path=var/svc/manifest/network/ldap group=sys
300 dir path=var/svc/manifest/network/nfs group=sys
301 dir path=var/svc/manifest/network/nis group=sys
302 dir path=var/svc/manifest/network/routing group=sys
303 dir path=var/svc/manifest/network/rpc group=sys
304 dir path=var/svc/manifest/network/security group=sys
305 dir path=var/svc/manifest/network/shares group=sys
306 dir path=var/svc/manifest/network/ssl group=sys
307 dir path=var/svc/manifest/platform group=sys
308 $(sparc_ONLY)dir path=var/svc/manifest/platform/sun4u group=sys
309 $(sparc_ONLY)dir path=var/svc/manifest/platform/sun4v group=sys
310 dir path=var/svc/manifest/site group=sys
311 dir path=var/svc/manifest/system group=sys
312 dir path=var/svc/manifest/system/device group=sys
313 dir path=var/svc/manifest/system/filesystem group=sys
314 dir path=var/svc/manifest/system/security group=sys
315 dir path=var/svc/manifest/system/svc group=sys
316 dir path=var/svc/profile group=sys
317 dir path=var/tmp group=sys mode=1777
318 driver name=dump perms="dump 0660 root sys"
319 driver name=eventfd perms="* 0666 root sys"

```

```

320 driver name=fssnap \
321     policy="ctl read_priv_set=sys_config write_priv_set=sys_config" \
322     perms="* 0640 root sys" perms="ctl 0666 root sys"
323 driver name=kstat perms="* 0666 root sys"
324 driver name=ksyms perms="* 0666 root sys"
325 driver name=logindmux
326 driver name=ptm clone_perms="ptmx 0666 root sys"
327 driver name=pts perms="* 0644 root sys" perms="0 0620 root tty" \
328     perms="1 0620 root tty" perms="2 0620 root tty" perms="3 0620 root tty"
329 driver name=timerfd perms="* 0666 root sys"
330 file path=etc/.login group=sys preserve=renamew
331 file path=etc/cron.d/.proto group=sys mode=0744
332 file path=etc/cron.d/at.deny group=sys preserve=true
333 file path=etc/cron.d/cron.deny group=sys preserve=true
334 file path=etc/cron.d/queuedefs group=sys
335 file path=etc/crypto/kmf.conf group=sys preserve=true
336 file path=etc/crypto/pkcs11.conf group=sys preserve=true
337 file path=etc/datensk group=sys mode=0444
338 file path=etc/default/cron group=sys preserve=true
339 file path=etc/default/devfsadm group=sys preserve=true
340 file path=etc/default/fs group=sys preserve=true
341 file path=etc/default/init group=sys preserve=true
342 file path=etc/default/keyserv group=sys preserve=true
343 file path=etc/default/login group=sys preserve=true
344 file path=etc/default/nss group=sys preserve=true
345 file path=etc/default/passwd group=sys preserve=true
346 file path=etc/default/su group=sys preserve=true
347 file path=etc/default/syslogd group=sys preserve=true
348 file path=etc/default/tar group=sys preserve=true
349 file path=etc/default/useradd group=sys preserve=true
350 file path=etc/default/utmpd group=sys preserve=true
351 file path=etc/dev/reserved_devnames group=sys preserve=true
352 file path=etc/device.tab group=root mode=0444 preserve=true
353 file path=etc/dfs/dfstab group=sys preserve=true
354 file path=etc/dfs/fstypes group=root preserve=true
355 file path=etc/dfs/sharetab group=root mode=0444 preserve=true
356 file path=etc/dgroup.tab group=sys mode=0444 preserve=true
357 file path=etc/dhcp/inittab group=sys preserve=true
358 file path=etc/dhcp/inittab6 group=sys preserve=true
359 file path=etc/dumpdates group=sys mode=0664 preserve=true
360 file path=etc/format.dat group=sys preserve=true
361 file path=etc/fs/dev/mount mode=0555
362 file path=etc/fs/hfs/mount mode=0555
363 file path=etc/fs/ufs/mount mode=0555
364 file path=etc/ftpd/ftpusers group=sys preserve=true
365 file path=etc/group group=sys preserve=true
366 file path=etc/inet/hosts group=sys preserve=true
367 file path=etc/inet/inetd.conf group=sys preserve=true
368 file path=etc/inet/ipaddrsel.conf group=sys preserve=true
369 file path=etc/inet/netmasks group=sys preserve=true
370 file path=etc/inet/networks group=sys preserve=true
371 file path=etc/inet/protocols group=sys preserve=true
372 file path=etc/inet/services group=sys preserve=true
373 file path=etc/inet/wanboot.conf.sample group=sys mode=0444
374 file path=etc/init.d/PRESERVE group=sys mode=0744 preserve=true
375 file path=etc/init.d/README group=sys preserve=true
376 file path=etc/init.d/sysetup group=sys mode=0744 preserve=true
377 file path=etc/inittab group=sys preserve=true
378 file path=etc/ioctl.syscon group=sys preserve=true
379 file path=etc/ksh.kshrc group=sys preserve=renameold
380 file path=etc/logadm.conf group=sys preserve=true timestamp=19700101T000000Z
381 file path=etc/loginddevperm group=sys preserve=true
382 file path=etc/magic mode=0444
383 file path=etc/mail/mailx.rc preserve=true
384 file path=etc/mailcap preserve=true
385 file path=etc/mime.types preserve=true

```

```

386 file path=etc/mnttab group=root mode=0444 preserve=true
387 file path=etc/motd group=sys preserve=true
388 file path=etc/net/ticlts/hosts group=sys
389 file path=etc/net/ticlts/services group=sys preserve=true
390 file path=etc/net/ticots/hosts group=sys
391 file path=etc/net/ticots/services group=sys preserve=true
392 file path=etc/net/ticotsord/hosts group=sys
393 file path=etc/net/ticotsord/services group=sys preserve=true
394 file path=etc/netconfig group=sys preserve=true
395 file path=etc/nsscd.conf group=sys preserve=true
396 file path=etc/nsswitch.ad group=sys
397 file path=etc/nsswitch.conf group=sys preserve=true
398 file path=etc/nsswitch.dns group=sys
399 file path=etc/nsswitch.files group=sys
400 file path=etc/nsswitch.ldap group=sys
401 file path=etc/pam.conf group=sys preserve=true
402 file path=etc/passwd group=sys preserve=true
403 file path=etc/profile group=sys preserve=renamew
404 file path=etc/project group=sys preserve=true
405 file path=etc/rc2.d/README group=sys
406 file path=etc/rc3.d/README group=sys
407 file path=etc/rcS.d/README group=sys
408 file path=etc/remote preserve=true
409 file path=etc/rpc group=sys preserve=true
410 file path=etc/saf/_sactab group=sys preserve=true
411 file path=etc/saf/_sysconfig group=sys preserve=true
412 file path=etc/saf/zsmon/_pmtab group=sys preserve=true
413 file path=etc/security/audit_class group=sys preserve=renamew
414 file path=etc/security/audit_event group=sys preserve=renamew
415 file path=etc/security/audit_warn group=sys mode=0740 preserve=renamew
416 file path=etc/security/auth_attr group=sys preserve=true \
417     timestamp=19700101T000000Z
418 file path=etc/security/auth_attr.d/SUNWcs group=sys
419 file path=etc/security/crypt.conf group=sys preserve=renamew
420 file path=etc/security/dev/audio mode=0400
421 file path=etc/security/dev/fd0 mode=0400
422 file path=etc/security/dev/sr0 mode=0400
423 file path=etc/security/dev/st0 mode=0400
424 file path=etc/security/dev/st1 mode=0400
425 file path=etc/security/exec_attr group=sys preserve=true \
426     timestamp=19700101T000000Z
427 file path=etc/security/exec_attr.d/SUNWcs group=sys
428 file path=etc/security/kmfpolicy.xml
429 file path=etc/security/lib/audio_clean group=sys mode=0555
430 file path=etc/security/lib/fd_clean group=sys mode=0555
431 file path=etc/security/lib/sr_clean group=sys mode=0555
432 file path=etc/security/lib/st_clean group=sys mode=0555
433 file path=etc/security/policy.conf group=sys preserve=true
434 file path=etc/security/priv_names group=sys preserve=renameold
435 file path=etc/security/prof_attr group=sys preserve=true \
436     timestamp=19700101T000000Z
437 file path=etc/security/prof_attr.d/SUNWcs group=sys
438 file path=etc/shadow group=sys mode=0400 preserve=true
439 file path=etc/skel/.kshrc group=other preserve=true
440 file path=etc/skel/.profile group=other preserve=true
441 file path=etc/svc/profile/generic_limited_net.xml group=sys mode=0444
442 file path=etc/svc/profile/generic_open.xml group=sys mode=0444
443 file path=etc/svc/profile/inetd_generic.xml group=sys mode=0444
444 file path=etc/svc/profile/inetd_upgrade.xml group=sys mode=0444
445 file path=etc/svc/profile/ns_dns.xml group=sys mode=0444
446 file path=etc/svc/profile/ns_files.xml group=sys mode=0444
447 file path=etc/svc/profile/ns_ldap.xml group=sys mode=0444
448 file path=etc/svc/profile/ns_nis.xml group=sys mode=0444
449 file path=etc/svc/profile/ns_none.xml group=sys mode=0444
450 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,SPARC-Enterprise.xml \
451     group=sys mode=0444

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452 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire-15000.xml \
453     group=sys mode=0444
454 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire-880.xml \
455     group=sys mode=0444
456 $(sparc_ONLY)file path=etc/svc/profile/platform_SUNW,Sun-Fire.xml group=sys \
457     mode=0444
458 $(sparc_ONLY)file \
459     path=etc/svc/profile/platform_SUNW,Ultra-Enterprise-10000.xml group=sys \
460     mode=0444
461 $(sparc_ONLY)file \
462     path=etc/svc/profile/platform_SUNW,UltraSPARC-III-Netractor.xml group=sys \
463     mode=0444
464 file path=etc/svc/profile/platform_none.xml group=sys mode=0444
465 $(sparc_ONLY)file path=etc/svc/profile/platform_sun4v.xml group=sys mode=0444
466 file path=etc/sysevent/config/README group=sys mode=0444
467 file path=etc/sysevent/config/SUNW,EC_dr,ESC_dr_req,sysevent.conf group=sys
468 file path=etc/syslog.conf group=sys preserve=true
469 file path=etc/ttydefs group=sys preserve=true
470 file path=etc/ttysrchr group=sys preserve=true
471 file path=etc/user_attr group=sys preserve=true timestamp=19700101T000000Z
472 file path=etc/user_attr.d/SUNWcs group=sys
473 file path=etc/vfstab group=sys preserve=true
474 file path=lib/inet/in.mpathd mode=0555
475 file path=lib/inet/ipmgmt mode=0555
476 file path=lib/inet/netcfgd mode=0555
477 file path=lib/inet/nwamd mode=0555
478 file path=lib/svc/bin/lsvcrun group=sys mode=0555
479 file path=lib/svc/bin/mfstscan group=sys mode=0555
480 file path=lib/svc/bin/restore_repository group=sys mode=0555
481 file path=lib/svc/bin/sqlite group=sys mode=0555
482 file path=lib/svc/bin/svc.configd group=sys mode=0555
483 file path=lib/svc/bin/svc.ipfd group=sys mode=0555
484 file path=lib/svc/bin/svc.startd group=sys mode=0555
485 file path=lib/svc/manifest/milestone/multi-user-server.xml group=sys mode=0444
486 file path=lib/svc/manifest/milestone/multi-user.xml group=sys mode=0444
487 file path=lib/svc/manifest/milestone/name-services.xml group=sys mode=0444
488 file path=lib/svc/manifest/milestone/network.xml group=sys mode=0444
489 file path=lib/svc/manifest/milestone/single-user.xml group=sys mode=0444
490 file path=lib/svc/manifest/milestone/sysconfig.xml group=sys mode=0444
491 file path=lib/svc/manifest/network/dlmgmt.xml group=sys mode=0444
492 file path=lib/svc/manifest/network/dns/client.xml group=sys mode=0444
493 file path=lib/svc/manifest/network/dns/install.xml group=sys mode=0444
494 file path=lib/svc/manifest/network/forwarding.xml group=sys mode=0444
495 file path=lib/svc/manifest/network/inetd_upgrade.xml group=sys mode=0444
496 file path=lib/svc/manifest/network/inetd.xml group=sys mode=0444
497 file path=lib/svc/manifest/network/ipsec/ike.xml group=sys mode=0444
498 file path=lib/svc/manifest/network/ipsec/ipsecalgs.xml group=sys mode=0444
499 file path=lib/svc/manifest/network/ipsec/manual-key.xml group=sys mode=0444
500 file path=lib/svc/manifest/network/ipsec/policy.xml group=sys mode=0444
501 file path=lib/svc/manifest/network/ldap/client.xml group=sys mode=0444
502 file path=lib/svc/manifest/network/network-initial.xml group=sys mode=0444
503 file path=lib/svc/manifest/network/network-install.xml group=sys mode=0444
504 file path=lib/svc/manifest/network/network-ipmgmt.xml group=sys mode=0444
505 file path=lib/svc/manifest/network/network-ipqos.xml group=sys mode=0444
506 file path=lib/svc/manifest/network/network-iptun.xml group=sys mode=0444
507 file path=lib/svc/manifest/network/network-location.xml group=sys mode=0444
508 file path=lib/svc/manifest/network/network-loopback.xml group=sys mode=0444
509 file path=lib/svc/manifest/network/network-netcfg.xml group=sys mode=0444
510 file path=lib/svc/manifest/network/network-netmask.xml group=sys mode=0444
511 file path=lib/svc/manifest/network/network-physical.xml group=sys mode=0444
512 file path=lib/svc/manifest/network/network-routing-setup.xml group=sys \
513     mode=0444
514 file path=lib/svc/manifest/network/network-service.xml group=sys mode=0444
515 file path=lib/svc/manifest/network/routing/legacy-routing.xml group=sys \
516     mode=0444
517 file path=lib/svc/manifest/network/rpc/bind.xml group=sys mode=0444

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518 file path=lib/svc/manifest/network/rpc/keysevr.xml group=sys mode=0444
519 file path=lib/svc/manifest/network/shares/group.xml group=sys mode=0444
520 file path=lib/svc/manifest/network/shares/reparsed.xml group=sys mode=0444
521 file path=lib/svc/manifest/network/socket-filter-kssl.xml group=sys mode=0444
522 file path=lib/svc/manifest/network/ssl/kssl-proxy.xml group=sys mode=0444
523 file path=lib/svc/manifest/system/auditd.xml group=sys mode=0444
524 file path=lib/svc/manifest/system/auditset.xml group=sys mode=0444
525 file path=lib/svc/manifest/system/boot-archive-update.xml group=sys mode=0444
526 file path=lib/svc/manifest/system/boot-archive.xml group=sys mode=0444
527 file path=lib/svc/manifest/system/boot-config.xml group=sys mode=0444
528 file path=lib/svc/manifest/system/consadm.xml group=sys mode=0444
529 file path=lib/svc/manifest/system/console-login.xml group=sys mode=0444
530 file path=lib/svc/manifest/system/coreadm.xml group=sys mode=0444
531 file path=lib/svc/manifest/system/cron.xml group=sys mode=0444
532 file path=lib/svc/manifest/system/cryptosvc.xml group=sys mode=0444
533 file path=lib/svc/manifest/system/device/allocate.xml group=sys mode=0444
534 file path=lib/svc/manifest/system/device/devices-audio.xml group=sys mode=0444
535 file path=lib/svc/manifest/system/device/devices-local.xml group=sys mode=0444
536 file path=lib/svc/manifest/system/device/mpxio-upgrade.xml group=sys mode=0444
537 file path=lib/svc/manifest/system/early-manifest-import.xml group=sys \
538 mode=0444
539 file path=lib/svc/manifest/system/extended-accounting.xml group=sys mode=0444
540 file path=lib/svc/manifest/system/filesystem/local-fs.xml group=sys mode=0444
541 file path=lib/svc/manifest/system/filesystem/minimal-fs.xml group=sys \
542 mode=0444
543 file path=lib/svc/manifest/system/filesystem/root-fs.xml group=sys mode=0444
544 file path=lib/svc/manifest/system/filesystem/usr-fs.xml group=sys mode=0444
545 $(i386_ONLY)file path=lib/svc/manifest/system/hostid.xml group=sys mode=0444
546 file path=lib/svc/manifest/system/hotplug.xml group=sys mode=0444
547 file path=lib/svc/manifest/system/identity.xml group=sys mode=0444
548 file path=lib/svc/manifest/system/idmap.xml group=sys mode=0444
549 file path=lib/svc/manifest/system/keymap.xml group=sys mode=0444
550 file path=lib/svc/manifest/system/logadm-upgrade.xml group=sys mode=0444
551 file path=lib/svc/manifest/system/manifest-import.xml group=sys mode=0444
552 file path=lib/svc/manifest/system/name-service-cache.xml group=sys mode=0444
553 file path=lib/svc/manifest/system/pfexecd.xml group=sys mode=0444
554 file path=lib/svc/manifest/system/process-security.xml group=sys mode=0444
555 file path=lib/svc/manifest/system/rbac.xml group=sys mode=0444
556 file path=lib/svc/manifest/system/rmtmpfiles.xml group=sys mode=0444
557 file path=lib/svc/manifest/system/sac.xml group=sys mode=0444
558 file path=lib/svc/manifest/system/svc/global.xml group=sys mode=0444
559 file path=lib/svc/manifest/system/svc/restarter.xml group=sys mode=0444
560 file path=lib/svc/manifest/system/system-log.xml group=sys mode=0444
561 file path=lib/svc/manifest/system/utmp.xml group=sys mode=0444
562 file path=lib/svc/manifest/system/vtdaemon.xml group=sys mode=0444
563 file path=lib/svc/method/boot-archive mode=0555
564 file path=lib/svc/method/boot-archive-update mode=0555
565 file path=lib/svc/method/console-login mode=0555
566 file path=lib/svc/method/devices-audio mode=0555
567 file path=lib/svc/method/devices-local mode=0555
568 file path=lib/svc/method/dns-install mode=0555
569 file path=lib/svc/method/fs-local mode=0555
570 file path=lib/svc/method/fs-minimal mode=0555
571 file path=lib/svc/method/fs-root mode=0555
572 file path=lib/svc/method/fs-usr mode=0555
573 file path=lib/svc/method/identity-domain mode=0555
574 file path=lib/svc/method/identity-node mode=0555
575 file path=lib/svc/method/inetd-upgrade mode=0555
576 file path=lib/svc/method/keymap mode=0555
577 file path=lib/svc/method/ldap-client mode=0555
578 file path=lib/svc/method/logadm-upgrade mode=0555
579 file path=lib/svc/method/manifest-import mode=0555
580 file path=lib/svc/method/mpxio-upgrade mode=0555
581 file path=lib/svc/method/net-init mode=0555
582 file path=lib/svc/method/net-install mode=0555
583 file path=lib/svc/method/net-ipmgmt mode=0555

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584 file path=lib/svc/method/net-ipqos mode=0555
585 file path=lib/svc/method/net-iptun mode=0555
586 file path=lib/svc/method/net-loc mode=0555
587 file path=lib/svc/method/net-loopback mode=0555
588 file path=lib/svc/method/net-netmask mode=0555
589 file path=lib/svc/method/net-nwam mode=0555
590 file path=lib/svc/method/net-physical mode=0555
591 file path=lib/svc/method/net-routing-setup mode=0555
592 file path=lib/svc/method/net-svc mode=0555
593 file path=lib/svc/method/rmtmpfiles mode=0555
594 file path=lib/svc/method/rpc-bind mode=0555
595 file path=lib/svc/method/svc-allocate mode=0555
596 file path=lib/svc/method/svc-auditd mode=0555
597 file path=lib/svc/method/svc-auditset mode=0555
598 file path=lib/svc/method/svc-boot-config mode=0555
599 file path=lib/svc/method/svc-consadm mode=0555
600 file path=lib/svc/method/svc-cron mode=0555
601 file path=lib/svc/method/svc-dlmgmt mode=0555
602 file path=lib/svc/method/svc-forwarding mode=0555
603 $(i386_ONLY)file path=lib/svc/method/svc-hostid mode=0555
604 file path=lib/svc/method/svc-hotplug mode=0555
605 file path=lib/svc/method/svc-legacy-routing mode=0555
606 file path=lib/svc/method/svc-nsdc mode=0555
607 file path=lib/svc/method/svc-rbac mode=0555
608 file path=lib/svc/method/svc-sockfilter mode=0555
609 file path=lib/svc/method/svc-utmpd mode=0555
610 file path=lib/svc/method/system-log mode=0555
611 file path=lib/svc/method/vtdaemon mode=0555
612 file path=lib/svc/method/yp mode=0555
613 # global.db is not needed in non-global zones, and it's pretty large.
614 file path=lib/svc/seed/global.db group=sys mode=0444 \
615 variant.opensolaris.zone=global
616 # symmetrically, nonglobal.db is not needed in global zones.
617 file path=lib/svc/seed/nonglobal.db group=sys mode=0444 \
618 variant.opensolaris.zone=nonglobal
619 file path=lib/svc/share/README mode=0444
620 file path=lib/svc/share/fs_include.sh mode=0444
621 file path=lib/svc/share/ipf_include.sh mode=0444
622 file path=lib/svc/share/mfsthistory mode=0444
623 file path=lib/svc/share/net_include.sh mode=0444
624 file path=lib/svc/share/routing_include.sh mode=0444
625 file path=lib/svc/share/smf_include.sh mode=0444
626 file path=root/.bashrc group=root preserve=true
627 file path=root/.profile group=root preserve=true
628 file path=sbin/autopush mode=0555
629 $(i386_ONLY)file path=sbin/biosdev mode=0555
630 file path=sbin/bootadm mode=0555
631 file path=sbin/cryptoadm mode=0555
632 file path=sbin/devprop mode=0555
633 file path=sbin/dhcpagent mode=0555
634 file path=sbin/dhcpinfo mode=0555
635 file path=sbin/dlmgmt mode=0555
636 file path=sbin/fdisk mode=0555
637 file path=sbin/fiocompress mode=0555
638 file path=sbin/hostconfig mode=0555
639 file path=sbin/ifconfig mode=0555
640 file path=sbin/ifparse mode=0555
641 file path=sbin/init group=sys mode=0555
642 $(i386_ONLY)file path=sbin/installgrub group=sys mode=0555
643 file path=sbin/impstat mode=0555
644 file path=sbin/mount mode=0555
645 file path=sbin/mountall group=sys mode=0555
646 file path=sbin/netstrategy mode=0555
647 file path=sbin/rc0 group=sys mode=0744
648 file path=sbin/rc1 group=sys mode=0744
649 file path=sbin/rc2 group=sys mode=0744

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650 file path=sbin/rc3 group=sys mode=0744
651 file path=sbin/rcS group=sys mode=0744
652 file path=sbin/route mode=0555
653 file path=sbin/routeadm mode=0555
654 file path=sbin/soconfig mode=0555
655 file path=sbin/su.static group=sys mode=0555
656 file path=sbin/sulogin mode=0555
657 file path=sbin/swapadd group=sys mode=0744
658 file path=sbin/sync mode=0555
659 file path=sbin/tzreload mode=0555
660 file path=sbin/uadmin group=sys mode=0555
661 file path=sbin/umount mode=0555
662 file path=sbin/umountall group=sys mode=0555
663 file path=sbin/uname mode=0555
664 file path=sbin/zonename mode=0555
665 $(i386_ONLY)file path=usr/bin/$(ARCH32)/amt mode=0555
666 file path=usr/bin/$(ARCH32)/decrypt mode=0555
667 file path=usr/bin/$(ARCH32)/digest mode=0555
668 file path=usr/bin/$(ARCH32)/ksh93 mode=0555
669 $(i386_ONLY)file path=usr/bin/$(ARCH32)/newtask group=sys mode=4555
670 $(i386_ONLY)file path=usr/bin/$(ARCH32)/nohup mode=0555
671 $(i386_ONLY)file path=usr/bin/$(ARCH32)/prctl mode=0555
672 $(i386_ONLY)file path=usr/bin/$(ARCH32)/prstat mode=0555
673 $(i386_ONLY)file path=usr/bin/$(ARCH32)/ps mode=0555
674 file path=usr/bin/$(ARCH32)/savecore mode=0555
675 $(i386_ONLY)file path=usr/bin/$(ARCH32)/setuname mode=0555
676 $(i386_ONLY)file path=usr/bin/$(ARCH32)/uptime mode=4555
677 file path=usr/bin/$(ARCH64)/amt mode=0555
678 file path=usr/bin/$(ARCH64)/crle mode=0555
679 file path=usr/bin/$(ARCH64)/decrypt mode=0555
680 file path=usr/bin/$(ARCH64)/digest mode=0555
681 file path=usr/bin/$(ARCH64)/ksh93 mode=0555
682 file path=usr/bin/$(ARCH64)/ls mode=0555
683 file path=usr/bin/$(ARCH64)/moe mode=0555
684 file path=usr/bin/$(ARCH64)/newtask group=sys mode=4555
685 file path=usr/bin/$(ARCH64)/nohup mode=0555
686 file path=usr/bin/$(ARCH64)/prctl mode=0555
687 file path=usr/bin/$(ARCH64)/prstat mode=0555
688 file path=usr/bin/$(ARCH64)/ps mode=0555
689 file path=usr/bin/$(ARCH64)/savecore mode=0555
690 file path=usr/bin/$(ARCH64)/setuname mode=0555
691 file path=usr/bin/$(ARCH64)/uptime mode=4555
692 $(i386_ONLY)file path=usr/bin/addbadsec mode=0555
693 file path=usr/bin/alias mode=0555
694 file path=usr/bin/amt mode=0555
695 file path=usr/bin/arch mode=0555
696 file path=usr/bin/at group=sys mode=4755
697 file path=usr/bin/atq group=sys mode=4755
698 file path=usr/bin/atrm group=sys mode=4755
699 file path=usr/bin/auths mode=0555
700 file path=usr/bin/basename mode=0555
701 file path=usr/bin/busstat mode=0555
702 file path=usr/bin/captoinfo mode=0555
703 file path=usr/bin/cat mode=0555
704 file path=usr/bin/chgrp mode=0555
705 file path=usr/bin/chmod mode=0555
706 file path=usr/bin/chown mode=0555
707 file path=usr/bin/ckdate mode=0555
708 file path=usr/bin/ckgid mode=0555
709 file path=usr/bin/ckint mode=0555
710 file path=usr/bin/ckitem mode=0555
711 file path=usr/bin/ckkeywd mode=0555
712 file path=usr/bin/ckpath mode=0555
713 file path=usr/bin/ckrange mode=0555
714 file path=usr/bin/ckstr mode=0555
715 file path=usr/bin/cktime mode=0555

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716 file path=usr/bin/ckuid mode=0555
717 file path=usr/bin/ckyorn mode=0555
718 file path=usr/bin/clear mode=0555
719 file path=usr/bin/coreadm mode=0555
720 file path=usr/bin/cp mode=0555
721 file path=usr/bin/cpio mode=0555
722 file path=usr/bin/crle mode=0555
723 file path=usr/bin/crontab mode=4555
724 file path=usr/bin/crypt mode=0555
725 file path=usr/bin/csh mode=0555
726 file path=usr/bin/ctrunc mode=0555
727 file path=usr/bin/ctstat mode=0555
728 file path=usr/bin/ctwatch mode=0555
729 file path=usr/bin/date mode=0555
730 file path=usr/bin/dd mode=0555
731 file path=usr/bin/devattr mode=0555
732 file path=usr/bin/devfree mode=0555
733 file path=usr/bin/devreserv mode=0555
734 file path=usr/bin/dirname mode=0555
735 $(i386_ONLY)file path=usr/bin/diskscan mode=0555
736 file path=usr/bin/domainname mode=0555
737 file path=usr/bin/du mode=0555
738 file path=usr/bin/dumpcs mode=0555
739 file path=usr/bin/dumpkeys mode=0555
740 file path=usr/bin/echo mode=0555
741 file path=usr/bin/ed mode=0555
742 file path=usr/bin/egrep mode=0555
742 file path=usr/bin/eject mode=0555
743 file path=usr/bin/env mode=0555
744 file path=usr/bin/expr mode=0555
745 file path=usr/bin/false mode=0555
746 file path=usr/bin/fdetach mode=0555
747 file path=usr/bin/fdformat mode=4555
749 file path=usr/bin/fgrep mode=0555
748 file path=usr/bin/file mode=0555
749 file path=usr/bin/find mode=0555
750 file path=usr/bin/fmt mode=0555
751 file path=usr/bin/fmtmsg mode=0555
752 file path=usr/bin/fold mode=0555
753 file path=usr/bin/fsstat mode=0555
754 file path=usr/bin/geniconvtbl mode=0555
755 file path=usr/bin/getconf mode=0555
756 file path=usr/bin/getdev mode=0555
757 file path=usr/bin/getdgrp mode=0555
758 file path=usr/bin/getent mode=0555
759 file path=usr/bin/getfacl mode=0555
760 file path=usr/bin/getopt mode=0555
761 file path=usr/bin/gettext mode=0555
762 file path=usr/bin/getvol mode=0555
763 file path=usr/bin/grep mode=0555
764 file path=usr/bin/groups mode=0555
765 file path=usr/bin/head mode=0555
766 file path=usr/bin/hostid mode=0555
767 file path=usr/bin/hostname mode=0555
768 file path=usr/bin/iconv mode=0555
769 file path=usr/bin/id mode=0555
770 file path=usr/bin/infocmp mode=0555
771 file path=usr/bin/iostat mode=0555
772 file path=usr/bin/isainfo mode=0555
773 file path=usr/bin/isalist mode=0555
774 file path=usr/bin/kbd mode=0555
775 file path=usr/bin/keylogin mode=0555
776 file path=usr/bin/keylogout mode=0555
777 file path=usr/bin/kmfcfg mode=0555
778 file path=usr/bin/kvmstat mode=0555
779 file path=usr/bin/line mode=0555

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780 file path=usr/bin/listdgrp mode=0555
781 file path=usr/bin/listusers mode=0555
782 file path=usr/bin/loadkeys mode=0555
783 file path=usr/bin/logger mode=0555
784 file path=usr/bin/login mode=4555
785 file path=usr/bin/logins mode=0750
786 file path=usr/bin/ls mode=0555
787 file path=usr/bin/m4 mode=0555
788 file path=usr/bin/mach mode=0555
789 file path=usr/bin/mail group=mail mode=2511
790 file path=usr/bin/mailx group=mail mode=2511
791 file path=usr/bin/makedev mode=0555
792 file path=usr/bin/mesg mode=0555
793 file path=usr/bin/mkdir mode=0555
794 file path=usr/bin/mkpwdict mode=0555
795 file path=usr/bin/mktemp mode=0555
796 file path=usr/bin/moe mode=0555
797 file path=usr/bin/more mode=0555
798 file path=usr/bin/mpstat mode=0555
799 file path=usr/bin/mt mode=0555
800 file path=usr/bin/netstat mode=0555
801 file path=usr/bin/newgrp group=sys mode=4755
802 file path=usr/bin/nice mode=0555
803 file path=usr/bin/optisa mode=0555
804 file path=usr/bin/pagesize mode=0555
805 file path=usr/bin/passwd group=sys mode=6555
806 file path=usr/bin/pathchk mode=0555
807 file path=usr/bin/pax mode=0555
808 file path=usr/bin/pfexec mode=0555
809 file path=usr/bin/pg mode=0555
810 file path=usr/bin/pgrep mode=0555
811 file path=usr/bin/pktool mode=0555
812 file path=usr/bin/pr mode=0555
813 file path=usr/bin/printf mode=0555
814 file path=usr/bin/priocntl mode=0555
815 file path=usr/bin/profiles mode=0555
816 file path=usr/bin/projects mode=0555
817 file path=usr/bin/putdev mode=0555
818 file path=usr/bin/putdgrp mode=0555
819 file path=usr/bin/pwd mode=0555
820 file path=usr/bin/renice mode=0555
821 file path=usr/bin/rm mode=0555
822 file path=usr/bin/rmdir mode=0555
823 file path=usr/bin/roles mode=0555
824 file path=usr/bin/rpcinfo mode=0555
825 file path=usr/bin/runat mode=0555
826 file path=usr/bin/script mode=0555
827 file path=usr/bin/sed mode=0555
828 file path=usr/bin/setfacl mode=0555
829 file path=usr/bin/setpgrp group=sys mode=0555
830 file path=usr/bin/settime mode=0555
831 file path=usr/bin/shcomp mode=0555
832 file path=usr/bin/strchg group=root mode=0555
833 file path=usr/bin/strconf group=root mode=0555
834 file path=usr/bin/stty mode=0555
835 file path=usr/bin/su group=sys mode=4555
836 file path=usr/bin/svcprop mode=0555
837 file path=usr/bin/svcs mode=0555
838 file path=usr/bin/tabs mode=0555
839 file path=usr/bin/tail mode=0555
840 file path=usr/bin/tic mode=0555
841 file path=usr/bin/time mode=0555
842 file path=usr/bin/tip mode=4511 owner=uucp
843 file path=usr/bin/tpmadm mode=0555
844 file path=usr/bin/tput mode=0555
845 file path=usr/bin/tr mode=0555

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846 file path=usr/bin/true mode=0555
847 file path=usr/bin/tty mode=0555
848 file path=usr/bin/tzselect mode=0555
849 file path=usr/bin/userattr mode=0555
850 file path=usr/bin/uuidgen mode=0555
851 file path=usr/bin/vmstat mode=0555
852 file path=usr/bin/vtfontcvt mode=0555
853 file path=usr/bin/which mode=0555
854 file path=usr/bin/who mode=0555
855 file path=usr/bin/wracct mode=0555
856 file path=usr/bin/write group=tty mode=2555
857 file path=usr/bin/xargs mode=0555
858 file path=usr/bin/xstr mode=0555
859 file path=usr/has/bin/edit mode=0555
860 file path=usr/has/bin/sh mode=0555
861 file path=usr/has/man/manlhas/edit.lhas
862 file path=usr/has/man/manlhas/ex.lhas
863 file path=usr/has/man/manlhas/sh.lhas
864 file path=usr/has/man/manlhas/vi.lhas
865 file path=usr/kernel/drv/${ARCH64}/dump group=sys
866 file path=usr/kernel/drv/${ARCH64}/eventfd group=sys
867 file path=usr/kernel/drv/${ARCH64}/fssnap group=sys
868 file path=usr/kernel/drv/${ARCH64}/kstat group=sys
869 file path=usr/kernel/drv/${ARCH64}/ksyms group=sys
870 file path=usr/kernel/drv/${ARCH64}/logindmux group=sys
871 file path=usr/kernel/drv/${ARCH64}/ptm group=sys
872 file path=usr/kernel/drv/${ARCH64}/pts group=sys
873 file path=usr/kernel/drv/${ARCH64}/timerfd group=sys
874 ${i386_ONLY}file path=usr/kernel/drv/dump group=sys
875 file path=usr/kernel/drv/dump.conf group=sys
876 ${i386_ONLY}file path=usr/kernel/drv/eventfd group=sys
877 file path=usr/kernel/drv/eventfd.conf group=sys
878 ${i386_ONLY}file path=usr/kernel/drv/fssnap group=sys
879 file path=usr/kernel/drv/fssnap.conf group=sys
880 ${i386_ONLY}file path=usr/kernel/drv/kstat group=sys
881 file path=usr/kernel/drv/kstat.conf group=sys
882 ${i386_ONLY}file path=usr/kernel/drv/ksyms group=sys
883 file path=usr/kernel/drv/ksyms.conf group=sys
884 ${i386_ONLY}file path=usr/kernel/drv/logindmux group=sys
885 file path=usr/kernel/drv/logindmux.conf group=sys
886 ${i386_ONLY}file path=usr/kernel/drv/ptm group=sys
887 file path=usr/kernel/drv/ptm.conf group=sys
888 ${i386_ONLY}file path=usr/kernel/drv/pts group=sys
889 file path=usr/kernel/drv/pts.conf group=sys
890 ${i386_ONLY}file path=usr/kernel/drv/timerfd group=sys
891 file path=usr/kernel/drv/timerfd.conf group=sys
892 file path=usr/kernel/exec/${ARCH64}/javaexec group=sys mode=0755
893 file path=usr/kernel/exec/${ARCH64}/shbinexec group=sys mode=0755
894 ${i386_ONLY}file path=usr/kernel/exec/javaexec group=sys mode=0755
895 ${i386_ONLY}file path=usr/kernel/exec/shbinexec group=sys mode=0755
896 file path=usr/kernel/fs/${ARCH64}/fdfs group=sys mode=0755
897 file path=usr/kernel/fs/${ARCH64}/pcfs group=sys mode=0755
898 ${i386_ONLY}file path=usr/kernel/fs/fdfs group=sys mode=0755
899 ${i386_ONLY}file path=usr/kernel/fs/pcfs group=sys mode=0755
900 file path=usr/kernel/sched/${ARCH64}/FX group=sys mode=0755
901 file path=usr/kernel/sched/${ARCH64}/FX_DPTBL group=sys mode=0755
902 file path=usr/kernel/sched/${ARCH64}/IA group=sys mode=0755
903 file path=usr/kernel/sched/${ARCH64}/RT group=sys mode=0755
904 file path=usr/kernel/sched/${ARCH64}/RT_DPTBL group=sys mode=0755
905 ${i386_ONLY}file path=usr/kernel/sched/FX group=sys mode=0755
906 ${i386_ONLY}file path=usr/kernel/sched/FX_DPTBL group=sys mode=0755
907 ${i386_ONLY}file path=usr/kernel/sched/IA group=sys mode=0755
908 ${i386_ONLY}file path=usr/kernel/sched/RT group=sys mode=0755
909 ${i386_ONLY}file path=usr/kernel/sched/RT_DPTBL group=sys mode=0755
910 file path=usr/kernel/strmod/${ARCH64}/cryptmod group=sys mode=0755
911 file path=usr/kernel/strmod/${ARCH64}/rlmod group=sys mode=0755

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912 file path=usr/kernel/strmod/$(ARCH64)/telmod group=sys mode=0755
913 $(i386_ONLY)file path=usr/kernel/strmod/cryptmod group=sys mode=0755
914 $(i386_ONLY)file path=usr/kernel/strmod/rlmod group=sys mode=0755
915 $(i386_ONLY)file path=usr/kernel/strmod/telmod group=sys mode=0755
916 file path=usr/kernel/sys/$(ARCH64)/acctctl group=sys mode=0755
917 file path=usr/kernel/sys/$(ARCH64)/exacctsys group=sys mode=0755
918 file path=usr/kernel/sys/$(ARCH64)/sysacct group=sys mode=0755
919 $(i386_ONLY)file path=usr/kernel/sys/acctctl group=sys mode=0755
920 $(i386_ONLY)file path=usr/kernel/sys/exacctsys group=sys mode=0755
921 $(i386_ONLY)file path=usr/kernel/sys/sysacct group=sys mode=0755
922 file path=usr/kvm/README group=sys
923 file path=usr/lib/$(ARCH64)/libshare.so.1
924 file path=usr/lib/audit/audit_record_attr mode=0444
925 file path=usr/lib/class/FX/FXdispadmin mode=0555
926 file path=usr/lib/class/FX/FXprioctl mode=0555
927 file path=usr/lib/class/IA/IADispadmin mode=0555
928 file path=usr/lib/class/IA/IAprioctl mode=0555
929 file path=usr/lib/class/RT/RTdispadmin mode=0555
930 file path=usr/lib/class/RT/RTprioctl mode=0555
931 file path=usr/lib/class/SDC/SDCdispadmin mode=0555
932 file path=usr/lib/class/SDC/SDCprioctl mode=0555
933 file path=usr/lib/class/TS/TSdispadmin mode=0555
934 file path=usr/lib/class/TS/TSprioctl mode=0555
935 file path=usr/lib/devfsadm/linkmod/SUNW_audio_link.so group=sys
936 file path=usr/lib/devfsadm/linkmod/SUNW_cfg_link.so group=sys
937 file path=usr/lib/devfsadm/linkmod/SUNW_disk_link.so group=sys
938 file path=usr/lib/devfsadm/linkmod/SUNW_fssnap_link.so group=sys
939 file path=usr/lib/devfsadm/linkmod/SUNW_ieee1394_link.so group=sys
940 file path=usr/lib/devfsadm/linkmod/SUNW_lofi_link.so group=sys
941 file path=usr/lib/devfsadm/linkmod/SUNW_misc_link.so group=sys
942 file path=usr/lib/devfsadm/linkmod/SUNW_misc_link.$(ARCH).so group=sys
943 file path=usr/lib/devfsadm/linkmod/SUNW_port_link.so group=sys
944 file path=usr/lib/devfsadm/linkmod/SUNW_ramdisk_link.so group=sys
945 file path=usr/lib/devfsadm/linkmod/SUNW_sgen_link.so group=sys
946 file path=usr/lib/devfsadm/linkmod/SUNW_smp_link.so group=sys
947 file path=usr/lib/devfsadm/linkmod/SUNW_tape_link.so group=sys
948 file path=usr/lib/devfsadm/linkmod/SUNW_usb_link.so group=sys
949 $(i386_ONLY)file path=usr/lib/devfsadm/linkmod/SUNW_xen_link.so group=sys
950 file path=usr/lib/diffh mode=0555
951 file path=usr/lib/expreserve mode=0555
952 file path=usr/lib/exrecovery mode=0555
953 file path=usr/lib/fs/bootfs/mount mode=0555
954 file path=usr/lib/fs/ctfs/mount mode=0555
955 file path=usr/lib/fs/fd/mount mode=0555
956 file path=usr/lib/fs/hsfs/fstyp.so.1 mode=0555
957 file path=usr/lib/fs/hsfs/labelit mode=0555
958 file path=usr/lib/fs/lofs/mount mode=0555
959 file path=usr/lib/fs/mntfs/mount mode=0555
960 file path=usr/lib/fs/objfs/mount mode=0555
961 file path=usr/lib/fs/proc/mount mode=0555
962 file path=usr/lib/fs/shares/mount mode=0555
963 file path=usr/lib/fs/tmpfs/mount mode=0555
964 file path=usr/lib/fs/ufs/clri mode=0555
965 file path=usr/lib/fs/ufs/df mode=0555
966 file path=usr/lib/fs/ufs/edquota mode=0555
967 file path=usr/lib/fs/ufs/ff mode=0555
968 file path=usr/lib/fs/ufs/fsck mode=0555
969 file path=usr/lib/fs/ufs/fsckall mode=0555
970 file path=usr/lib/fs/ufs/fsdb mode=0555
971 file path=usr/lib/fs/ufs/fsirand mode=0555
972 file path=usr/lib/fs/ufs/fssnap mode=0555
973 file path=usr/lib/fs/ufs/fstyp.so.1 mode=0555
974 file path=usr/lib/fs/ufs/labelit mode=0555
975 file path=usr/lib/fs/ufs/lockfs mode=0555
976 file path=usr/lib/fs/ufs/mkfs mode=0555
977 file path=usr/lib/fs/ufs/ncheck mode=0555

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978 file path=usr/lib/fs/ufs/newfs mode=0555
979 file path=usr/lib/fs/ufs/quot mode=0555
980 file path=usr/lib/fs/ufs/quota mode=4555
981 file path=usr/lib/fs/ufs/quotacheck mode=0555
982 file path=usr/lib/fs/ufs/quotaoff mode=0555
983 file path=usr/lib/fs/ufs/repquota mode=0555
984 file path=usr/lib/fs/ufs/tunefs mode=0555
985 file path=usr/lib/fs/ufs/ufsdump mode=4555
986 file path=usr/lib/fs/ufs/ufsrestore mode=4555
987 file path=usr/lib/fs/ufs/volcopy mode=0555
988 file path=usr/lib/getoptcvt mode=0555
989 file path=usr/lib/help/auths/locale/C/AllSolAuthsHeader.html
990 file path=usr/lib/help/auths/locale/C/AuditHeader.html
991 file path=usr/lib/help/auths/locale/C/AuthJobsAdmin.html
992 file path=usr/lib/help/auths/locale/C/AuthJobsUser.html
993 file path=usr/lib/help/auths/locale/C/AuthProfmgrAssign.html
994 file path=usr/lib/help/auths/locale/C/AuthProfmgrDelegate.html
995 file path=usr/lib/help/auths/locale/C/AuthProfmgrExecattrWrite.html
996 file path=usr/lib/help/auths/locale/C/AuthProfmgrRead.html
997 file path=usr/lib/help/auths/locale/C/AuthProfmgrWrite.html
998 file path=usr/lib/help/auths/locale/C/AuthReadNDMP.html
999 file path=usr/lib/help/auths/locale/C/AuthReadSMB.html
1000 file path=usr/lib/help/auths/locale/C/AuthRoleAssign.html
1001 file path=usr/lib/help/auths/locale/C/AuthRoleDelegate.html
1002 file path=usr/lib/help/auths/locale/C/AuthRoleWrite.html
1003 file path=usr/lib/help/auths/locale/C/BindStates.html
1004 file path=usr/lib/help/auths/locale/C/DevAllocHeader.html
1005 file path=usr/lib/help/auths/locale/C/DevAllocate.html
1006 file path=usr/lib/help/auths/locale/C/DevConfig.html
1007 file path=usr/lib/help/auths/locale/C/DevGrant.html
1008 file path=usr/lib/help/auths/locale/C/DevRevoke.html
1009 file path=usr/lib/help/auths/locale/C/DhccpMgrHeader.html
1010 file path=usr/lib/help/auths/locale/C/DhccpMgrWrite.html
1011 file path=usr/lib/help/auths/locale/C/HotplugHeader.html
1012 file path=usr/lib/help/auths/locale/C/HotplugModify.html
1013 file path=usr/lib/help/auths/locale/C/IdmapRules.html
1014 file path=usr/lib/help/auths/locale/C/JobHeader.html
1015 file path=usr/lib/help/auths/locale/C/JobGrant.html
1016 file path=usr/lib/help/auths/locale/C/LinkSecurity.html
1017 file path=usr/lib/help/auths/locale/C/LoginEnable.html
1018 file path=usr/lib/help/auths/locale/C/LoginHeader.html
1019 file path=usr/lib/help/auths/locale/C/LoginRemote.html
1020 file path=usr/lib/help/auths/locale/C/NetworkAutoconfRead.html
1021 file path=usr/lib/help/auths/locale/C/NetworkAutoconfSelect.html
1022 file path=usr/lib/help/auths/locale/C/NetworkAutoconfWlan.html
1023 file path=usr/lib/help/auths/locale/C/NetworkAutoconfWrite.html
1024 file path=usr/lib/help/auths/locale/C/NetworkHeader.html
1025 file path=usr/lib/help/auths/locale/C/NetworkILBconf.html
1026 file path=usr/lib/help/auths/locale/C/NetworkILBenable.html
1027 file path=usr/lib/help/auths/locale/C/NetworkInterfaceConfig.html
1028 file path=usr/lib/help/auths/locale/C/NetworkVRRP.html
1029 file path=usr/lib/help/auths/locale/C/PriAdmin.html
1030 file path=usr/lib/help/auths/locale/C/ProfmgrHeader.html
1031 file path=usr/lib/help/auths/locale/C/RoleHeader.html
1032 file path=usr/lib/help/auths/locale/C/SmfAllocate.html
1033 file path=usr/lib/help/auths/locale/C/SmfAutofsStates.html
1034 file path=usr/lib/help/auths/locale/C/SmfCoreadmStates.html
1035 file path=usr/lib/help/auths/locale/C/SmfCronStates.html
1036 file path=usr/lib/help/auths/locale/C/SmfExacctFlowStates.html
1037 file path=usr/lib/help/auths/locale/C/SmfExacctNetStates.html
1038 file path=usr/lib/help/auths/locale/C/SmfExacctProcessStates.html
1039 file path=usr/lib/help/auths/locale/C/SmfExacctTaskStates.html
1040 file path=usr/lib/help/auths/locale/C/SmfHeader.html
1041 file path=usr/lib/help/auths/locale/C/SmfILBStates.html
1042 file path=usr/lib/help/auths/locale/C/SmfIPsecStates.html
1043 file path=usr/lib/help/auths/locale/C/SmfIdmapStates.html

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1044 file path=usr/lib/help/auths/locale/C/SmfInetdStates.html
 1045 file path=usr/lib/help/auths/locale/C/SmfLocationStates.html
 1046 file path=usr/lib/help/auths/locale/C/SmfMDDNSStates.html
 1047 file path=usr/lib/help/auths/locale/C/SmfManageAudit.html
 1048 file path=usr/lib/help/auths/locale/C/SmfManageHeader.html
 1049 file path=usr/lib/help/auths/locale/C/SmfManageHotplug.html
 1050 file path=usr/lib/help/auths/locale/C/SmfManageZFSNap.html
 1051 file path=usr/lib/help/auths/locale/C/SmfModifyAppl.html
 1052 file path=usr/lib/help/auths/locale/C/SmfModifyDepend.html
 1053 file path=usr/lib/help/auths/locale/C/SmfModifyFramework.html
 1054 file path=usr/lib/help/auths/locale/C/SmfModifyHeader.html
 1055 file path=usr/lib/help/auths/locale/C/SmfModifyMethod.html
 1056 file path=usr/lib/help/auths/locale/C/SmfNADDStates.html
 1057 file path=usr/lib/help/auths/locale/C/SmfNDMPStates.html
 1058 file path=usr/lib/help/auths/locale/C/SmfNWAMStates.html
 1059 file path=usr/lib/help/auths/locale/C/SmfNscdStates.html
 1060 file path=usr/lib/help/auths/locale/C/SmfPowerStates.html
 1061 file path=usr/lib/help/auths/locale/C/SmfReparseStates.html
 1062 file path=usr/lib/help/auths/locale/C/SmfRoutingStates.html
 1063 file path=usr/lib/help/auths/locale/C/SmfSMBFSStates.html
 1064 file path=usr/lib/help/auths/locale/C/SmfSMBStates.html
 1065 file path=usr/lib/help/auths/locale/C/SmfSendmailStates.html
 1066 file path=usr/lib/help/auths/locale/C/SmfSshStates.html
 1067 file path=usr/lib/help/auths/locale/C/SmfSyslogStates.html
 1068 file path=usr/lib/help/auths/locale/C/SmfVRRPStates.html
 1069 file path=usr/lib/help/auths/locale/C/SmfValueAudit.html
 1070 file path=usr/lib/help/auths/locale/C/SmfValueCoreadm.html
 1071 file path=usr/lib/help/auths/locale/C/SmfValueExAcctFlow.html
 1072 file path=usr/lib/help/auths/locale/C/SmfValueExAcctNet.html
 1073 file path=usr/lib/help/auths/locale/C/SmfValueExAcctProcess.html
 1074 file path=usr/lib/help/auths/locale/C/SmfValueExAcctTask.html
 1075 file path=usr/lib/help/auths/locale/C/SmfValueFirewall.html
 1076 file path=usr/lib/help/auths/locale/C/SmfValueHeader.html
 1077 file path=usr/lib/help/auths/locale/C/SmfValueIPsec.html
 1078 file path=usr/lib/help/auths/locale/C/SmfValueIdmap.html
 1079 file path=usr/lib/help/auths/locale/C/SmfValueinetd.html
 1080 file path=usr/lib/help/auths/locale/C/SmfValueMDNS.html
 1081 file path=usr/lib/help/auths/locale/C/SmfValueNADD.html
 1082 file path=usr/lib/help/auths/locale/C/SmfValueNDMP.html
 1083 file path=usr/lib/help/auths/locale/C/SmfValueNWAM.html
 1084 file path=usr/lib/help/auths/locale/C/SmfValueProcSec.html
 1085 file path=usr/lib/help/auths/locale/C/SmfValueRouting.html
 1086 file path=usr/lib/help/auths/locale/C/SmfValueSMB.html
 1087 file path=usr/lib/help/auths/locale/C/SmfValueVscan.html
 1088 file path=usr/lib/help/auths/locale/C/SmfValueVt.html
 1089 file path=usr/lib/help/auths/locale/C/SmfVscanStates.html
 1090 file path=usr/lib/help/auths/locale/C/SmfVtStates.html
 1091 file path=usr/lib/help/auths/locale/C/SmfWpaStates.html
 1092 file path=usr/lib/help/auths/locale/C/SysCpuPowerMgmt.html
 1093 file path=usr/lib/help/auths/locale/C/SysDate.html
 1094 file path=usr/lib/help/auths/locale/C/SysHeader.html
 1095 file path=usr/lib/help/auths/locale/C/SysMaintenance.html
 1096 file path=usr/lib/help/auths/locale/C/SysPowerMgmtBrightness.html
 1097 file path=usr/lib/help/auths/locale/C/SysPowerMgmtHeader.html
 1098 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspend.html
 1099 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspendtoDisk.html
 1100 file path=usr/lib/help/auths/locale/C/SysPowerMgmtSuspendtoRAM.html
 1101 file path=usr/lib/help/auths/locale/C/SysShutdown.html
 1102 file path=usr/lib/help/auths/locale/C/SysSyseventRead.html
 1103 file path=usr/lib/help/auths/locale/C/SysSyseventWrite.html
 1104 file path=usr/lib/help/auths/locale/C/WifiConfig.html
 1105 file path=usr/lib/help/auths/locale/C/WifiWep.html
 1106 file path=usr/lib/help/auths/locale/C/ZoneCloneFrom.html
 1107 file path=usr/lib/help/auths/locale/C/ZoneHeader.html
 1108 file path=usr/lib/help/auths/locale/C/ZoneLogin.html
 1109 file path=usr/lib/help/auths/locale/C/ZoneManage.html

1110 file path=usr/lib/help/profiles/locale/C/RtAcctadm.html
 1111 file path=usr/lib/help/profiles/locale/C/RtAll.html
 1112 file path=usr/lib/help/profiles/locale/C/RtAuditCfg.html
 1113 file path=usr/lib/help/profiles/locale/C/RtAuditCtrl.html
 1114 file path=usr/lib/help/profiles/locale/C/RtAuditReview.html
 1115 file path=usr/lib/help/profiles/locale/C/RtCPUPowerManagement.html
 1116 file path=usr/lib/help/profiles/locale/C/RtConsUser.html
 1117 file path=usr/lib/help/profiles/locale/C/RtContractObserver.html
 1118 file path=usr/lib/help/profiles/locale/C/RtCronMngmnt.html
 1119 file path=usr/lib/help/profiles/locale/C/RtCryptoMngmnt.html
 1120 file path=usr/lib/help/profiles/locale/C/RtDHCPMngmnt.html
 1121 file path=usr/lib/help/profiles/locale/C/RtDatAdmin.html
 1122 file path=usr/lib/help/profiles/locale/C/RtDefault.html
 1123 file path=usr/lib/help/profiles/locale/C/RtDeviceMngmnt.html
 1124 file path=usr/lib/help/profiles/locale/C/RtDeviceSecurity.html
 1125 file path=usr/lib/help/profiles/locale/C/RtExAcctFlow.html
 1126 file path=usr/lib/help/profiles/locale/C/RtExAcctNet.html
 1127 file path=usr/lib/help/profiles/locale/C/RtExAcctProcess.html
 1128 file path=usr/lib/help/profiles/locale/C/RtExAcctTask.html
 1129 file path=usr/lib/help/profiles/locale/C/RtFTPMngmnt.html
 1130 file path=usr/lib/help/profiles/locale/C/RtFileSysMngmnt.html
 1131 file path=usr/lib/help/profiles/locale/C/RtFileSysSecurity.html
 1132 file path=usr/lib/help/profiles/locale/C/RtHotplugMngmnt.html
 1133 file path=usr/lib/help/profiles/locale/C/RtIPFilterMngmnt.html
 1134 file path=usr/lib/help/profiles/locale/C/RtIdmapMngmnt.html
 1135 file path=usr/lib/help/profiles/locale/C/RtIdmapNameRulesMngmnt.html
 1136 file path=usr/lib/help/profiles/locale/C/RtInetdMngmnt.html
 1137 file path=usr/lib/help/profiles/locale/C/RtKerberosCltMngmnt.html
 1138 file path=usr/lib/help/profiles/locale/C/RtKerberosSrvrMngmnt.html
 1139 file path=usr/lib/help/profiles/locale/C/RtLogMngmnt.html
 1140 file path=usr/lib/help/profiles/locale/C/RtMailMngmnt.html
 1141 file path=usr/lib/help/profiles/locale/C/RtMaintAndRepair.html
 1142 file path=usr/lib/help/profiles/locale/C/RtMediaBkup.html
 1143 file path=usr/lib/help/profiles/locale/C/RtMediaCtlg.html
 1144 file path=usr/lib/help/profiles/locale/C/RtMediaRestore.html
 1145 file path=usr/lib/help/profiles/locale/C/RtNDMPMngmnt.html
 1146 file path=usr/lib/help/profiles/locale/C/RtNameServiceAdmin.html
 1147 file path=usr/lib/help/profiles/locale/C/RtNameServiceSecure.html
 1148 file path=usr/lib/help/profiles/locale/C/RtNetAutoconfAdmin.html
 1149 file path=usr/lib/help/profiles/locale/C/RtNetAutoconfUser.html
 1150 file path=usr/lib/help/profiles/locale/C/RtNetILB.html
 1151 file path=usr/lib/help/profiles/locale/C/RtNetIPsec.html
 1152 file path=usr/lib/help/profiles/locale/C/RtNetLinkSecure.html
 1153 file path=usr/lib/help/profiles/locale/C/RtNetMngmnt.html
 1154 file path=usr/lib/help/profiles/locale/C/RtNetObservability.html
 1155 file path=usr/lib/help/profiles/locale/C/RtNetSecure.html
 1156 file path=usr/lib/help/profiles/locale/C/RtNetVRRP.html
 1157 file path=usr/lib/help/profiles/locale/C/RtNetWifiMngmnt.html
 1158 file path=usr/lib/help/profiles/locale/C/RtNetWifiSecure.html
 1159 file path=usr/lib/help/profiles/locale/C/RtObAccessMngmnt.html
 1160 file path=usr/lib/help/profiles/locale/C/RtOperator.html
 1161 file path=usr/lib/help/profiles/locale/C/RtPriAdmin.html
 1162 file path=usr/lib/help/profiles/locale/C/RtPrntAdmin.html
 1163 file path=usr/lib/help/profiles/locale/C/RtProcManagement.html
 1164 file path=usr/lib/help/profiles/locale/C/RtReparseMngmnt.html
 1165 file path=usr/lib/help/profiles/locale/C/RtReservedProfile.html
 1166 file path=usr/lib/help/profiles/locale/C/RtRightsDelegate.html
 1167 file path=usr/lib/help/profiles/locale/C/RtSMBFSMngmnt.html
 1168 file path=usr/lib/help/profiles/locale/C/RtSMBMngmnt.html
 1169 file path=usr/lib/help/profiles/locale/C/RtSoftwareInstall.html
 1170 file path=usr/lib/help/profiles/locale/C/RtSysAdmin.html
 1171 file path=usr/lib/help/profiles/locale/C/RtSysEvMngmnt.html
 1172 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmt.html
 1173 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtBrightness.html
 1174 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspend.html
 1175 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspendtoDisk.html

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1176 file path=usr/lib/help/profiles/locale/C/RtSysPowerMgmtSuspendtoRAM.html
1177 file path=usr/lib/help/profiles/locale/C/RtUserMngmnt.html
1178 file path=usr/lib/help/profiles/locale/C/RtUserSecurity.html
1179 file path=usr/lib/help/profiles/locale/C/RtVscanMngmnt.html
1180 file path=usr/lib/help/profiles/locale/C/RtZFSFileSysMngmnt.html
1181 file path=usr/lib/help/profiles/locale/C/RtZFSStorageMngmnt.html
1182 file path=usr/lib/help/profiles/locale/C/RtZoneMngmnt.html
1183 file path=usr/lib/help/profiles/locale/C/RtZoneSecurity.html
1184 file path=usr/lib/help/profiles/locale/C/RtZoneSecurity.html
1185 file path=usr/lib/iconv/646da.8859.t mode=0444
1186 file path=usr/lib/iconv/646de.8859.t mode=0444
1187 file path=usr/lib/iconv/646en.8859.t mode=0444
1188 file path=usr/lib/iconv/646es.8859.t mode=0444
1189 file path=usr/lib/iconv/646fr.8859.t mode=0444
1190 file path=usr/lib/iconv/646it.8859.t mode=0444
1191 file path=usr/lib/iconv/646sv.8859.t mode=0444
1192 file path=usr/lib/iconv/8859.646.t mode=0444
1193 file path=usr/lib/iconv/8859.646da.t mode=0444
1194 file path=usr/lib/iconv/8859.646de.t mode=0444
1195 file path=usr/lib/iconv/8859.646en.t mode=0444
1196 file path=usr/lib/iconv/8859.646es.t mode=0444
1197 file path=usr/lib/iconv/8859.646fr.t mode=0444
1198 file path=usr/lib/iconv/8859.646it.t mode=0444
1199 file path=usr/lib/iconv/8859.646sv.t mode=0444
1200 file path=usr/lib/iconv/iconv_data mode=0444
1201 file path=usr/lib/idmapd mode=0555
1202 file path=usr/lib/inet/${ARCH32}/in.iked mode=0555
1203 file path=usr/lib/inet/${ARCH64}/in.iked mode=0555
1204 file path=usr/lib/inet/certdb mode=0555
1205 file path=usr/lib/inet/certlocal mode=0555
1206 file path=usr/lib/inet/certrldb mode=0555
1207 file path=usr/lib/inet/inetd mode=0555
1208 file path=usr/lib/intrd mode=0555
1209 file path=usr/lib/isaexec mode=0555
1210 file path=usr/lib/kssldm mode=0555
1211 $(sparc_ONLY)file path=usr/lib/ld.so
1212 file path=usr/lib/libshare.so.1
1213 file path=usr/lib/makekey mode=0555
1214 file path=usr/lib/more.help
1215 file path=usr/lib/newsyslog group=sys mode=0555
1216 file path=usr/lib/passmgmt group=sys mode=0555
1217 file path=usr/lib/pci/pcidr mode=0555
1218 file path=usr/lib/pci/pcidr_plugin.so
1219 file path=usr/lib/pfexecd mode=0555
1220 file path=usr/lib/platexec mode=0555
1221 file path=usr/lib/rcm/modules/SUNW_aggr_rcm.so mode=0555
1222 file path=usr/lib/rcm/modules/SUNW_cluster_rcm.so mode=0555
1223 file path=usr/lib/rcm/modules/SUNW_dump_rcm.so mode=0555
1224 file path=usr/lib/rcm/modules/SUNW_filesys_rcm.so mode=0555
1225 file path=usr/lib/rcm/modules/SUNW_ibpart_rcm.so mode=0555
1226 file path=usr/lib/rcm/modules/SUNW_ip_anon_rcm.so mode=0555
1227 file path=usr/lib/rcm/modules/SUNW_ip_rcm.so mode=0555
1228 file path=usr/lib/rcm/modules/SUNW_mpxio_rcm.so mode=0555
1229 file path=usr/lib/rcm/modules/SUNW_network_rcm.so mode=0555
1230 file path=usr/lib/rcm/modules/SUNW_swap_rcm.so mode=0555
1231 $(sparc_ONLY)file path=usr/lib/rcm/modules/SUNW_ttymux_rcm.so mode=0555
1232 file path=usr/lib/rcm/modules/SUNW_vlan_rcm.so mode=0555
1233 file path=usr/lib/rcm/modules/SUNW_vnic_rcm.so mode=0555
1234 file path=usr/lib/rcm/rcm_daemon mode=0555
1235 file path=usr/lib/reparse/reparsed group=sys mode=0555
1236 file path=usr/lib/saf/listen group=sys mode=0755
1237 file path=usr/lib/saf/nlps_server group=sys mode=0755
1238 file path=usr/lib/saf/sac group=sys mode=0555
1239 file path=usr/lib/saf/ttymon group=sys mode=0555
1240 file path=usr/lib/sysevent/modules/datalink_mod.so
1241 file path=usr/lib/sysevent/modules/devfsadm_mod.so

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1242 file path=usr/lib/sysevent/modules/sysevent_conf_mod.so
1243 file path=usr/lib/sysevent/modules/sysevent_reg_mod.so
1244 file path=usr/lib/sysevent/syseventconfd mode=0555
1245 file path=usr/lib/sysevent/syseventd mode=0555
1246 file path=usr/lib/utmp_update mode=4555
1247 file path=usr/lib/utmpd mode=0555
1248 file path=usr/lib/vtdaemon mode=0555
1249 file path=usr/lib/vtinfo mode=0555
1250 file path=usr/lib/vtxlock mode=0555
1251 file path=usr/sadm/bin/puttext mode=0555
1252 file path=usr/sadm/install/miniroot.db group=sys mode=0444
1253 file path=usr/sadm/install/scripts/i.ipsecalgs group=sys mode=0555
1254 file path=usr/sadm/install/scripts/i.kcfconf group=sys mode=0555
1255 file path=usr/sadm/install/scripts/i.kmfconf group=sys mode=0555
1256 file path=usr/sadm/install/scripts/i.manifest group=sys mode=0555
1257 file path=usr/sadm/install/scripts/i.pkcs11conf group=sys mode=0555
1258 file path=usr/sadm/install/scripts/i.rbac group=sys mode=0555
1259 file path=usr/sadm/install/scripts/r.ipsecalgs group=sys mode=0555
1260 file path=usr/sadm/install/scripts/r.kcfconf group=sys mode=0555
1261 file path=usr/sadm/install/scripts/r.kmfconf group=sys mode=0555
1262 file path=usr/sadm/install/scripts/r.manifest group=sys mode=0555
1263 file path=usr/sadm/install/scripts/r.pkcs11conf group=sys mode=0555
1264 file path=usr/sadm/install/scripts/r.rbac group=sys mode=0555
1265 file path=usr/sadm/updates mode=0444
1266 $(i386_ONLY)file path=usr/sbin/${ARCH32}/add_drv group=sys mode=0555
1267 $(i386_ONLY)file path=usr/sbin/${ARCH32}/modinfo group=sys mode=0555
1268 $(i386_ONLY)file path=usr/sbin/${ARCH32}/modload group=sys mode=0555
1269 $(i386_ONLY)file path=usr/sbin/${ARCH32}/modunload group=sys mode=0555
1270 $(i386_ONLY)file path=usr/sbin/${ARCH32}/pbind group=sys mode=0555
1271 $(i386_ONLY)file path=usr/sbin/${ARCH32}/prtconf group=sys mode=2555
1272 $(i386_ONLY)file path=usr/sbin/${ARCH32}/psrset group=sys mode=0555
1273 $(i386_ONLY)file path=usr/sbin/${ARCH32}/rem_drv group=sys mode=0555
1274 $(i386_ONLY)file path=usr/sbin/${ARCH32}/swap group=sys mode=2555
1275 $(i386_ONLY)file path=usr/sbin/${ARCH32}/sysdef group=sys mode=2555
1276 $(i386_ONLY)file path=usr/sbin/${ARCH32}/update_drv group=sys mode=0555
1277 $(i386_ONLY)file path=usr/sbin/${ARCH32}/whodo mode=4555
1278 file path=usr/sbin/${ARCH64}/add_drv group=sys mode=0555
1279 file path=usr/sbin/${ARCH64}/modinfo group=sys mode=0555
1280 file path=usr/sbin/${ARCH64}/modload group=sys mode=0555
1281 file path=usr/sbin/${ARCH64}/modunload group=sys mode=0555
1282 file path=usr/sbin/${ARCH64}/pbind group=sys mode=0555
1283 file path=usr/sbin/${ARCH64}/prtconf group=sys mode=2555
1284 file path=usr/sbin/${ARCH64}/psrset group=sys mode=0555
1285 file path=usr/sbin/${ARCH64}/rem_drv group=sys mode=0555
1286 file path=usr/sbin/${ARCH64}/swap group=sys mode=2555
1287 file path=usr/sbin/${ARCH64}/sysdef group=sys mode=2555
1288 file path=usr/sbin/${ARCH64}/update_drv group=sys mode=0555
1289 file path=usr/sbin/${ARCH64}/whodo mode=4555
1290 file path=usr/sbin/6to4relay mode=0555
1291 file path=usr/sbin/acctadm mode=0555
1292 file path=usr/sbin/allocate mode=4555
1293 file path=usr/sbin/arp mode=0555
1294 file path=usr/sbin/audit mode=0555
1295 file path=usr/sbin/auditconfig mode=0555
1296 file path=usr/sbin/auditd mode=0555
1297 file path=usr/sbin/auditrecord mode=0555
1298 file path=usr/sbin/auditreduce mode=0555
1299 file path=usr/sbin/auditstat mode=0555
1300 file path=usr/sbin/cfgadm mode=0555
1301 file path=usr/sbin/chroot mode=0555
1302 file path=usr/sbin/clear_locks mode=0555
1303 file path=usr/sbin/clinfo mode=0555
1304 file path=usr/sbin/clri mode=0555
1305 file path=usr/sbin/consadm group=sys mode=0555
1306 file path=usr/sbin/cron group=sys mode=0555
1307 file path=usr/sbin/devfsadm group=sys mode=0755

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1308 file path=usr/sbin/devinfo mode=0555
1309 file path=usr/sbin/df mode=0555
1310 file path=usr/sbin/dfmounts mode=0555
1311 file path=usr/sbin/dispadmin mode=0555
1312 file path=usr/sbin/dminfo mode=0555
1313 file path=usr/sbin/dumpadm mode=0555
1314 file path=usr/sbin/eeeprom group=sys mode=2555
1315 file path=usr/sbin/ff mode=0555
1316 file path=usr/sbin/fmthard group=sys mode=0555
1317 file path=usr/sbin/format mode=0555
1318 file path=usr/sbin/fsck mode=0555
1319 file path=usr/sbin/fstyp group=sys mode=0555
1320 file path=usr/sbin/fuser mode=0555
1321 file path=usr/sbin/getdevpolicy group=sys mode=0555
1322 file path=usr/sbin/getmajor group=sys mode=0755
1323 file path=usr/sbin/groupadd group=sys mode=0555
1324 file path=usr/sbin/groupdel group=sys mode=0555
1325 file path=usr/sbin/groupmod group=sys mode=0555
1326 file path=usr/sbin/growfs mode=0555
1327 file path=usr/sbin/grpck mode=0555
1328 file path=usr/sbin/halt mode=0755
1329 file path=usr/sbin/hotplug mode=0555
1330 file path=usr/sbin/idmap mode=0555
1331 file path=usr/sbin/if_mpadm mode=0555
1332 file path=usr/sbin/ikeadm mode=0555
1333 file path=usr/sbin/ikecert mode=0555
1334 file path=usr/sbin/inetadm mode=0555
1335 file path=usr/sbin/inetconv mode=0555
1336 file path=usr/sbin/install mode=0555
1337 file path=usr/sbin/installboot group=sys mode=0555
1338 file path=usr/sbin/ipaddrsel mode=0555
1339 file path=usr/sbin/ipsecalg mode=0555
1340 file path=usr/sbin/ipsecconf mode=0555
1341 file path=usr/sbin/ipseckey mode=0555
1342 file path=usr/sbin/keyserv group=sys mode=0555
1343 file path=usr/sbin/killall mode=0555
1344 file path=usr/sbin/ksslcfg mode=0555
1345 file path=usr/sbin/link mode=0555
1346 file path=usr/sbin/locator mode=0555
1347 file path=usr/sbin/lofiadm mode=0555
1348 file path=usr/sbin/logadm mode=0555
1349 file path=usr/sbin/makedbm mode=0555
1350 file path=usr/sbin/mkdevalloc mode=0555
1351 file path=usr/sbin/mkfile mode=0555
1352 file path=usr/sbin/mknod mode=0555
1353 file path=usr/sbin/mountall group=sys mode=0555
1354 file path=usr/sbin/msgid mode=0555
1355 file path=usr/sbin/mvdir mode=0555
1356 file path=usr/sbin/ndd mode=0555
1357 file path=usr/sbin/ndp mode=0555
1358 file path=usr/sbin/nlsadmin group=adm mode=0755
1359 file path=usr/sbin/nltest mode=0555
1360 file path=usr/sbin/nscd mode=0555
1361 file path=usr/sbin/nwamadm mode=0555
1362 file path=usr/sbin/nwamcfg mode=0555
1363 file path=usr/sbin/ping mode=4555
1364 file path=usr/sbin/pmadm group=sys mode=0555
1365 file path=usr/sbin/praudit mode=0555
1366 $(i386_ONLY)file path=usr/sbin/prtdiag group=sys mode=2755
1367 file path=usr/sbin/prtvtoc group=sys mode=0555
1368 file path=usr/sbin/psradm group=sys mode=0555
1369 file path=usr/sbin/psrinfo group=sys mode=0555
1370 file path=usr/sbin/pwck mode=0555
1371 file path=usr/sbin/pwconv group=sys mode=0555
1372 file path=usr/sbin/raidctl mode=0555
1373 file path=usr/sbin/ramdiskadm mode=0555

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1374 file path=usr/sbin/rctldm mode=0555
1375 file path=usr/sbin/root_archive group=sys mode=0555
1376 file path=usr/sbin/rpcbind mode=0555
1377 $(i386_ONLY)file path=usr/sbin/rtc mode=0555
1378 file path=usr/sbin/sacadm group=sys mode=4755
1379 file path=usr/sbin/setmnt mode=0555
1380 file path=usr/sbin/shareall mode=0555
1381 file path=usr/sbin/sharectl mode=0555
1382 file path=usr/sbin/sharemgr mode=0555
1383 file path=usr/sbin/shutdown group=sys mode=0755
1384 file path=usr/sbin/smbios mode=0555
1385 file path=usr/sbin/stmsboot mode=0555
1386 file path=usr/sbin/strace group=sys mode=0555
1387 file path=usr/sbin/strclean group=sys mode=0555
1388 file path=usr/sbin/strerr group=sys mode=0555
1389 file path=usr/sbin/sttydefs group=sys mode=0755
1390 file path=usr/sbin/svcadm mode=0555
1391 file path=usr/sbin/svccfg mode=0555
1392 file path=usr/sbin/syncinit mode=0555
1393 file path=usr/sbin/syncloop mode=0555
1394 file path=usr/sbin/syncstat mode=0555
1395 file path=usr/sbin/syseventadm group=sys mode=0555
1396 file path=usr/sbin/syslogd group=sys mode=0555
1397 file path=usr/sbin/tar mode=0555
1398 file path=usr/sbin/traceroute mode=4555
1399 file path=usr/sbin/trapstat mode=0555
1400 file path=usr/sbin/ttyadm group=sys mode=0755
1401 $(i386_ONLY)file path=usr/sbin/ucodeadm mode=0555
1402 file path=usr/sbin/umountall group=sys mode=0555
1403 file path=usr/sbin/unlink mode=0555
1404 file path=usr/sbin/unshareall mode=0555
1405 file path=usr/sbin/useradd group=sys mode=0555
1406 file path=usr/sbin/userdel group=sys mode=0555
1407 file path=usr/sbin/usermod group=sys mode=0555
1408 $(sparc_ONLY)file path=usr/sbin/virtinfo mode=0555
1409 file path=usr/sbin/volcopy mode=0555
1410 file path=usr/sbin/wall group=tty mode=2555
1411 file path=usr/sbin/zdump mode=0555
1412 file path=usr/sbin/zic mode=0555
1413 file path=usr/share/doc/ksh/COMPATIBILITY
1414 file path=usr/share/doc/ksh/DESIGN
1415 file path=usr/share/doc/ksh/OBSOLETE
1416 file path=usr/share/doc/ksh/README
1417 file path=usr/share/doc/ksh/RELEASE
1418 file path=usr/share/doc/ksh/TYPES
1419 file path=usr/share/doc/ksh/images/callouts/1.png
1420 file path=usr/share/doc/ksh/images/callouts/10.png
1421 file path=usr/share/doc/ksh/images/callouts/2.png
1422 file path=usr/share/doc/ksh/images/callouts/3.png
1423 file path=usr/share/doc/ksh/images/callouts/4.png
1424 file path=usr/share/doc/ksh/images/callouts/5.png
1425 file path=usr/share/doc/ksh/images/callouts/6.png
1426 file path=usr/share/doc/ksh/images/callouts/7.png
1427 file path=usr/share/doc/ksh/images/callouts/8.png
1428 file path=usr/share/doc/ksh/images/callouts/9.png
1429 file path=usr/share/doc/ksh/images/tag_bourne.png
1430 file path=usr/share/doc/ksh/images/tag_118n.png
1431 file path=usr/share/doc/ksh/images/tag_ksh.png
1432 file path=usr/share/doc/ksh/images/tag_ksh88.png
1433 file path=usr/share/doc/ksh/images/tag_ksh93.png
1434 file path=usr/share/doc/ksh/images/tag_110n.png
1435 file path=usr/share/doc/ksh/images/tag_perf.png
1436 file path=usr/share/doc/ksh/shell_styleguide.docbook
1437 file path=usr/share/lib/mailx/mailx.help
1438 file path=usr/share/lib/mailx/mailx.help.~
1439 file path=usr/share/lib/tabset/3101

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1440 file path=usr/share/lib/tabset/bee hive
1441 file path=usr/share/lib/tabset/hds
1442 file path=usr/share/lib/tabset/hds3
1443 file path=usr/share/lib/tabset/std
1444 file path=usr/share/lib/tabset/stdcrt
1445 file path=usr/share/lib/tabset/teleray
1446 file path=usr/share/lib/tabset/vt100
1447 file path=usr/share/lib/tabset/wyse-adds
1448 file path=usr/share/lib/tabset/xerox1720
1449 file path=usr/share/lib/termcap
1450 file path=usr/share/lib/unittab
1451 file path=usr/share/lib/xml/dtd/adt_record.dtd.1
1452 file path=usr/share/lib/xml/dtd/kmfpolicy.dtd
1453 file path=usr/share/lib/xml/dtd/service_bundle.dtd.1 group=sys
1454 file path=usr/share/lib/xml/style/adt_record.xsl.1
1455 file path=var/adm/aculog mode=0600 owner=uucp preserve=true
1456 file path=var/adm/spellhist mode=0666 preserve=true
1457 file path=var/adm/utmpx preserve=true
1458 file path=var/adm/wtmpx group=adm owner=adm preserve=true
1459 file path=var/log/authlog group=sys mode=0600 preserve=true
1460 file path=var/log/syslog group=sys preserve=true
1461 file path=var/saf/zsmon/log group=sys preserve=true
1462 file path=var/spool/cron/crontabs/adm group=sys mode=0600 preserve=true
1463 file path=var/spool/cron/crontabs/root group=sys mode=0600 preserve=true
1464 hardlink path=etc/rc2.d/S20syssetup target=../etc/init.d/syssetup
1465 hardlink path=etc/rc2.d/S89PRESERVE target=../etc/init.d/PRESERVE
1466 $(sparc_ONLY)hardlink path=etc/svc/profile/platform_SUNW,Sun-Fire-V890.xml \
1467   target=../platform_SUNW,Sun-Fire-880.xml
1468 $(sparc_ONLY)hardlink \
1469   path=etc/svc/profile/platform_SUNW,UltraSPARC-IIe-NetraCT-40.xml \
1470   target=../platform_SUNW,UltraSPARC-IIi-NetraCT.xml
1471 $(sparc_ONLY)hardlink \
1472   path=etc/svc/profile/platform_SUNW,UltraSPARC-IIe-NetraCT-60.xml \
1473   target=../platform_SUNW,UltraSPARC-IIi-NetraCT.xml
1474 hardlink path=sbin/rc5 target=../sbin/rc0
1475 hardlink path=sbin/rc6 target=../sbin/rc0
1476 hardlink path=usr/bin/$(ARCH32)/encrypt target=decrypt
1477 hardlink path=usr/bin/$(ARCH32)/ksh target=ksh93
1478 hardlink path=usr/bin/$(ARCH32)/mac target=digest
1479 hardlink path=usr/bin/$(ARCH32)/rksh target=ksh93
1480 hardlink path=usr/bin/$(ARCH32)/rksh93 target=ksh93
1481 $(i386_ONLY)hardlink path=usr/bin/$(ARCH32)/w target=uptime
1482 hardlink path=usr/bin/$(ARCH64)/encrypt target=decrypt
1483 hardlink path=usr/bin/$(ARCH64)/ksh target=ksh93
1484 hardlink path=usr/bin/$(ARCH64)/mac target=digest
1485 hardlink path=usr/bin/$(ARCH64)/rksh target=ksh93
1486 hardlink path=usr/bin/$(ARCH64)/rksh93 target=ksh93
1487 hardlink path=usr/bin/$(ARCH64)/w target=uptime
1488 hardlink path=usr/bin/bg target=../usr/bin/alias
1489 hardlink path=usr/bin/cd target=../usr/bin/alias
1490 hardlink path=usr/bin/cksum target=../usr/bin/alias
1491 hardlink path=usr/bin/cmp target=../usr/bin/alias
1492 hardlink path=usr/bin/comm target=../usr/bin/alias
1493 hardlink path=usr/bin/command target=../usr/bin/alias
1494 hardlink path=usr/bin/cut target=../usr/bin/alias
1495 hardlink path=usr/bin/decrypt target=../usr/lib/isaexec
1496 hardlink path=usr/bin/digest target=../usr/lib/isaexec
1497 hardlink path=usr/bin/dispgid target=../usr/bin/ckgid
1498 hardlink path=usr/bin/dispuid target=../usr/bin/ckuid
1499 hardlink path=usr/bin/edit target=../has/bin/edit
1500 hardlink path=usr/bin/egrep target=../usr/bin/grep
1501 #endif /* ! codereview */
1502 hardlink path=usr/bin/encrypt target=../usr/lib/isaexec
1503 hardlink path=usr/bin/fc target=../usr/bin/alias
1504 hardlink path=usr/bin/fg target=../usr/bin/alias
1505 hardlink path=usr/bin/fgrep target=../usr/bin/grep

```

```

1506 #endif /* ! codereview */
1507 hardlink path=usr/bin/getopts target=../usr/bin/alias
1508 hardlink path=usr/bin/hash target=../usr/bin/alias
1509 hardlink path=usr/bin/jobs target=../usr/bin/alias
1510 hardlink path=usr/bin/join target=../usr/bin/alias
1511 hardlink path=usr/bin/kill target=../usr/bin/alias
1512 hardlink path=usr/bin/ksh target=../usr/lib/isaexec
1513 hardlink path=usr/bin/ksh93 target=../usr/lib/isaexec
1514 hardlink path=usr/bin/ln target=../usr/bin/cp
1515 hardlink path=usr/bin/logname target=../usr/bin/alias
1516 hardlink path=usr/bin/mac target=../usr/lib/isaexec
1517 hardlink path=usr/bin/mv target=../usr/bin/cp
1518 hardlink path=usr/bin/newtask target=../usr/lib/isaexec
1519 hardlink path=usr/bin/nohup target=../usr/lib/isaexec
1520 hardlink path=usr/bin/page target=../usr/bin/more
1521 hardlink path=usr/bin/paste target=../usr/bin/alias
1522 hardlink path=usr/bin/pfbash target=../usr/bin/pfexec
1523 hardlink path=usr/bin/pfcsh target=../usr/bin/pfexec
1524 hardlink path=usr/bin/pfksh target=../usr/bin/pfexec
1525 hardlink path=usr/bin/pfksh93 target=../usr/bin/pfexec
1526 hardlink path=usr/bin/prksh target=../usr/bin/pfexec
1527 hardlink path=usr/bin/prksh93 target=../usr/bin/pfexec
1528 hardlink path=usr/bin/pfsh target=../usr/bin/pfexec
1529 hardlink path=usr/bin/pftcsh target=../usr/bin/pfexec
1530 hardlink path=usr/bin/pfzsh target=../usr/bin/pfexec
1531 hardlink path=usr/bin/pkill target=../usr/bin/grep
1532 hardlink path=usr/bin/prctl target=../usr/lib/isaexec
1533 hardlink path=usr/bin/print target=../usr/bin/alias
1534 hardlink path=usr/bin/prstat target=../usr/lib/isaexec
1535 hardlink path=usr/bin/ps target=../usr/lib/isaexec
1536 hardlink path=usr/bin/read target=../usr/bin/alias
1537 hardlink path=usr/bin/red target=../usr/bin/ed
1538 hardlink path=usr/bin/rev target=../usr/bin/alias
1539 hardlink path=usr/bin/rksh target=../usr/lib/isaexec
1540 hardlink path=usr/bin/rksh93 target=../usr/lib/isaexec
1541 hardlink path=usr/bin/savecore target=../usr/lib/isaexec
1542 hardlink path=usr/bin/setuname target=../usr/lib/isaexec
1543 hardlink path=usr/bin/sleep target=../usr/bin/alias
1544 hardlink path=usr/bin/sum target=../usr/bin/alias
1545 hardlink path=usr/bin/tee target=../usr/bin/alias
1546 hardlink path=usr/bin/test target=../usr/bin/alias
1547 hardlink path=usr/bin/touch target=../usr/bin/settime
1548 hardlink path=usr/bin/type target=../usr/bin/alias
1549 hardlink path=usr/bin/ulimit target=../usr/bin/alias
1550 hardlink path=usr/bin/umask target=../usr/bin/alias
1551 hardlink path=usr/bin/unalias target=../usr/bin/alias
1552 hardlink path=usr/bin/uniq target=../usr/bin/alias
1553 hardlink path=usr/bin/uptime target=../usr/lib/isaexec
1554 hardlink path=usr/bin/vedit target=../has/bin/edit
1555 hardlink path=usr/bin/w target=../usr/lib/isaexec
1556 hardlink path=usr/bin/wait target=../usr/bin/alias
1557 hardlink path=usr/bin/wc target=../usr/bin/alias
1558 hardlink path=usr/has/bin/ex target=edit
1559 hardlink path=usr/has/bin/pfsh target=../bin/pfexec
1560 hardlink path=usr/has/bin/vedit target=edit
1561 hardlink path=usr/has/bin/vi target=edit
1562 hardlink path=usr/has/bin/view target=edit
1563 hardlink path=usr/lib/fs/hsfs/fstyp target=../bin/fstyp
1564 hardlink path=usr/lib/fs/ufs/dcopy target=../usr/lib/fs/ufs/clri
1565 hardlink path=usr/lib/fs/ufs/fstyp target=../bin/fstyp
1566 hardlink path=usr/lib/fs/ufs/quotao \
1567   target=../usr/lib/fs/ufs/quotaooff
1568 hardlink path=usr/lib/inet/in.iked target=../usr/lib/isaexec
1569 hardlink path=usr/sadm/bin/dispgid target=../usr/bin/ckgid
1570 hardlink path=usr/sadm/bin/dispuid target=../usr/bin/ckuid
1571 hardlink path=usr/sadm/bin/errange target=../usr/bin/ckrange

```

```

1572 hardlink path=usr/sadm/bin/errdate target=../../../../usr/bin/ckdate
1573 hardlink path=usr/sadm/bin/errgid target=../../../../usr/bin/ckgid
1574 hardlink path=usr/sadm/bin/errint target=../../../../usr/bin/ckint
1575 hardlink path=usr/sadm/bin/erritem target=../../../../usr/bin/ckitem
1576 hardlink path=usr/sadm/bin/errpath target=../../../../usr/bin/ckpath
1577 hardlink path=usr/sadm/bin/errstr target=../../../../usr/bin/ckstr
1578 hardlink path=usr/sadm/bin/errtime target=../../../../usr/bin/cktime
1579 hardlink path=usr/sadm/bin/erruid target=../../../../usr/bin/ckuid
1580 hardlink path=usr/sadm/bin/erryorn target=../../../../usr/bin/ckyorn
1581 hardlink path=usr/sadm/bin/helpdate target=../../../../usr/bin/ckdate
1582 hardlink path=usr/sadm/bin/helpgid target=../../../../usr/bin/ckgid
1583 hardlink path=usr/sadm/bin/helpint target=../../../../usr/bin/ckint
1584 hardlink path=usr/sadm/bin/helpitem target=../../../../usr/bin/ckitem
1585 hardlink path=usr/sadm/bin/helppath target=../../../../usr/bin/ckpath
1586 hardlink path=usr/sadm/bin/helpprange target=../../../../usr/bin/ckrange
1587 hardlink path=usr/sadm/bin/helpstr target=../../../../usr/bin/ckstr
1588 hardlink path=usr/sadm/bin/helptime target=../../../../usr/bin/cktime
1589 hardlink path=usr/sadm/bin/helpuid target=../../../../usr/bin/ckuid
1590 hardlink path=usr/sadm/bin/helpyorn target=../../../../usr/bin/ckyorn
1591 hardlink path=usr/sadm/bin/valdate target=../../../../usr/bin/ckdate
1592 hardlink path=usr/sadm/bin/valgid target=../../../../usr/bin/ckgid
1593 hardlink path=usr/sadm/bin/valint target=../../../../usr/bin/ckint
1594 hardlink path=usr/sadm/bin/valpath target=../../../../usr/bin/ckpath
1595 hardlink path=usr/sadm/bin/valrange target=../../../../usr/bin/ckrange
1596 hardlink path=usr/sadm/bin/valstr target=../../../../usr/bin/ckstr
1597 hardlink path=usr/sadm/bin/valtime target=../../../../usr/bin/cktime
1598 hardlink path=usr/sadm/bin/valuid target=../../../../usr/bin/ckuid
1599 hardlink path=usr/sadm/bin/valyorn target=../../../../usr/bin/ckyorn
1600 hardlink path=usr/sbin/add_drv target=../usr/lib/isaexec
1601 hardlink path=usr/sbin/audlinks target=../devfsadm
1602 hardlink path=usr/sbin/consadm target=../usr/sbin/consadm
1603 hardlink path=usr/sbin/deallocate target=../usr/sbin/allocate
1604 hardlink path=usr/sbin/devlinks target=../devfsadm
1605 hardlink path=usr/sbin/dfshares target=../usr/sbin/dfmounts
1606 hardlink path=usr/sbin/disks target=../devfsadm
1607 hardlink path=usr/sbin/drvconfig target=../devfsadm
1608 hardlink path=usr/sbin/list_devices target=../usr/sbin/allocate
1609 hardlink path=usr/sbin/mkdevmaps target=../usr/sbin/mkdevalloc
1610 hardlink path=usr/sbin/modinfo target=../usr/lib/isaexec
1611 hardlink path=usr/sbin/modload target=../usr/lib/isaexec
1612 hardlink path=usr/sbin/modunload target=../usr/lib/isaexec
1613 hardlink path=usr/sbin/pbind target=../usr/lib/isaexec
1614 hardlink path=usr/sbin/ports target=../devfsadm
1615 hardlink path=usr/sbin/poweroff target=../halt
1616 hardlink path=usr/sbin/prtconf target=../usr/lib/isaexec
1617 $(sparc_ONLY)hardlink path=usr/sbin/prtdiag target=../usr/lib/platexec
1618 hardlink path=usr/sbin/psrset target=../usr/lib/isaexec
1619 hardlink path=usr/sbin/reboot target=../halt
1620 hardlink path=usr/sbin/rem_drv target=../usr/lib/isaexec
1621 hardlink path=usr/sbin/roleadd target=../usr/sbin/useradd
1622 hardlink path=usr/sbin/roledel target=../usr/sbin/userdel
1623 hardlink path=usr/sbin/rolemod target=../usr/sbin/usermod
1624 hardlink path=usr/sbin/share target=../usr/sbin/sharemgr
1625 hardlink path=usr/sbin/swap target=../usr/lib/isaexec
1626 hardlink path=usr/sbin/sysdef target=../usr/lib/isaexec
1627 hardlink path=usr/sbin/tapes target=../devfsadm
1628 hardlink path=usr/sbin/unshare target=../usr/sbin/sharemgr
1629 hardlink path=usr/sbin/update_drv target=../usr/lib/isaexec
1630 hardlink path=usr/sbin/whodo target=../usr/lib/isaexec
1631 legacy pkg=SUNWcsr \
1632     desc="core software for a specific instruction-set architecture" \
1633     name="Core Solaris, (Root)"
1634 legacy pkg=SUNWcsu \
1635     desc="core software for a specific instruction-set architecture" \
1636     name="Core Solaris, (Usr)"
1637 legacy pkg=SUNWftpr desc="FTP Server Configuration Files" \

```

```

1638     name="FTP Server, (Root)"
1639 license cr_ATT license=cr_ATT
1640 license cr_Sun license=cr_Sun
1641 license lic_CDDL license=lic_CDDL
1642 license usr/src/cmd/cmd-inet/sbin/ifparse/THIRDPARTYLICENSE \
1643     license=usr/src/cmd/cmd-inet/sbin/ifparse/THIRDPARTYLICENSE
1644 license usr/src/cmd/cmd-inet/usr.lib/in.mpathd/THIRDPARTYLICENSE \
1645     license=usr/src/cmd/cmd-inet/usr.lib/in.mpathd/THIRDPARTYLICENSE
1646 license usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.arp \
1647     license=usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.arp
1648 license usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.route \
1649     license=usr/src/cmd/cmd-inet/usr/sbin/THIRDPARTYLICENSE.route
1650 license usr/src/cmd/cmd-inet/usr/sbin/ifconfig/THIRDPARTYLICENSE \
1651     license=usr/src/cmd/cmd-inet/usr/sbin/ifconfig/THIRDPARTYLICENSE
1652 license usr/src/cmd/cmd-inet/usr/sbin/traceroute/THIRDPARTYLICENSE \
1653     license=usr/src/cmd/cmd-inet/usr/sbin/traceroute/THIRDPARTYLICENSE
1654 license usr/src/cmd/cron/THIRDPARTYLICENSE \
1655     license=usr/src/cmd/cron/THIRDPARTYLICENSE
1656 license usr/src/cmd/csh/THIRDPARTYLICENSE \
1657     license=usr/src/cmd/csh/THIRDPARTYLICENSE
1658 license usr/src/cmd/eeprom/THIRDPARTYLICENSE \
1659     license=usr/src/cmd/eeprom/THIRDPARTYLICENSE
1660 license usr/src/cmd/fs.d/ufs/THIRDPARTYLICENSE \
1661     license=usr/src/cmd/fs.d/ufs/THIRDPARTYLICENSE
1662 license usr/src/cmd/mt/THIRDPARTYLICENSE \
1663     license=usr/src/cmd/mt/THIRDPARTYLICENSE
1664 license usr/src/cmd/script/THIRDPARTYLICENSE \
1665     license=usr/src/cmd/script/THIRDPARTYLICENSE
1666 license usr/src/cmd/sed/THIRDPARTYLICENSE \
1667     license=usr/src/cmd/sed/THIRDPARTYLICENSE
1668 license usr/src/cmd/stat/vmstat/THIRDPARTYLICENSE \
1669     license=usr/src/cmd/stat/vmstat/THIRDPARTYLICENSE
1670 license usr/src/cmd/tail/THIRDPARTYLICENSE \
1671     license=usr/src/cmd/tail/THIRDPARTYLICENSE
1672 license usr/src/cmd/tip/THIRDPARTYLICENSE \
1673     license=usr/src/cmd/tip/THIRDPARTYLICENSE
1674 license usr/src/cmd/tr/THIRDPARTYLICENSE \
1675     license=usr/src/cmd/tr/THIRDPARTYLICENSE
1676 license usr/src/cmd/vi/THIRDPARTYLICENSE \
1677     license=usr/src/cmd/vi/THIRDPARTYLICENSE
1678 license usr/src/cmd/which/THIRDPARTYLICENSE \
1679     license=usr/src/cmd/which/THIRDPARTYLICENSE
1680 license usr/src/cmd/xstr/THIRDPARTYLICENSE \
1681     license=usr/src/cmd/xstr/THIRDPARTYLICENSE
1682 license usr/src/common/bzip2/LICENSE license=usr/src/common/bzip2/LICENSE
1683 link path=bin target=../usr/bin
1684 link path=etc/TIMEZONE target=../default/init
1685 link path=etc/autopush target=../sbin/autopush
1686 link path=etc/cfgadm target=../usr/sbin/cfgadm
1687 link path=etc/clri target=../usr/sbin/clri
1688 link path=etc/cron target=../usr/sbin/cron
1689 link path=etc/dcopy target=../usr/sbin/dcopy
1690 link path=etc/ff target=../usr/sbin/ff
1691 link path=etc/fmthard target=../usr/sbin/fmthard
1692 link path=etc/format target=../usr/sbin/format
1693 link path=etc/fsck target=../usr/sbin/fsck
1694 link path=etc/fsdb target=../usr/sbin/fsdb
1695 link path=etc/fstyp target=../usr/sbin/fstyp
1696 link path=etc/ftpusers target=../ftpd/ftpusers
1697 link path=etc/getty target=../usr/lib/saf/ttymon
1698 link path=etc/grpck target=../usr/sbin/grpck
1699 link path=etc/halt target=../usr/sbin/halt
1700 link path=etc/hosts target=../inet/hosts
1701 link path=etc/inet/ipnodes target=../hosts
1702 link path=etc/inetd.conf target=../inet/inetd.conf
1703 link path=etc/init target=../sbin/init

```

```

1704 link path=etc/install target=../usr/sbin/install
1705 link path=etc/killall target=../usr/sbin/killall
1706 link path=etc/labelit target=../usr/sbin/labelit
1707 link path=etc/lib/ld.so.1 target=../lib/ld.so.1
1708 link path=etc/lib/libdl.so.1 target=../lib/libdl.so.1
1709 link path=etc/lib/nss_files.so.1 target=../lib/nss_files.so.1
1710 link path=etc/log target=../var/adm/log
1711 link path=etc/mkfs target=../usr/sbin/mkfs
1712 link path=etc/mknod target=../usr/sbin/mknod
1713 link path=etc/mount target=../sbin/mount
1714 link path=etc/mountall target=../sbin/mountall
1715 link path=etc/ncheck target=../usr/sbin/ncheck
1716 link path=etc/netmasks target=../inet/netmasks
1717 link path=etc/networks target=../inet/networks
1718 link path=etc/protocols target=../inet/protocols
1719 link path=etc/prtconf target=../usr/sbin/prtconf
1720 link path=etc/prtvtoc target=../usr/sbin/prtvtoc
1721 link path=etc/rc0 target=../sbin/rc0
1722 link path=etc/rc1 target=../sbin/rc1
1723 link path=etc/rc2 target=../sbin/rc2
1724 link path=etc/rc3 target=../sbin/rc3
1725 link path=etc/rc5 target=../sbin/rc5
1726 link path=etc/rc6 target=../sbin/rc6
1727 link path=etc/rcs target=../sbin/rcs
1728 link path=etc/reboot target=../usr/sbin/halt
1729 link path=etc/security/audit/localhost/files target=../var/audit
1730 link path=etc/services target=../inet/services
1731 link path=etc/setmnt target=../usr/sbin/setmnt
1732 link path=etc/shutdown target=../usr/sbin/shutdown
1733 link path=etc/sulogin target=../sbin/sulogin
1734 link path=etc/swap target=../usr/sbin/swap
1735 link path=etc/swappadd target=../sbin/swappadd
1736 link path=etc/sysdef target=../usr/sbin/sysdef
1737 link path=etc/tar target=../usr/sbin/tar
1738 link path=etc/telinit target=../sbin/init
1739 link path=etc/uadmin target=../sbin/uadmin
1740 link path=etc/umount target=../sbin/umount
1741 link path=etc/umountall target=../sbin/umountall
1742 link path=etc/utmpx target=../var/adm/utmpx
1743 link path=etc/volcopy target=../usr/sbin/volcopy
1744 link path=etc/wall target=../usr/sbin/wall
1745 link path=etc/whodo target=../usr/sbin/whodo
1746 link path=etc/wtmpx target=../var/adm/wtmpx
1747 link path=sbin/in.mpathd target=../lib/inet/in.mpathd
1748 link path=sbin/jsh target=../usr/bin/ksh93
1749 link path=sbin/pfsh target=../usr/bin/pfexec
1750 link path=sbin/sh target=../usr/bin/$(ARCH32)/ksh93
1751 link path=sbin/su target=../usr/bin/su
1752 link path=usr/adm target=../var/adm
1753 link path=usr/bin/df target=../sbin/df
1754 link path=usr/bin/jsh target=ksh93
1755 link path=usr/bin/pwconv target=../sbin/pwconv
1756 link path=usr/bin/rmail target=../mail
1757 link path=usr/bin/sh target=$(ARCH32)/ksh93
1758 link path=usr/bin/strclean target=../sbin/strclean
1759 link path=usr/bin/strerr target=../sbin/strerr
1760 link path=usr/bin/sync target=../sbin/sync
1761 link path=usr/bin/tar target=../sbin/tar
1762 link path=usr/bin/uname target=../sbin/uname
1763 link path=usr/ccs/bin/m4 target=../bin/m4
1764 link path=usr/has/bin/jsh target=sh
1765 link path=usr/has/lib/rsh target=../bin/sh
1766 link path=usr/lib/$(ARCH64)/ld.so.1 target=../lib/$(ARCH64)/ld.so.1
1767 link path=usr/lib/cron target=../etc/cron.d
1768 link path=usr/lib/devfsadm/devfsadmd target=../sbin/devfsadm
1769 link path=usr/lib/embedded_su target=../bin/su

```

```

1770 link path=usr/lib/fs/dev/mount target=../dev/..../etc/fs/dev/mount
1771 link path=usr/lib/fs/hsfs/mount target=../dev/..../etc/fs/hsfs/mount
1772 link path=usr/lib/fs/ufs/mount target=../dev/..../etc/fs/ufs/mount
1773 link path=usr/lib/inet/in.mpathd target=../lib/inet/in.mpathd
1774 link path=usr/lib/ld.so.1 target=../lib/ld.so.1
1775 link path=usr/lib/locale/POSIX target=../C
1776 link path=usr/lib/rsh target=../bin/ksh93
1777 link path=usr/lib/secure/32 target=..
1778 link path=usr/lib/secure/64 target=$(ARCH64)
1779 link path=usr/mail target=../var/mail
1780 link path=usr/net/nls/listen target=../lib/saf/listen
1781 link path=usr/net/nls/nlps_server target=../lib/saf/nlps_server
1782 link path=usr/news target=../var/news
1783 link path=usr/preserve target=../var/preserve
1784 link path=usr/pub target=../share/lib/pub
1785 link path=usr/sbin/autopush target=../sbin/autopush
1786 link path=usr/sbin/bootadm target=../sbin/bootadm
1787 link path=usr/sbin/cryptoadm target=../sbin/cryptoadm
1788 link path=usr/sbin/dcopy target=../clri
1789 link path=usr/sbin/devnm target=../df
1790 link path=usr/sbin/dladm target=../sbin/dladm
1791 link path=usr/sbin/dlstat target=../sbin/dlstat
1792 link path=usr/sbin/edquota target=../lib/fs/ufs/edquota
1793 link path=usr/sbin/fdisk target=../sbin/fdisk
1794 link path=usr/sbin/fiocompress target=../sbin/fiocompress
1795 link path=usr/sbin/flowadm target=../sbin/flowadm
1796 link path=usr/sbin/flowstat target=../sbin/flowstat
1797 link path=usr/sbin/fsdb target=../clri
1798 link path=usr/sbin/fsirand target=../lib/fs/ufs/fsirand
1799 link path=usr/sbin/fssnap target=../clri
1800 link path=usr/sbin/hostconfig target=../sbin/hostconfig
1801 link path=usr/sbin/ifconfig target=../sbin/ifconfig
1802 link path=usr/sbin/inetd target=../lib/inet/inetd
1803 link path=usr/sbin/init target=../sbin/init
1804 $(i386_ONLY)link path=usr/sbin/installgrub target=../sbin/installgrub
1805 link path=usr/sbin/ipadm target=../sbin/ipadm
1806 link path=usr/sbin/impstat target=../sbin/impstat
1807 link path=usr/sbin/labelit target=../clri
1808 link path=usr/sbin/lockfs target=../lib/fs/ufs/lockfs
1809 link path=usr/sbin/mkfs target=../clri
1810 link path=usr/sbin/mount target=../sbin/mount
1811 link path=usr/sbin/ncheck target=../ff
1812 link path=usr/sbin/newfs target=../lib/fs/ufs/newfs
1813 link path=usr/sbin/quot target=../lib/fs/ufs/quot
1814 link path=usr/sbin/quota target=../lib/fs/ufs/quota
1815 link path=usr/sbin/quotacheck target=../lib/fs/ufs/quotacheck
1816 link path=usr/sbin/quotaoff target=../lib/fs/ufs/quotaoff
1817 link path=usr/sbin/quotaon target=../lib/fs/ufs/quotaon
1818 link path=usr/sbin/repquota target=../lib/fs/ufs/repquota
1819 link path=usr/sbin/route target=../sbin/route
1820 link path=usr/sbin/routeadm target=../sbin/routeadm
1821 link path=usr/sbin/sync target=../sbin/sync
1822 link path=usr/sbin/tunefs target=../lib/fs/ufs/tunefs
1823 link path=usr/sbin/tzreload target=../sbin/tzreload
1824 link path=usr/sbin/uadmin target=../sbin/uadmin
1825 link path=usr/sbin/ufsdump target=../lib/fs/ufs/ufsdump
1826 link path=usr/sbin/ufsrestore target=../lib/fs/ufs/ufsrestore
1827 link path=usr/sbin/umount target=../sbin/umount
1828 link path=usr/spool target=../var/spool
1829 link path=usr/src target=../share/src
1830 link path=usr/tmp target=../var/tmp
1831 link path=var/ld/32 target=..
1832 link path=var/ld/64 target=$(ARCH64)
1833 #
1834 # The bootadm binary needs the etc/release file.
1835 #

```

```
1836 depend fmri=release/name type=require
1837 #
1838 # intrd and others use the illumos-defaulted perl interpreter
1839 #
1840 depend fmri=runtime/perl$(PERL_PKGVERS) type=require
1841 #
1842 # intrd uses sun-solaris Perl modules
1843 #
1844 depend fmri=runtime/perl$(PERL_PKGVERS)/module/sun-solaris type=require
1845 #
1846 # The boot loader package
1847 #
1848 depend fmri=system/boot/loader type=require
1849 #
1850 # The System Console fonts
1851 depend fmri=system/data/console/fonts type=require
1852 #
1853 # The loadkeys binary needs the keytables.
1854 #
1855 depend fmri=system/data/keyboard/keytables type=require
1856 #
1857 # Depend on terminfo data.
1858 #
1859 depend fmri=system/data/terminfo type=require
1860 #
1861 # Depend on zoneinfo data.
1862 #
1863 depend fmri=system/data/zoneinfo type=require
1864 #
1865 # The mailx binary calls /usr/lib/sendmail provided by mailwrapper
1866 #
1867 depend fmri=system/network/mailwrapper type=require
```


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

1

15958 Thu Dec 28 10:33:38 2017

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

8858 /usr/bin/grep doesn't support -E option

4580 /usr/bin/grep can't handle multibyte characters

8929 8868 tests are not delivered with system/test/utiltest

8860 Example in grep(1) is incorrect

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```
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright (c) 2012 by Delphix. All rights reserved.
14 # Copyright 2014, OmniTI Computer Consulting, Inc. All rights reserved.
15 # Copyright 2014 Nexenta Systems, Inc. All rights reserved.
16 # Copyright 2017 Joyent, Inc.
17 #
```

```
19 set name=pkg.fmri value=pkg:/system/test/utiltest@$(PKGVERS)
20 set name=pkg.description value="Miscellaneous Utility Unit Tests"
21 set name=pkg.summary value="Utility Unit Test Suite"
22 set name=info.classification \
23     value=org.opensolaris.category.2008:Development/System
24 set name=variant.arch value=$(ARCH)
25 dir path=opt/util-tests
26 dir path=opt/util-tests/bin
27 dir path=opt/util-tests/runfiles
28 dir path=opt/util-tests/tests
29 dir path=opt/util-tests/tests/dis
30 dir path=opt/util-tests/tests/dis/i386
31 dir path=opt/util-tests/tests/dis/sparc
32 dir path=opt/util-tests/tests/files
33 dir path=opt/util-tests/tests/libnvpair_json
34 dir path=opt/util-tests/tests/libsvff
35 file path=opt/util-tests/README mode=0444
36 file path=opt/util-tests/bin/print_json mode=0555
37 file path=opt/util-tests/bin/utiltest mode=0555
38 file path=opt/util-tests/runfiles/default.run mode=0444
39 file path=opt/util-tests/tests/allowed-ips mode=0555
40 file path=opt/util-tests/tests/dis/distest mode=0555
41 file path=opt/util-tests/tests/dis/i386/32.adx.out mode=0555
42 file path=opt/util-tests/tests/dis/i386/32.adx.s mode=0555
43 file path=opt/util-tests/tests/dis/i386/32.aes.out mode=0555
44 file path=opt/util-tests/tests/dis/i386/32.aes.s mode=0555
45 file path=opt/util-tests/tests/dis/i386/32.avx.out mode=0555
46 file path=opt/util-tests/tests/dis/i386/32.avx.s mode=0555
47 file path=opt/util-tests/tests/dis/i386/32.avx2.out mode=0555
48 file path=opt/util-tests/tests/dis/i386/32.avx2.s mode=0555
49 file path=opt/util-tests/tests/dis/i386/32.avx512.out mode=0555
50 file path=opt/util-tests/tests/dis/i386/32.avx512.s mode=0555
51 file path=opt/util-tests/tests/dis/i386/32.bmi1.out mode=0555
52 file path=opt/util-tests/tests/dis/i386/32.bmi1.s mode=0555
53 file path=opt/util-tests/tests/dis/i386/32.bmi2.out mode=0555
54 file path=opt/util-tests/tests/dis/i386/32.bmi2.s mode=0555
55 file path=opt/util-tests/tests/dis/i386/32.f16c.out mode=0555
```

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

2

```
56 file path=opt/util-tests/tests/dis/i386/32.f16c.s mode=0555
57 file path=opt/util-tests/tests/dis/i386/32.fma-pd.out mode=0555
58 file path=opt/util-tests/tests/dis/i386/32.fma-pd.s mode=0555
59 file path=opt/util-tests/tests/dis/i386/32.fma-ps.out mode=0555
60 file path=opt/util-tests/tests/dis/i386/32.fma-ps.s mode=0555
61 file path=opt/util-tests/tests/dis/i386/32.fma-sd.out mode=0555
62 file path=opt/util-tests/tests/dis/i386/32.fma-sd.s mode=0555
63 file path=opt/util-tests/tests/dis/i386/32.fma-ss.out mode=0555
64 file path=opt/util-tests/tests/dis/i386/32.fma-ss.s mode=0555
65 file path=opt/util-tests/tests/dis/i386/32.lzcnt.out mode=0555
66 file path=opt/util-tests/tests/dis/i386/32.lzcnt.s mode=0555
67 file path=opt/util-tests/tests/dis/i386/32.movbe.out mode=0555
68 file path=opt/util-tests/tests/dis/i386/32.movbe.s mode=0555
69 file path=opt/util-tests/tests/dis/i386/32.opmask.out mode=0555
70 file path=opt/util-tests/tests/dis/i386/32.opmask.s mode=0555
71 file path=opt/util-tests/tests/dis/i386/32.pclmulqdq.out mode=0555
72 file path=opt/util-tests/tests/dis/i386/32.pclmulqdq.s mode=0555
73 file path=opt/util-tests/tests/dis/i386/32.popcnt.out mode=0555
74 file path=opt/util-tests/tests/dis/i386/32.popcnt.s mode=0555
75 file path=opt/util-tests/tests/dis/i386/32.sha.out mode=0555
76 file path=opt/util-tests/tests/dis/i386/32.sha.s mode=0555
77 file path=opt/util-tests/tests/dis/i386/32.sse-3.out mode=0555
78 file path=opt/util-tests/tests/dis/i386/32.sse-3.s mode=0555
79 file path=opt/util-tests/tests/dis/i386/32.sse-4.1.out mode=0555
80 file path=opt/util-tests/tests/dis/i386/32.sse-4.1.s mode=0555
81 file path=opt/util-tests/tests/dis/i386/32.sse-4.2.out mode=0555
82 file path=opt/util-tests/tests/dis/i386/32.sse-4.2.s mode=0555
83 file path=opt/util-tests/tests/dis/i386/32.ssse3.out mode=0555
84 file path=opt/util-tests/tests/dis/i386/32.ssse3.s mode=0555
85 file path=opt/util-tests/tests/dis/i386/32.xsave.out mode=0555
86 file path=opt/util-tests/tests/dis/i386/32.xsave.s mode=0555
87 file path=opt/util-tests/tests/dis/i386/64.adx.out mode=0555
88 file path=opt/util-tests/tests/dis/i386/64.adx.s mode=0555
89 file path=opt/util-tests/tests/dis/i386/64.aes.out mode=0555
90 file path=opt/util-tests/tests/dis/i386/64.aes.s mode=0555
91 file path=opt/util-tests/tests/dis/i386/64.avx.out mode=0555
92 file path=opt/util-tests/tests/dis/i386/64.avx.s mode=0555
93 file path=opt/util-tests/tests/dis/i386/64.avx2.out mode=0555
94 file path=opt/util-tests/tests/dis/i386/64.avx2.s mode=0555
95 file path=opt/util-tests/tests/dis/i386/64.avx512.out mode=0555
96 file path=opt/util-tests/tests/dis/i386/64.avx512.s mode=0555
97 file path=opt/util-tests/tests/dis/i386/64.bmi1.out mode=0555
98 file path=opt/util-tests/tests/dis/i386/64.bmi1.s mode=0555
99 file path=opt/util-tests/tests/dis/i386/64.bmi2.out mode=0555
100 file path=opt/util-tests/tests/dis/i386/64.bmi2.s mode=0555
101 file path=opt/util-tests/tests/dis/i386/64.ept.out mode=0555
102 file path=opt/util-tests/tests/dis/i386/64.ept.s mode=0555
103 file path=opt/util-tests/tests/dis/i386/64.f16c.out mode=0555
104 file path=opt/util-tests/tests/dis/i386/64.f16c.s mode=0555
105 file path=opt/util-tests/tests/dis/i386/64.fma-pd.out mode=0555
106 file path=opt/util-tests/tests/dis/i386/64.fma-pd.s mode=0555
107 file path=opt/util-tests/tests/dis/i386/64.fma-ps.out mode=0555
108 file path=opt/util-tests/tests/dis/i386/64.fma-ps.s mode=0555
109 file path=opt/util-tests/tests/dis/i386/64.fma-sd.out mode=0555
110 file path=opt/util-tests/tests/dis/i386/64.fma-sd.s mode=0555
111 file path=opt/util-tests/tests/dis/i386/64.fma-ss.out mode=0555
112 file path=opt/util-tests/tests/dis/i386/64.fma-ss.s mode=0555
113 file path=opt/util-tests/tests/dis/i386/64.lzcnt.out mode=0555
114 file path=opt/util-tests/tests/dis/i386/64.lzcnt.s mode=0555
115 file path=opt/util-tests/tests/dis/i386/64.movbe.out mode=0555
116 file path=opt/util-tests/tests/dis/i386/64.movbe.s mode=0555
117 file path=opt/util-tests/tests/dis/i386/64.opmask.out mode=0555
118 file path=opt/util-tests/tests/dis/i386/64.opmask.s mode=0555
119 file path=opt/util-tests/tests/dis/i386/64.pclmulqdq.out mode=0555
120 file path=opt/util-tests/tests/dis/i386/64.pclmulqdq.s mode=0555
121 file path=opt/util-tests/tests/dis/i386/64.popcnt.out mode=0555
```

```
122 file path=opt/util-tests/tests/dis/i386/64.popcnt.s mode=0555
123 file path=opt/util-tests/tests/dis/i386/64.random.out mode=0555
124 file path=opt/util-tests/tests/dis/i386/64.random.s mode=0555
125 file path=opt/util-tests/tests/dis/i386/64.sha.out mode=0555
126 file path=opt/util-tests/tests/dis/i386/64.sha.s mode=0555
127 file path=opt/util-tests/tests/dis/i386/64.sse-3.out mode=0555
128 file path=opt/util-tests/tests/dis/i386/64.sse-3.s mode=0555
129 file path=opt/util-tests/tests/dis/i386/64.sse-4.1.out mode=0555
130 file path=opt/util-tests/tests/dis/i386/64.sse-4.1.s mode=0555
131 file path=opt/util-tests/tests/dis/i386/64.sse-4.2.out mode=0555
132 file path=opt/util-tests/tests/dis/i386/64.sse-4.2.s mode=0555
133 file path=opt/util-tests/tests/dis/i386/64.ssse3.out mode=0555
134 file path=opt/util-tests/tests/dis/i386/64.ssse3.s mode=0555
135 file path=opt/util-tests/tests/dis/i386/64.vmx.out mode=0555
136 file path=opt/util-tests/tests/dis/i386/64.vmx.s mode=0555
137 file path=opt/util-tests/tests/dis/i386/64.xsave.out mode=0555
138 file path=opt/util-tests/tests/dis/i386/64.xsave.s mode=0555
139 file path=opt/util-tests/tests/dis/i386/tst.cpuid.out mode=0555
140 file path=opt/util-tests/tests/dis/i386/tst.cpuid.s mode=0555
141 file path=opt/util-tests/tests/dis/i386/tst.fence.out mode=0555
142 file path=opt/util-tests/tests/dis/i386/tst.fence.s mode=0555
143 file path=opt/util-tests/tests/dis/i386/tst.msr.out mode=0555
144 file path=opt/util-tests/tests/dis/i386/tst.msr.s mode=0555
145 file path=opt/util-tests/tests/dis/i386/tst.mwait.out mode=0555
146 file path=opt/util-tests/tests/dis/i386/tst.mwait.s mode=0555
147 file path=opt/util-tests/tests/dis/i386/tst.random.out mode=0555
148 file path=opt/util-tests/tests/dis/i386/tst.random.s mode=0555
149 file path=opt/util-tests/tests/dis/i386/tst.sep.out mode=0555
150 file path=opt/util-tests/tests/dis/i386/tst.sep.s mode=0555
151 file path=opt/util-tests/tests/dis/i386/tst.smap.out mode=0555
152 file path=opt/util-tests/tests/dis/i386/tst.smap.s mode=0555
153 file path=opt/util-tests/tests/dis/i386/tst.tsc.out mode=0555
154 file path=opt/util-tests/tests/dis/i386/tst.tsc.s mode=0555
155 file path=opt/util-tests/tests/dis/i386/tst.vmx.out mode=0555
156 file path=opt/util-tests/tests/dis/i386/tst.vmx.s mode=0555
157 file path=opt/util-tests/tests/dis/sparc/tst.regs.out mode=0555
158 file path=opt/util-tests/tests/dis/sparc/tst.regs.s mode=0555
159 file path=opt/util-tests/tests/files/gout0 mode=0444
160 file path=opt/util-tests/tests/files/gout1 mode=0444
161 file path=opt/util-tests/tests/files/gout10 mode=0444
162 file path=opt/util-tests/tests/files/gout11 mode=0444
163 file path=opt/util-tests/tests/files/gout12 mode=0444
164 file path=opt/util-tests/tests/files/gout13 mode=0444
165 file path=opt/util-tests/tests/files/gout14 mode=0444
166 file path=opt/util-tests/tests/files/gout15 mode=0444
167 file path=opt/util-tests/tests/files/gout16 mode=0444
168 file path=opt/util-tests/tests/files/gout17 mode=0444
169 file path=opt/util-tests/tests/files/gout18 mode=0444
170 file path=opt/util-tests/tests/files/gout19 mode=0444
171 file path=opt/util-tests/tests/files/gout2 mode=0444
172 file path=opt/util-tests/tests/files/gout20 mode=0444
173 file path=opt/util-tests/tests/files/gout21 mode=0444
174 file path=opt/util-tests/tests/files/gout22 mode=0444
175 file path=opt/util-tests/tests/files/gout23 mode=0444
176 file path=opt/util-tests/tests/files/gout24 mode=0444
177 file path=opt/util-tests/tests/files/gout25 mode=0444
178 file path=opt/util-tests/tests/files/gout26 mode=0444
179 file path=opt/util-tests/tests/files/gout27 mode=0444
180 file path=opt/util-tests/tests/files/gout28 mode=0444
181 file path=opt/util-tests/tests/files/gout29 mode=0444
182 file path=opt/util-tests/tests/files/gout3 mode=0444
183 file path=opt/util-tests/tests/files/gout30 mode=0444
184 file path=opt/util-tests/tests/files/gout31 mode=0444
185 file path=opt/util-tests/tests/files/gout32 mode=0444
186 file path=opt/util-tests/tests/files/gout33 mode=0444
187 file path=opt/util-tests/tests/files/gout34 mode=0444
```

```
188 file path=opt/util-tests/tests/files/gout35 mode=0444
189 file path=opt/util-tests/tests/files/gout36 mode=0444
190 file path=opt/util-tests/tests/files/gout37 mode=0444
191 file path=opt/util-tests/tests/files/gout38 mode=0444
192 file path=opt/util-tests/tests/files/gout39 mode=0444
193 file path=opt/util-tests/tests/files/gout4 mode=0444
194 file path=opt/util-tests/tests/files/gout40 mode=0444
195 file path=opt/util-tests/tests/files/gout41 mode=0444
196 file path=opt/util-tests/tests/files/gout42 mode=0444
197 file path=opt/util-tests/tests/files/gout43 mode=0444
198 file path=opt/util-tests/tests/files/gout44 mode=0444
199 file path=opt/util-tests/tests/files/gout45 mode=0444
200 file path=opt/util-tests/tests/files/gout46 mode=0444
201 file path=opt/util-tests/tests/files/gout47 mode=0444
202 file path=opt/util-tests/tests/files/gout48 mode=0444
203 file path=opt/util-tests/tests/files/gout49 mode=0444
204 file path=opt/util-tests/tests/files/gout5 mode=0444
205 file path=opt/util-tests/tests/files/gout50 mode=0444
206 file path=opt/util-tests/tests/files/gout51 mode=0444
207 file path=opt/util-tests/tests/files/gout52 mode=0444
208 file path=opt/util-tests/tests/files/gout53 mode=0444
209 file path=opt/util-tests/tests/files/gout54 mode=0444
210 file path=opt/util-tests/tests/files/gout55 mode=0444
211 file path=opt/util-tests/tests/files/gout56 mode=0444
212 file path=opt/util-tests/tests/files/gout57 mode=0444
213 file path=opt/util-tests/tests/files/gout58 mode=0444
214 file path=opt/util-tests/tests/files/gout59 mode=0444
215 file path=opt/util-tests/tests/files/gout6 mode=0444
216 file path=opt/util-tests/tests/files/gout60 mode=0444
217 file path=opt/util-tests/tests/files/gout61 mode=0444
218 file path=opt/util-tests/tests/files/gout62 mode=0444
219 file path=opt/util-tests/tests/files/gout63 mode=0444
220 file path=opt/util-tests/tests/files/gout64 mode=0444
221 file path=opt/util-tests/tests/files/gout65 mode=0444
222 file path=opt/util-tests/tests/files/gout66 mode=0444
223 #endif /* ! codereview */
224 file path=opt/util-tests/tests/files/gout7 mode=0444
225 file path=opt/util-tests/tests/files/gout8 mode=0444
226 file path=opt/util-tests/tests/files/gout9 mode=0444
227 file path=opt/util-tests/tests/files/test0 mode=0444
228 file path=opt/util-tests/tests/files/test1 mode=0444
229 file path=opt/util-tests/tests/files/test2 mode=0444
230 file path=opt/util-tests/tests/files/test3 mode=0444
231 file path=opt/util-tests/tests/files/test4 mode=0444
232 file path=opt/util-tests/tests/files/test5 mode=0444
233 file path=opt/util-tests/tests/files/test6 mode=0444
234 file path=opt/util-tests/tests/files/test7 mode=0444
235 file path=opt/util-tests/tests/files/testnl mode=0444
236 #endif /* ! codereview */
237 file path=opt/util-tests/tests/grep_test mode=0555
238 file path=opt/util-tests/tests/iconv_test mode=0555
239 file path=opt/util-tests/tests/libnvpair_json/json_00_blank mode=0555
240 file path=opt/util-tests/tests/libnvpair_json/json_01_boolean mode=0555
241 file path=opt/util-tests/tests/libnvpair_json/json_02_numbers mode=0555
242 file path=opt/util-tests/tests/libnvpair_json/json_03_empty_arrays mode=0555
243 file path=opt/util-tests/tests/libnvpair_json/json_04_number_arrays mode=0555
244 file path=opt/util-tests/tests/libnvpair_json/json_05_strings mode=0555
245 file path=opt/util-tests/tests/libnvpair_json/json_06_nested mode=0555
246 file path=opt/util-tests/tests/libnvpair_json/json_07_nested_arrays mode=0555
247 file path=opt/util-tests/tests/libnvpair_json/json_common mode=0555
248 file path=opt/util-tests/tests/libzlib/libz mode=0555
249 file path=opt/util-tests/tests/libzlib/libz_8472 mode=0555
250 file path=opt/util-tests/tests/libzlib/libz_8472.out mode=0444
251 file path=opt/util-tests/tests/libzlib/libz_8636_diag mode=0555
252 file path=opt/util-tests/tests/libzlib/libz_8636_diag.out mode=0444
253 file path=opt/util-tests/tests/libzlib/libz_8636_extspec mode=0555
```

```
254 file path=opt/util-tests/tests/libsff/libsff_8636_extspec.out mode=0444
255 file path=opt/util-tests/tests/libsff/libsff_8636_tech mode=0555
256 file path=opt/util-tests/tests/libsff/libsff_8636_tech.out mode=0444
257 file path=opt/util-tests/tests/libsff/libsff_8636_temp mode=0555
258 file path=opt/util-tests/tests/libsff/libsff_8636_temp.out mode=0444
259 file path=opt/util-tests/tests/libsff/libsff_br mode=0555
260 file path=opt/util-tests/tests/libsff/libsff_br.out mode=0444
261 file path=opt/util-tests/tests/libsff/libsff_compliance mode=0555
262 file path=opt/util-tests/tests/libsff/libsff_compliance.out mode=0444
263 file path=opt/util-tests/tests/libsff/libsff_conn mode=0555
264 file path=opt/util-tests/tests/libsff/libsff_conn.out mode=0444
265 file path=opt/util-tests/tests/libsff/libsff_efault mode=0555
266 file path=opt/util-tests/tests/libsff/libsff_einval mode=0555
267 file path=opt/util-tests/tests/libsff/libsff_enc mode=0555
268 file path=opt/util-tests/tests/libsff/libsff_enc.out mode=0444
269 file path=opt/util-tests/tests/libsff/libsff_ident mode=0555
270 file path=opt/util-tests/tests/libsff/libsff_ident.out mode=0444
271 file path=opt/util-tests/tests/libsff/libsff_lengths mode=0555
272 file path=opt/util-tests/tests/libsff/libsff_lengths.out mode=0444
273 file path=opt/util-tests/tests/libsff/libsff_opts mode=0555
274 file path=opt/util-tests/tests/libsff/libsff_opts.out mode=0444
275 file path=opt/util-tests/tests/libsff/libsff_strings mode=0555
276 file path=opt/util-tests/tests/libsff/libsff_wave mode=0555
277 file path=opt/util-tests/tests/libsff/libsff_wave.out mode=0444
278 file path=opt/util-tests/tests/printf_test mode=0555
279 file path=opt/util-tests/tests/set-linkprop mode=0555
280 file path=opt/util-tests/tests/xargs_test mode=0555
281 license lic_CDDL license=lic_CDDL
282 depend fmri=system/library/iconv/utf-8 type=require
283 depend fmri=system/test/testrunner type=require
```

new/usr/src/pkg/manifests/system-xopen-xcu4.mf

1

```
*****
4625 Thu Dec 28 10:33:38 2017
new/usr/src/pkg/manifests/system-xopen-xcu4.mf
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 set name=pkg.fmri value=pkg:/system/xopen/xcu4@$(PKGVERS)
27 set name=pkg.description \
28     value="utilities providing conformance with XCU4 specifications"
29 set name=pkg.summary value="XCU4 Utilities"
30 set name=info.classification \
31     value="org.opensolaris.category.2008:Applications/System Utilities"
32 set name=variant.arch value=$(ARCH)
33 dir path=usr group=sys
34 dir path=usr/xpg4
35 dir path=usr/xpg4/bin
36 file path=usr/xpg4/bin/ar mode=0555
37 file path=usr/xpg4/bin/at group=sys mode=4755
38 file path=usr/xpg4/bin/awk mode=0555
39 file path=usr/xpg4/bin/basename mode=0555
40 file path=usr/xpg4/bin/batch mode=0555
41 file path=usr/xpg4/bin/chgrp mode=0555
42 file path=usr/xpg4/bin/chown mode=0555
43 file path=usr/xpg4/bin/cp mode=0555
44 file path=usr/xpg4/bin/crontab mode=4555
45 file path=usr/xpg4/bin/ctags mode=0555
46 file path=usr/xpg4/bin/date mode=0555
47 file path=usr/xpg4/bin/du mode=0555
48 file path=usr/xpg4/bin/ed mode=0555
49 file path=usr/xpg4/bin/edit mode=0555
50 file path=usr/xpg4/bin/env mode=0555
51 file path=usr/xpg4/bin/expr mode=0555
52 file path=usr/xpg4/bin/file mode=0555
53 file path=usr/xpg4/bin/find mode=0555
54 file path=usr/xpg4/bin/getconf mode=0555
55 file path=usr/xpg4/bin/grep mode=0555
```

new/usr/src/pkg/manifests/system-xopen-xcu4.mf

2

```
55 file path=usr/xpg4/bin/id mode=0555
56 file path=usr/xpg4/bin/link mode=0555
57 file path=usr/xpg4/bin/ls mode=0555
58 file path=usr/xpg4/bin/m4 mode=0555
59 file path=usr/xpg4/bin/more mode=0555
60 file path=usr/xpg4/bin/nice mode=0555
61 file path=usr/xpg4/bin/nl mode=0555
62 file path=usr/xpg4/bin/nm mode=0555
63 file path=usr/xpg4/bin/nohup mode=0555
64 file path=usr/xpg4/bin/pr mode=0555
65 file path=usr/xpg4/bin/rm mode=0555
66 file path=usr/xpg4/bin/sort mode=0555
67 file path=usr/xpg4/bin/stty mode=0555
68 file path=usr/xpg4/bin/who mode=0555
69 hardlink path=usr/xpg4/bin/egrep target=../../../../usr/xpg4/bin/grep
70 hardlink path=usr/xpg4/bin/fgrep target=../../../../usr/xpg4/bin/grep
71 hardlink path=usr/xpg4/bin/grep target=../../../../usr/xpg4/bin/grep
72 hardlink path=usr/xpg4/bin/ln target=../../../../usr/xpg4/bin/cp
73 hardlink path=usr/xpg4/bin/mv target=../../../../usr/xpg4/bin/cp
74 hardlink path=usr/xpg4/bin/vedit target=../../../../usr/xpg4/bin/edit
75 hardlink path=usr/xpg4/bin/vi target=../../../../usr/xpg4/bin/edit
76 hardlink path=usr/xpg4/bin/view target=../../../../usr/xpg4/bin/edit
77 legacy pkg=SUNWxcu4 \
78     desc="utilities providing conformance with XCU4 specifications" \
79     name="XCU4 Utilities"
80 license cr_ATT license=cr_ATT
81 license cr_Sun license=cr_Sun
82 license lic_CDDL license=lic_CDDL
83 license lic_OSBL license=lic_OSBL
84 license lic_OSBL_preamble license=lic_OSBL_preamble
85 link path=usr/xpg4/bin/alias target=../../../../bin/alias
86 link path=usr/xpg4/bin/bg target=../../../../bin/alias
87 link path=usr/xpg4/bin/cd target=../../../../bin/alias
88 link path=usr/xpg4/bin/command target=../../../../bin/alias
89 link path=usr/xpg4/bin/df target=../../../../sbin/df
90 link path=usr/xpg4/bin/egrep target=../../../../bin/grep
91 #endif /* ! codereview */
92 link path=usr/xpg4/bin/fc target=../../../../bin/alias
93 link path=usr/xpg4/bin/fg target=../../../../bin/alias
94 link path=usr/xpg4/bin/fgrep target=../../../../bin/grep
95 #endif /* ! codereview */
96 link path=usr/xpg4/bin/hash target=../../../../bin/alias
97 link path=usr/xpg4/bin/ipcs target=../../../../bin/ipcs
98 link path=usr/xpg4/bin/jobs target=../../../../bin/alias
99 link path=usr/xpg4/bin/kill target=../../../../bin/alias
100 link path=usr/xpg4/bin/od target=../../../../bin/od
101 link path=usr/xpg4/bin/pfsh target=../../../../bin/pfexec
102 link path=usr/xpg4/bin/read target=../../../../bin/alias
103 link path=usr/xpg4/bin/sed target=../../../../bin/sed
104 link path=usr/xpg4/bin/sh target=../../../../bin/ksh93
105 link path=usr/xpg4/bin/tail target=../../../../bin/tail
106 link path=usr/xpg4/bin/test target=../../../../bin/alias
107 link path=usr/xpg4/bin/tr target=../../../../bin/tr
108 link path=usr/xpg4/bin/type target=../../../../bin/alias
109 link path=usr/xpg4/bin/ulimit target=../../../../bin/alias
110 link path=usr/xpg4/bin/umask target=../../../../bin/alias
111 link path=usr/xpg4/bin/unalias target=../../../../bin/alias
112 link path=usr/xpg4/bin/wait target=../../../../bin/alias
113 link path=usr/xpg4/bin/wait target=../../../../bin/alias
```

new/usr/src/test/util-tests/tests/grep_xpg4/files/Makefile

1

```
*****
1586 Thu Dec 28 10:33:38 2017
new/usr/src/test/util-tests/tests/grep_xpg4/files/Makefile
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright (c) 2013 by Delphix. All rights reserved.
14 # Copyright 2014 Nexenta Systems, Inc. All rights reserved.
15 #
16 #
17 include $(SRC)/cmd/Makefile.cmd
18 include $(SRC)/test/Makefile.com
19 #
20 ROOTOPTPKG = $(ROOT)/opt/util-tests
21 TESTDIR = $(ROOTOPTPKG)/tests/files
22 #
23 PROGS = test0 \
24         test1 \
25         test2 \
26         test3 \
27         test4 \
28         test5 \
29         test6 \
30         test7 \
31         gout0 \
32         gout1 \
33         gout2 \
34         gout3 \
35         gout4 \
36         gout5 \
37         gout6 \
38         gout7 \
39         gout8 \
40         gout9 \
41         gout10 \
42         gout11 \
43         gout12 \
44         gout13 \
45         gout14 \
46         gout15 \
47         gout16 \
48         gout17 \
49         gout18 \
50         gout19 \
51         gout20 \
52         gout21 \
53         gout22 \
54         gout23 \
55         gout24 \
```

new/usr/src/test/util-tests/tests/grep_xpg4/files/Makefile

2

```
56         gout25 \
57         gout26 \
58         gout27 \
59         gout28 \
60         gout29 \
61         gout30 \
62         gout31 \
63         gout32 \
64         gout33 \
65         gout34 \
66         gout35 \
67         gout36 \
68         gout37 \
69         gout38 \
70         gout39 \
71         gout40 \
72         gout41 \
73         gout42 \
74         gout43 \
75         gout44 \
76         gout45 \
77         gout46 \
78         gout47 \
79         gout48 \
80         gout49 \
81         gout50 \
82         gout51 \
83         gout52 \
84         gout53 \
85         gout54 \
86         gout55 \
87         gout56 \
88         gout57 \
89         gout58 \
90         gout59 \
91         gout60 \
92         gout61 \
93         gout62 \
94         gout63 \
95         gout64 \
96         gout65 \
97         gout66 \
98         testn1
99         gout62
100 CMDS = $(PROGS:%=$(TESTDIR)/%)
101 $(CMDS) := FILEMODE = 0444
102 #
103 all lint clean clobber:
104 #
105 install: $(CMDS)
106 #
107 $(CMDS): $(TESTDIR)
108 #
109 $(TESTDIR):
110     $(INS.dir)
111 #
112 $(TESTDIR)/%: %
113     $(INS.file)
```

new/usr/src/test/util-tests/tests/grep_xpg4/grep_test.ksh

1

2251 Thu Dec 28 10:33:38 2017

new/usr/src/test/util-tests/tests/grep_xpg4/grep_test.ksh

8858 /usr/bin/grep doesn't support -E option

4580 /usr/bin/grep can't handle multibyte characters

8929 8868 tests are not delivered with system/test/utiltest

8860 Example in grep(1) is incorrect

Reviewed by: Peter Tribble <peter.tribble@gmail.com>

Reviewed by: Toomas Soome <tsoome@me.com>

Reviewed by: Yuri Pankov <yuripv@gmx.com>

1 #! /usr/bin/ksh

2 #

3 #

4 # This file and its contents are supplied under the terms of the

5 # Common Development and Distribution License ("CDDL"), version 1.0.

6 # You may only use this file in accordance with the terms of version

7 # 1.0 of the CDDL.

8 #

9 # A full copy of the text of the CDDL should have accompanied this

10 # source. A copy of the CDDL is also available via the Internet at

11 # <http://www.illumos.org/license/CDDL>.

12 #

14 #

15 # Copyright 2017 Nexenta Systems, Inc. All rights reserved.

16 #

18 XGREP=\${XGREP:=/usr/bin/grep}

18 XGREP=\${XGREP:=/usr/xpg4/bin/grep}

19 FILEDIR=\${MY_TESTS}/tests/files

21 fail() {

22 echo \$1

23 exit -1

24 }

unchanged portion omitted

new/usr/src/test/zfs-tests/tests/functional/acl/acl_common.kshlib

1

12177 Thu Dec 28 10:33:38 2017

new/usr/src/test/zfs-tests/tests/functional/acl/acl_common.kshlib

8858 /usr/bin/grep doesn't support -E option

4580 /usr/bin/grep can't handle multibyte characters

8929 8868 tests are not delivered with system/test/utiltest

8860 Example in grep(1) is incorrect

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Reviewed by: Yuri Pankov <yuripv@gmx.com>

_____ unchanged portion omitted _____

399 #

400 # Get the given file/directory xattr

401 #

402 # \$1 object -- file or directory

403 #

404 function get_xattr #<obj>

405 {

406 typeset obj=\$1

407 typeset xattr

408 if ((\${#obj} == 0)); then

409 return 1

410 fi

412 for xattr in `runat \$obj ls | \

413 /usr/bin/egrep -v -e SUNWattr_ro -e SUNWattr_rw` ; do

413 /usr/xpg4/bin/egrep -v -e SUNWattr_ro -e SUNWattr_rw` ; do

414 runat \$obj sum \$xattr

415 done

416 }

_____ unchanged portion omitted _____

new/usr/src/tools/scripts/elfcmp.sh

1

```
*****
3539 Thu Dec 28 10:33:39 2017
new/usr/src/tools/scripts/elfcmp.sh
8858 /usr/bin/grep doesn't support -E option
4580 /usr/bin/grep can't handle multibyte characters
8929 8868 tests are not delivered with system/test/utiltest
8860 Example in grep(1) is incorrect
Reviewed by: Peter Tribble <peter.tribble@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
Reviewed by: Yuri Pankov <yuripv@gmx.com>
*****
1 #!/bin/ksh
2 #
3 # CDDL HEADER START
4 #
5 # The contents of this file are subject to the terms of the
6 # Common Development and Distribution License, Version 1.0 only
7 # (the "License"). You may not use this file except in compliance
8 # with the License.
9 #
10 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
11 # or http://www.opensolaris.org/os/licensing.
12 # See the License for the specific language governing permissions
13 # and limitations under the License.
14 #
15 # When distributing Covered Code, include this CDDL HEADER in each
16 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
17 # If applicable, add the following below this CDDL HEADER, with the
18 # fields enclosed by brackets "[]" replaced with your own identifying
19 # information: Portions Copyright [yyyy] [name of copyright owner]
20 #
21 # CDDL HEADER END
22 #
23 #
24 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 #ident "%Z%M% %I% %E% SMI"
28 #
29 # elfcmp - compare significant sections in two ELF files
30 #
31 #
32 VERBOSE=0
33 SECTIONLIST=""
34 SIGNING_CHECK=0
35 ERRORS=0
36 #
37 usage() {
38     echo 'Usage: elfcmp [-v] [-S] [-s section ...] <f1> <f2>' 1>&2
39     exit 1
40 }
41 #
42 unchanged_portion_omitted
43 #
44 #
45 #
46 #
47 #
48 #
49 #
50 #
51 #
52 #
53 #
54 #
55 #
56 #
57 #
58 #
59 #
60 #
61 #
62 #
63 #
64 #
65 #
66 #
67 #
68 #
69 #
70 #
71 #
72 #
73 #
74 #
75 #
76 #
77 #
78 #
79 #
80 #
81 #
82 signing_filter() {
83     /usr/bin/grep -v -e \\$SHSTRTAB -e \\$.SUNW_signature
84     /usr/xpg4/bin/grep -v -e \\$SHSTRTAB -e \\$.SUNW_signature
85 }
86 #
87 unchanged_portion_omitted
```