

new/usr/src/cmd/awk_xpg4/Makefile

1

```
*****
2080 Mon Sep  4 19:55:56 2017
new/usr/src/cmd/awk_xpg4/Makefile
8609 want a position independent CRT
*****
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26 # cmd/awk_xpg4/Makefile
27 #

29 # NOTE: this is nawk in usr/src/cmd/awk_xpg4 to reside as /usr/xpg4/bin/awk

31 PROG= awk
32 XPG4PROG= awk

34 OBJ1= awk0.o awk1.o awk2.o awk3.o awk4.o
35 OBJ2= awk.o
36 XPG4AWKOBJ= values-xpg4.o
37 OBJS= $(OBJ2) $(OBJ1) $(XPG4AWKOBJ)
38 SRCS= $(OBJ1:%.o=%.c)

40 include ../Makefile.cmd

42 CPPFLAGS += -D_FILE_OFFSET_BITS=64
43 CFLAGS += $(CVERBOSE)
44 CERRWARN += -_gcc=-Wno-unused-label
45 CERRWARN += -_gcc=-Wno-parentheses
46 CERRWARN += -_gcc=-Wno-uninitialized
47 YFLAGS += -d
48 LDLIBS += -lm
49 CLEANFILES= awk.c y.tab.h

51 # for messaging catalog

53 POFILE= awk_xpg4.po
54 POFILES= $(OBJ1:%.o=%.po) $(OBJ2:%.o=%.po)

56 .KEEP_STATE:

58 .PARALLEL:      $(OBJS)

60 all: $(XPG4)
```

new/usr/src/cmd/awk_xpg4/Makefile

2

```
62 $(XPG4): $(OBJS)
63      $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
64      $(POST_PROCESS)

66 $(POFILE): $(POFILES)
67      $(RM) $@
68      cat $(POFILES) > $@
69 #

71 install: all $(ROOTXPG4PROG)

73 values-xpg4.o: ../../lib/crt/common/values-xpg4.c
74      $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg4.c
73 values-xpg4.o: ../../lib/common/common/values-xpg4.c
74      $(COMPILE.c) -o $@ ../../lib/common/common/values-xpg4.c

76 clean:
77      $(RM) $(OBJS) $(XPG4) $(CLEANFILES)

79 lint: lint_SRCS

81 awk.c + y.tab.h: awk.y

83 awk.o: awk.c y.tab.h

85 awk0.c: awk.c y.tab.h

87 awk1.c: awk.c y.tab.h

89 awk2.c: awk.c y.tab.h

91 awk3.c: awk.c y.tab.h

93 awk4.c: awk.c y.tab.h

95 include ../Makefile.targ
```

new/usr/src/cmd/cron/Makefile

1

```

*****
6099 Mon Sep 4 19:55:57 2017
new/usr/src/cmd/cron/Makefile
8609 want a position independent CRT
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26 DEFAULTFILES = cron.dfl

28 include      ../Makefile.cmd

30 MANIFEST =   cron.xml

32 ROOTMANIFESTDIR = $(ROOTSVCSYSTEM)
33 ROOTMETHOD =   $(ROOTLIBSVCMETHOD)/svc-cron

35 CPPFLAGS +=   -D_FILE_OFFSET_BITS=64 -I $(SRC)/common/util
36 CERRWARN +=   -_gcc=-Wno-parentheses
37 CERRWARN +=   -_gcc=-Wno-unused-label
38 CERRWARN +=   -_gcc=-Wno-uninitialized
39 CERRWARN +=   -_gcc=-Wno-unused-variable
40 CERRWARN +=   -_gcc=-Wno-unused-value

42 ROOTVAR =     $(ROOT)/var

44 ROOTSPCRON =  $(ROOTVAR)/spool/cron
45 ROOTCROND =   $(ROOTETC)/cron.d
46 ROOTCRONTABS = $(ROOTSPCRON)/crontabs
47 ROOTATJOBS = $(ROOTSPCRON)/atjobs
48 ROOTLIBCRON = $(ROOTLIB)/cron

50 PROG1 =       cron
51 PROG2 =       at atq atrm crontab
52 XPG6PROG =    crontab
53 XPG4PROG =    at crontab
54 PROG =        $(PROG1) $(PROG2)

56 SCRIPT =      batch
57 XPG4SCRIPT =  batch.xpg4

59 POFILE=       $(PROG1)_cmd.po
60 POFILES1=     at.po crontab.po funcs.po batch.po
61 POFILES=      $(POFILES1) atrm.po

```

new/usr/src/cmd/cron/Makefile

2

```

62 $(POFILES1) := XGETFLAGS= -a -x $(PROG1).xcl

64 ROOTDIRS =    $(ROOTSPCRON) $(ROOTCROND) \
65              $(ROOTCRONTABS) $(ROOTATJOBS)

67 ROOTPROG =    $(PROG1:%=$(ROOTUSRSBIN)/%) $(PROG2:%=$(ROOTBIN)/%) \
68              $(SCRIPT:%=$(ROOTBIN)/%) \
69              $(XPG6PROG:%=$(ROOTXPG6BIN)/%) \
70              $(XPG4PROG:%=$(ROOTXPG4BIN)/%) \
71              $(XPG4SCRIPT:%.xpg4=$(ROOTXPG4BIN)/%)

73 ROOTSYMLINK = $(ROOTLIBCRON) $(ROOTETC)/cron

75 GETRESPSRC=   $(SRC)/common/util/getresponse.c
76 GETRESPOBJ=   getresponse.o
77 COMMONOBJ1=   permit.o
78 COMMONOBJ2=   funcs.o
79 COMMONOBS=    $(COMMONOBJ1) $(COMMONOBJ2)
80 CRONOBS=       cron.o elm.o
81 ATOBS=         at.o att1.o att2.o
82 XPG4OBS=       values-xpg4.o
83 ATRMOBS1=      atrm.o
84 ATRMOBS=       $(ATRMOBS1) $(GETRESPOBJ)
85 ATQOBS=        atq.o
86 CRONTABOBS1=  crontab.o
87 CRONTABOBS=   $(CRONTABOBS1) $(GETRESPOBJ)

89 # /usr/xpg*/bin/crontab isn't linked with values-xpg*.o since it isn't
90 # required by any specific behavior differences; this makes these
91 # setuid variants less likely to accidentally trip over differences that
92 # could unintentionally open up a security hole.
93 XPG4COMMONOBS= $(COMMONOBS:%=objs.xpg4/%)
94 XPG4CTOBS=     $(CRONTABOBS:%=objs.xpg4/%)
95 XPG4ATOBS=     $(ATOBS:%=objs.xpg4/%) $(XPG4OBS:%=objs.xpg4/%)
96 XPG6COMMONOBS= $(COMMONOBS:%=objs.xpg6/%)
97 XPG6CTOBS=     $(CRONTABOBS:%=objs.xpg6/%)

99 cron :=       POBS = $(CRONOBS) $(COMMONOBJ2)
100 at :=         POBS = $(ATOBS) $(COMMONOBS)
101 at.xpg4 :=    POBS = $(XPG4ATOBS) $(XPG4COMMONOBS)
102 atrm :=       POBS = $(ATRMOBS) $(COMMONOBS)
103 atq :=        POBS = $(ATQOBS) $(COMMONOBS)
104 crontab :=    POBS = $(CRONTABOBS) $(COMMONOBS)
105 crontab.xpg4 := POBS = $(XPG4CTOBS) $(XPG4COMMONOBS)
106 crontab.xpg6 := POBS = $(XPG6CTOBS) $(XPG6COMMONOBS)

108 CFLAGS +=     $(CCVERBOSE)

110 NOBS=         $(CRONOBS) $(ATOBS) $(ATRMOBS1) $(ATQOBS) $(CRONTABOBS1) \
111              $(COMMONOBS)
112 OBS =         $(NOBS) $(XPG4COMMONOBS) $(XPG4ATOBS) $(XPG4CTOBS) \
113              $(XPG6COMMONOBS) $(XPG6CTOBS) $(GETRESPOBJ)

115 SRCS =        $(NOBS:%.o=%.c) $(GETRESPSRC)

117 CLOBBERFILES += $(SCRIPT) $(XPG4SCRIPT)

119 $(ROOTLIBCRON) := SYMLNKDEST = ../etc/cron.d
120 $(ROOTETC)/cron := SYMLNKDEST = ../usr/sbin/cron

122 $(ROOTBIN)/at := FILEMODE = 04755
123 $(ROOTXPG4BIN)/at := FILEMODE = 04755
124 $(ROOTBIN)/atrm := FILEMODE = 04755
125 $(ROOTBIN)/atq := FILEMODE = 04755
126 $(ROOTBIN)/crontab := FILEMODE = 04555
127 $(ROOTXPG6BIN)/crontab := FILEMODE = 04555

```

new/usr/src/cmd/cron/Makefile

```

128 $(ROOTXPG4BIN)/crontab := FILEMODE = 04555
129 $(ROOTUSRSBIN)/cron := FILEMODE = 0555

131 LDLIBS += -lbsm

133 at := LDLIBS += -lproject -lsecdb
134 at.xpg4 := LDLIBS += -lproject -lsecdb
135 atq := LDLIBS += -lsecdb
136 atrm := LDLIBS += -lsecdb
137 cron := LDLIBS += -lpam -lproject -lcontract -lzoneinfo
138 crontab := LDLIBS += -lsecdb -lpam -lzoneinfo
139 crontab.xpg6 := LDLIBS += -lsecdb -lpam -lzoneinfo
140 crontab.xpg4 := LDLIBS += -lsecdb -lpam -lzoneinfo

142 lint := LDLIBS += -lproject -lsecdb -lcontract -lpam

144 $(XPG4) := CFLAGS += -DXPG4
145 $(XPG6) := CFLAGS += -DXPG6

147 LINTFLAGS += -u

149 $(ROOTSVCSYSTEM)/cron.xml := FILEMODE = 0444
150 $(ROOTLIBSVCMETHOD)/svc-cron := FILEMODE = 0555

153 .KEEP_STATE:

155 all : $(PROG) $(XPG4) $(XPG6) $(SCRIPT) $(XPG4SCRIPT) $(FILES)

157 install : all $(ROOTPROG) $(ROOTETCDEFAULTFILES) $(ROOTSYMLINK) \
158 $(ROOTMANIFEST) $(ROOTMETHOD)

160 $(PROG) : $$$(POBJS)
161 $(LINK.c) $(POBJS) -o $$@ $(LDLIBS)
162 $(POST_PROCESS)

164 $(XPG4) : objs.xpg4 $$$(POBJS)
165 $(LINK.c) $(POBJS) -o $$@ $(LDLIBS)
166 $(POST_PROCESS)

168 $(XPG6) : objs.xpg6 $$$(POBJS)
169 $(LINK.c) $(POBJS) -o $$@ $(LDLIBS)
170 $(POST_PROCESS)

172 objs.xpg6/%.o: %.c
173 $(COMPILE.c) -o $$@ $$<

175 objs.xpg6:
176 -@mkdir -p $$@

178 objs.xpg4/%.o: %.c
179 $(COMPILE.c) -o $$@ $$<

181 objs.xpg4:
182 -@mkdir -p $$@

184 objs.xpg4/values-xpg4.o: ../../lib/crt/common/values-xpg4.c
185 $(COMPILE.c) -o $$@ ../../lib/crt/common/values-xpg4.c
184 objs.xpg4/values-xpg4.o: ../../lib/common/common/values-xpg4.c
185 $(COMPILE.c) -o $$@ ../../lib/common/common/values-xpg4.c

187 %.o: $(SRC)/common/util/%.c
188 $(COMPILE.c) $(OUTPUT_OPTION) $$<
189 $(POST_PROCESS_O)

191 objs.xpg4/%.o: $(SRC)/common/util/%.c

```

3

new/usr/src/cmd/cron/Makefile

```

192 $(COMPILE.c) -o $$@ $$<
193 $(POST_PROCESS_O)

195 objs.xpg6/%.o: $(SRC)/common/util/%.c
196 $(COMPILE.c) -o $$@ $$<
197 $(POST_PROCESS_O)

199 att1.c : att1.y
200 $(YACC.y) -d att1.y
201 $(MV) y.tab.c att1.c
202 $(MV) y.tab.h att1.h

204 att2.c : att2.1 att2.ed att1.c
205 $(LEX) att2.1
206 ed - lex.yy.c < att2.ed
207 $(MV) lex.yy.c att2.c

209 # Don't re-install directories installed by Targetdirs
210 #$(ROOTDIRS):
211 # $(INS.dir)

213 $(ROOTSYMLINK) :
214 $(RM) $$@; $(SYMLINK) $(SYMLNKDEST) $$@

216 check: $(CHKMANIFEST)

218 $(POFILE): $(POFILES)
219 $(RM) $$@; cat $(POFILES) > $$@

221 clean :
222 $(RM) $(OBJS) att1.h att1.c att2.c

224 lint : lint_SRCS

226 strip : $(STRIP) $(PROG) $(XPG4) $(XPG6)

229 include ../Makefile.targ

```

4

new/usr/src/cmd/date/Makefile

1

```
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1435 Mon Sep  4 19:55:57 2017
new/usr/src/cmd/date/Makefile
8609 want a position independent CRT
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22 #
23 #ident "%Z%M% %I% %E% SMI"
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25 #

27 PROG= date
28 XPG4PROG= date
29 OBJS= date.o

31 include ../Makefile.cmd

33 CFLAGS += $(CCVERBOSE)

35 clean $(XPG4) := OBJS += values-xpg4.o
36 XGETFLAGS += -a -x $(PROG).xcl

38 .KEEP_STATE:

40 all: $(PROG) $(XPG4)

42 $(PROG) $(XPG4): $(OBJS)
43     $(LINK.c) -o $@ $(OBJS) $(LDLIBS)
44     $(POST_PROCESS)

47 install: all $(ROOTPROG) $(ROOTXPG4PROG)

49 values-xpg4.o: ../../lib/crt/common/values-xpg4.c
50     $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg4.c
51 values-xpg4.o: ../../lib/common/common/values-xpg4.c
52     $(COMPILE.c) -o $@ ../../lib/common/common/values-xpg4.c

52 clean:
53     $(RM) $(OBJS)

55 # do not lint date.xpg4
56 lint: lint_PROG
```

new/usr/src/cmd/date/Makefile

2

```
58 include ../Makefile.targ
```

new/usr/src/cmd/ed/Makefile

1

2944 Mon Sep 4 19:55:58 2017

new/usr/src/cmd/ed/Makefile

8609 want a position independent CRT

```
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26 PROG= ed
27 XPG4PROG= ed
28 XPG6PROG= ed

30 EDOBJ= ed.o compile.o
31 XPG4EDOBJ= edobjs.xpg4/ed.o edobjs.xpg4/compile.o values-xpg4.o
32 XPG6EDOBJ= edobjs.xpg6/ed.o edobjs.xpg6/compile.o values-xpg6.o
33 OBJ= $(EDOBJ) $(XPG4EDOBJ) $(XPG6EDOBJ)
34 SRCS= ./ed.c ../expr/compile.c

36 POFILES= $(EDOBJ:%.o=%.po)

38 include ../Makefile.cmd

40 CFLAGS += $(CCVERBOSE)
41 CERRWARN += -_gcc=-Wno-parentheses
42 CERRWARN += -_gcc=-Wno-unused-variable
43 CERRWARN += -_gcc=-Wno-unused-function
44 CERRWARN += -_gcc=-Wno-uninitialized
45 $(XPG4) := CFLAGS += -DXPG4
46 $(XPG6) := CFLAGS += -DXPG6 -I$(SRC)/lib/libc/inc
47 lint := LDLIBS += -lgen -lcrypt
48 LDLIBS += -lmmapalloc -lgen -lcrypt_i
49 XGETFLAGS += -a -x ed.xcl

51 MAPFILE.INT = ../expr/mapfile-intf
52 LDFFLAGS += $(MAPFILE.INT:%=-M%)

54 POFILE= ed_cmd.po

56 %.po: ../expr/%.c
57     $(COMPILE.cpp) $< > $*.c.i
58     $(XGETTEXT) $(XGETFLAGS) $*.c.i
59     $(MV) messages.po $@

61 .KEEP_STATE:
```

new/usr/src/cmd/ed/Makefile

2

```
63 all:    $(PROG) $(XPG4) $(XPG6)

65 $(PROG): $(EDOBJ) $(MAPFILE.INT)
66     $(LINK.c) $(EDOBJ) -o $@ $(LDLIBS)
67     $(POST_PROCESS)

69 $(XPG4): edobjs.xpg4 $(XPG4EDOBJ) $(MAPFILE.INT)
70     $(LINK.c) $(XPG4EDOBJ) -o $@ $(LDLIBS)
71     $(POST_PROCESS)

73 $(XPG6): edobjs.xpg6 $(XPG6EDOBJ) $(MAPFILE.INT)
74     $(LINK.c) $(XPG6EDOBJ) -o $@ $(LDLIBS)
75     $(POST_PROCESS)

77 compile.o:    ../expr/compile.c
78     $(COMPILE.c) -o $@ ../expr/compile.c

80 edobjs.xpg4/%.o:    %.c
81     $(COMPILE.c) -o $@ $<

83 edobjs.xpg4/%.o:    ../expr/compile.c
84     $(COMPILE.c) -o $@ $<

86 edobjs.xpg6/%.o:    %.c
87     $(COMPILE.c) -o $@ $<

89 edobjs.xpg6/%.o:    ../expr/compile.c
90     $(COMPILE.c) -o $@ $<

92 edobjs.xpg4:
93     -@mkdir -p $@

95 edobjs.xpg6:
96     -@mkdir -p $@

98 $(POFILE): $(POFILES)
99     $(RM) $@
100     cat $(POFILES) > $@

102 install: all $(ROOTPROG) $(ROOTXPG4PROG) $(ROOTXPG6PROG)
103     $(RM) $(ROOTBIN)/red
104     $(LN) $(ROOTBIN)/ed $(ROOTBIN)/red

106 values-xpg4.o: ../lib/crt/common/values-xpg4.c
107     $(COMPILE.c) -o $@ ../lib/crt/common/values-xpg4.c
108 values-xpg4.o: ../lib/common/common/values-xpg4.c
109     $(COMPILE.c) -o $@ ../lib/common/common/values-xpg4.c

109 values-xpg6.o: ../lib/crt/common/values-xpg6.c
110     $(COMPILE.c) -o $@ ../lib/crt/common/values-xpg6.c
111 values-xpg6.o: ../lib/common/common/values-xpg6.c
112     $(COMPILE.c) -o $@ ../lib/common/common/values-xpg6.c

112 clean:
113     -@rm -rf $(OBJ) $(XPG4) $(XPG6) edobjs.xpg4 edobjs.xpg6 \
114         compile.c.i

116 lint:    lint_PROG

118 include ../Makefile.targ
```

new/usr/src/cmd/ed/inc.flg

1

989 Mon Sep 4 19:55:58 2017

new/usr/src/cmd/ed/inc.flg

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26 #
27 # ident "%Z%M% %I% %E% SMI"
28 echo_file usr/src/cmd/expr/compile.c
29 echo_file usr/src/cmd/expr/mapfile-intf
31 echo_file usr/src/lib/common/common/values-xpg4.c
32 echo_file usr/src/lib/common/common/values-xpg6.c
```

new/usr/src/cmd/env/Makefile

1

1352 Mon Sep 4 19:55:59 2017

new/usr/src/cmd/env/Makefile

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25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 PROG= env
28 XPG4PROG= env
29 OBJJS= env.o

31 include ../Makefile.cmd

33 clean $(XPG4) := OBJJS += values-xpg4.o

35 .KEEP_STATE:

37 all: $(PROG) $(XPG4)

39 $(PROG) $(XPG4): $$$(OBJJS)
40 $(LINK.c) -o $$@ $(OBJJS) $(LDLIBS)
41 $(POST_PROCESS)

43 install: all $(ROOTPROG) $(ROOTXPG4PROG)

45 values-xpg4.o: ../../lib/crt/common/values-xpg4.c
46 $(COMPILE.c) -o $$@ ../../lib/crt/common/values-xpg4.c
47 values-xpg4.o: ../../lib/common/common/values-xpg4.c
48 $(COMPILE.c) -o $$@ ../../lib/common/common/values-xpg4.c

48 clean:
49 $(RM) $(OBJJS)

51 lint: lint_PROG

53 include ../Makefile.targ
```

new/usr/src/cmd/getconf/Makefile

1

```
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3641 Mon Sep  4 19:55:59 2017
new/usr/src/cmd/getconf/Makefile
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25 #

27 PROG= getconf
28 XPG4PROG= getconf
29 XPG6PROG= getconf
30 X4= objs.xpg4
31 X6= objs.xpg6
32 OBJS= getconf.o
33 XPG4EXOBJ= $(X4)/getconf.o
34 XPG6EXOBJ= $(X6)/getconf.o

36 include ../Makefile.cmd

38 XPG4EXOBJ += values-xpg4.o
39 CFLAGS += $(CCVERBOSE)
40 # XPG4
41 $(XPG4) := CFLAGS += -D_XOPEN_SOURCE -I$(SRC)/lib/libc/inc

43 # XPG6MODE: Depending on the version of the compiler, the value of
44 # __STDC_VERSION__ may differ even in the presence of the same compilation
45 # options. The default compilation mode for Sun compilers that support the
46 # C99 standard is -xc99=all,no_lib. C99MODE= is equivalent to -xc99=all,no_lib.
47 # This translates to C99 semantics without the C99 library specific behaviors
48 # and dependencies.
49 #
50 # For pre-5.7 compilers (unless patched with 117551-04 or 117552-05), in the
51 # default compilation mode, __STDC_VERSION__ was defined to be 199901L. For
52 # 5.7 and on compilers, __STDC_VERSION__ defaults to 199409L in order to
53 # maintain source compatibility. Neither of these cases results in the
54 # importing of /usr/lib/values-xpg6.o, so we need to either manually import
55 # it via linking with a local version of the object, or set -xc99=%all which
56 # by default imports /usr/lib/values-xpg6.o. C99MODE=C99_ENABLE is equivalent
57 # to -xc99=all. If C99_ENABLE is defined and we also attempt to link with a
58 # local version of values-xpg6.o, an error will occur due to multiple
59 # definitions for __xpg4 and __xpg6. Because /usr/lib/values-xpg6.o was
60 # delivered in Solaris 10 and is a stable interface, there is no need to
61 # build and link with a local version of the object.
```

new/usr/src/cmd/getconf/Makefile

2

```
62 #
63 # The gcc compiler behaves differently and requires -std=gnu99.
64 #
65 # For XPG4, we need to link with a local version of values-xpg4.o because
66 # the compiler only imports this by default (from /usr/lib/values-xpg4.o)
67 # if we use the c89 utility as opposed to cc.

69 XPG6MODE = $(C99_ENABLE)
70 $(XPG6) := C99MODE = $(XPG6MODE)
71 $(XPG6) := CFLAGS += -D_XOPEN_SOURCE=600 -I$(SRC)/lib/libc/inc

73 .KEEP_STATE:

75 all: $(PROG) $(XPG4) $(XPG6)

77 $(PROG): $(OBJS)
78 $(LINK.c) -o $@ $(OBJS) $(LDLIBS)
79 $(POST_PROCESS)

81 $(XPG4): $(X4) $(XPG4EXOBJ)
82 $(LINK.c) -o $@ $(XPG4EXOBJ) $(LDLIBS)
83 $(POST_PROCESS)

85 $(XPG6): $(X6) $(XPG6EXOBJ)
86 $(LINK.c) -o $@ $(XPG6EXOBJ) $(LDLIBS)
87 $(POST_PROCESS)

90 $(XPG4EXOBJ): $(X4)

93 $(X4)/%.o: %.c
94 $(COMPILE.c) -o $@ $<

97 $(X4):
98 -@mkdir -p $@

101 $(XPG6EXOBJ): $(X6)

104 $(X6)/%.o: %.c
105 $(COMPILE.c) -o $@ $<

108 $(X6):
109 -@mkdir -p $@

112 install: all $(ROOTPROG) $(ROOTXPG4PROG) $(ROOTXPG6PROG)

114 values-xpg4.o: ../../lib/crt/common/values-xpg4.c
115 $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg4.c
114 values-xpg4.o: ../../lib/common/common/values-xpg4.c
115 $(COMPILE.c) -o $@ ../../lib/common/common/values-xpg4.c

117 clean:
118 -@rm -rf $(OBJS) $(XPG4EXOBJ) $(XPG6EXOBJ) $(X4) $(X6) \
119 $(PROG) $(XPG4) $(XPG6)

121 lint: lint_PROG

123 include ../Makefile.targ
```


new/usr/src/cmd/link/Makefile

1

```
*****
1522 Mon Sep  4 19:56:00 2017
new/usr/src/cmd/link/Makefile
8609 want a position independent CRT
*****
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26 # Copyright 2015 RackTop Systems.
27 #

29 PROG= link
30 XPG4PROG= link
31 OBJS= link.o

33 include ../Makefile.cmd

35 clean $(XPG4) := OBJS += values-xpg4.o

37 FILEMODE= 0555

39 CERRWARN += _gcc=-Wno-parentheses

41 .KEEP_STATE:

43 all: $(PROG) $(XPG4)

45 $(PROG) $(XPG4): $$OBJS
46     $(LINK.c) -o $@ $(OBJS) $(LDLIBS)
47     $(POST_PROCESS)

49 install: all $(ROOTUSRsbinPROG) $(ROOTXPG4PROG)
50     -$(RM) $(ROOTETCPROG)
51     -$(SYMLINK) ../usr/sbin/$(PROG) $(ROOTETCPROG)

53 values-xpg4.o: ../../lib/crt/common/values-xpg4.c
54     $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg4.c
53 values-xpg4.o: ../../lib/common/common/values-xpg4.c
54     $(COMPILE.c) -o $@ ../../lib/common/common/values-xpg4.c

56 clean:
57     $(RM) $(OBJS)

59 lint: lint_PROG
```

new/usr/src/cmd/link/Makefile

2

```
61 include ../Makefile.targ
```

new/usr/src/cmd/mv/Makefile

1

```
*****
2664 Mon Sep  4 19:56:00 2017
new/usr/src/cmd/mv/Makefile
8609 want a position independent CRT
*****
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20 #
21 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
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23 #

25 PROG=          mv
26 XPG4PROG=      mv
27 OBJS1=         mv.o
28 OBJS=          $(OBJS1) getresponse.o
29 CPFILE=        cp
30 LNFILE=        ln
31 XPG4OBJS=      $(OBJS:%.o=xpg4_%.o)
32 SRCS=          $(OBJS1:%.o=%.c) $(SRC)/common/util/getresponse.c

34 ROOTLINKS=     $(ROOTBIN)/$(CPFILE) $(ROOTBIN)/$(LNFILE)
35 ROOTXPG4LINKS= $(ROOTXPG4BIN)/$(CPFILE) $(ROOTXPG4BIN)/$(LNFILE)

37 include ../Makefile.cmd

39 clean $(XPG4) := OBJS += values-xpg4.o

41 CLOBBERFILES += $(CPFILE) $(LNFILE)
42 CFLAGS +=      $(CCVERBOSE)
43 CERRWARN +=    _gcc=-Wno-parentheses
44 CERRWARN +=    _gcc=-Wno-unused-variable
45 CERRWARN +=    _gcc=-Wno-uninitialized
46 $(XPG4) :=     CFLAGS += -DXPG4
47 LINTFLAGS +=   -DXPG4 -u
48 XGETFLAGS +=   -a -x mv.xcl
49 CPPFLAGS +=    -D_FILE_OFFSET_BITS=64 -I $(SRC)/common/util

51 lint := LDLIBS += -lcmdutils -lavl -lsec -lnvpair
52 $(PROG) := LDLIBS += -lcmdutils -lavl -lsec -lnvpair
53 $(XPG4) := LDLIBS += -lcmdutils -lavl -lsec -lnvpair

55 .KEEP_STATE:

57 all:          $(PROG) $(CPFILE) $(LNFILE) $(XPG4)

59 $(PROG):      $$$(OBJS)
60               $(LINK.c) -o $$@ $(OBJS) $(LDLIBS)
61               $(POST_PROCESS)
```

new/usr/src/cmd/mv/Makefile

2

```
63 $(XPG4):      $$$(XPG4OBJS)
64               $(LINK.c) -o $$@ $(XPG4OBJS) $(LDLIBS)
65               $(POST_PROCESS)

67 %.o:          $(SRC)/common/util/%.c
68               $(COMPILE.c) $(OUTPUT_OPTION) $<
69               $(POST_PROCESS_O)

71 xpg4_%.o:     %.c
72               $(COMPILE.c) -o $$@ $<
73               $(POST_PROCESS_O)

75 xpg4_%.o:     $(SRC)/common/util/%.c
76               $(COMPILE.c) -o $$@ $<
77               $(POST_PROCESS_O)

79 %values-xpg4.o:  ../lib/crt/common/values-xpg4.c
80               $(COMPILE.c) -o $$@ ../lib/crt/common/values-xpg4.c
79 %values-xpg4.o:  ../lib/common/common/values-xpg4.c
80               $(COMPILE.c) -o $$@ ../lib/common/common/values-xpg4.c

82 $(CPFILE):    $(PROG)
83               @$ (RM) $(CPFILE); $(LN) $(PROG) $(CPFILE)

85 $(LNFILE):    $(PROG)
86               @$ (RM) $(LNFILE); $(LN) $(PROG) $(LNFILE)

88 install: all $(ROOTXPG4PROG) $(ROOTLINKS) $(ROOTXPG4LINKS)

90 $(ROOTLINKS): $(ROOTPROG)
91               $(RM) $$@
92               $(LN) $(ROOTPROG) $$@

94 $(ROOTXPG4LINKS): $(ROOTXPG4PROG)
95               $(RM) $$@
96               $(LN) $(ROOTXPG4PROG) $$@

98 clean:
99               $(RM) $(OBJS) $(XPG4OBJS)

101 lint: lint_SRCS

103 include ../Makefile.targ
```

new/usr/src/cmd/nice/Makefile

1

1378 Mon Sep 4 19:56:01 2017

new/usr/src/cmd/nice/Makefile

8609 want a position independent CRT

```
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21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 PROG= nice
28 XPG4PROG= nice
29 OBJS= nice.o

31 include ../Makefile.cmd
32 CFLAGS += $(CCVERBOSE)

34 clean $(XPG4) := OBJS += values-xpg4.o

36 .KEEP_STATE:

38 all: $(PROG) $(XPG4)

40 $(PROG) $(XPG4): $$OBJS
41     $(LINK.c) -o $@ $(OBJS) $(LDLIBS)
42     $(POST_PROCESS)

44 install: all $(ROOTPROG) $(ROOTXPG4PROG)

46 values-xpg4.o: ../../lib/crt/common/values-xpg4.c
47     $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg4.c
48 values-xpg4.o: ../../lib/common/common/values-xpg4.c
49     $(COMPILE.c) -o $@ ../../lib/common/common/values-xpg4.c

49 clean:
50     $(RM) $(OBJS)

52 lint: lint_PROG

54 include ../Makefile.targ
```

new/usr/src/cmd/sgs/0@0/amd64/Makefile

1

1163 Mon Sep 4 19:56:01 2017

new/usr/src/cmd/sgs/0@0/amd64/Makefile

8609 want a position independent CRT

```
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22 #
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25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 CRTSRCS = $(SRC)/lib/crt/amd64
29 CRTSRCS = $(SRC)/lib/common/amd64

29 include $(SRC)/cmd/sgs/0@0/Makefile.com

31 ASFLAGS += -D__amd64 $(amd64_ASFLAGS)

33 .KEEP_STATE:

35 install: all $(ROOTLIBDIR64)/$(DYNLIB)

37 include $(SRC)/cmd/sgs/0@0/Makefile.targ
38 include ../../Makefile.sub.64
```

new/usr/src/cmd/sgs/0@0/i386/Makefile

1

1084 Mon Sep 4 19:56:01 2017

new/usr/src/cmd/sgs/0@0/i386/Makefile

8609 want a position independent CRT

```
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22 #
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25 #
26 #ident "%Z%M% %I% %E% SMI"

27 CRTSRCS= $(SRC)/lib/crt/i86
28 CRTSRCS= $(SRC)/lib/common/i386
29 include $(SRC)/cmd/sgs/0@0/Makefile.com

30 .KEEP_STATE:

32 include $(SRC)/cmd/sgs/0@0/Makefile.targ

34 install: all $(ROOTDYNLIB)
```

new/usr/src/cmd/sgs/0@0/sparc/Makefile

1

1082 Mon Sep 4 19:56:02 2017

new/usr/src/cmd/sgs/0@0/sparc/Makefile

8609 want a position independent CRT

```
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25 #
26 #ident "%Z%M% %I% %E% SMI"

27 CRTSRCS= $(SRC)/lib/crt/sparcv7
28 CRTSRCS= $(SRC)/lib/common/sparc

29 include $(SRC)/cmd/sgs/0@0/Makefile.com

31 .KEEP_STATE:

33 include $(SRC)/cmd/sgs/0@0/Makefile.targ

35 install: all $(ROOTDYNLIB)
```

new/usr/src/cmd/sgs/0@0/sparcv9/Makefile

1

1131 Mon Sep 4 19:56:02 2017

new/usr/src/cmd/sgs/0@0/sparcv9/Makefile

8609 want a position independent CRT

```
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25 #
26 #ident "%Z%M% %I% %E% SMI"
27 CRTSRCS= $(SRC)/lib/crt/sparcv9
28 CRTSRCS= $(SRC)/lib/common/sparcv9
29 include $(SRC)/cmd/sgs/0@0/Makefile.com
30 .KEEP_STATE:
31
32 install: all $(ROOTLIBDIR64)/$(DYNLIB)
33
34 include $(SRC)/cmd/sgs/0@0/Makefile.targ
35 include ../../Makefile.sub.64
```

new/usr/src/cmd/sgs/rtld/amd64/Makefile

1

2457 Mon Sep 4 19:56:03 2017

new/usr/src/cmd/sgs/rtld/amd64/Makefile

8609 want a position independent CRT

```
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19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 2004, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 BASEPLAT = amd64
27 #
28 # Object lists are organized into primary (most frequently used code) and
29 # secondary lists (less frequently used code, ie. a.out support).
30 #
31 P_COMOBSJ= debugdata.o \
32 analyze.o elf.o external.o globals.o \
33 malloc.o paths.o setup.o util.o \
34 dlfns.o config_elf.o locale.o tsort.o \
35 remove.o move.o tls.o cap.o
36 #
37 S_COMOBSJ= debug.o audit.o object.o
38 #
39 G_MACHOBSJ= doreloc.o
40 #
41 P_MACHOBSJ= amd64_elf.o _setup.o dlamd64getunwind.o
42 #
43 CP_MACHOBSJ=
44 #
45 S_MACHOBSJ=
46 #
47 P_ASOBJ= boot.o boot_elf.o caller.o
48 #
49 S_ASOBJ=
50 #
51 CRTSRCS= ../../../../lib/crt/amd64
52 CRTSRCS= ../../../../lib/common/amd64
53 CRTI= pics/crti.o
54 CRTN= pics/crtn.o
55 CRTS= $(CRTI) $(CRTN)
56 include $(SRC)/cmd/sgs/rtld/Makefile.com
57 include $(SRC)/lib/Makefile.lib.64
58 #
59 # We build 64-bit objects with gcc by default
60 MAPFILE-ORDER = ../common/mapfile-order-devpro
```

new/usr/src/cmd/sgs/rtld/amd64/Makefile

2

```
61 $(__GNUCC64)MAPFILE-ORDER = ../common/mapfile-order-gcc
62 #
63 # Add any machine specific flags.
64 #
65 CFLAGS += -xregs=no%appl
66 ASFLAGS += -D__amd64 -D_ELF64 $(amd64_ASFLAGS)
67 ADBGENFLAGS += -mlp64
68 ADBGENCFLAGS += -erroff=%all
69 ADBSUB= $(ADBSUB64)
70 CPPFLAGS += -D_ELF64
71 LINTFLAGS64 += $(VAR_LINTFLAGS64)
72 SONAME= /lib/amd64/ld.so.1
73 #
74 SGMSGTARG += $(SGMSGINTEL) $(SGMSGINTEL64) $(SGMSG64)
75 #
76 LDLIB = -L ../../libld/$(MACH64)
77 RTLDLIB = -L ../../librtld/$(MACH64)
78 #
79 CPICLIB = $(CPICLIB64)
80 LDDBGLIBDIR = $(LDDBGLIBDIR64)
81 CONVLIBDIR = $(CONVLIBDIR64)
82 #
83 .KEEP_STATE:
84 #
85 all: $(RTLD)
86 #
87 install: all $(ROOTDYNLIB64)
88 #
89 lint: $(LINTOUT64)
90 #
91 adbmacos: adb .WAIT $(ADBSSCRIPTS)
92 #
93 adbinstall: adbmacos .WAIT $(ROOTADB64)
94 #
95 include $(SRC)/cmd/sgs/rtld/Makefile.targ
96 include ../../Makefile.sub.64
```



```

*****
2131 Mon Sep  4 19:56:03 2017
new/usr/src/cmd/sgs/rtld/i386/Makefile
8609 want a position independent CRT
*****
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24 #
25 #
26 BASEPLAT =      i386
27 #
28 # Object lists are organized into primary (most frequently used code) and
29 # secondary lists (less frequently used code, ie. profiling support).
30 #
31 P_COMOBSJ=      debugdata.o \
32                 analyze.o      elf.o          external.o     globals.o \
33                 malloc.o       paths.o       setup.o       util.o \
34                 dlfns.o        config_elf.o locale.o      tsort.o \
35                 remove.o       move.o        tls.o         cap.o
36 #
37 S_COMOBSJ=      debug.o          audit.o        object.o
38 #
39 G_MACHOBSJ=     doreloc.o
40 #
41 P_MACHOBSJ=     i386_elf.o      _setup.o
42 #
43 CP_MACHOBSJ=
44 #
45 S_MACHOBSJ=
46 #
47 P_ASOBJ=       boot.o           boot_elf.o    caller.o
48 #
49 S_ASOBJ=
50 #
51 CRTSRCS=       ../../../../lib/crt/i386
52 CRTSRCS=       ../../../../lib/common/i386
53 CRTI=          pics/crti.o
54 CRTN=          pics/crtn.o
55 CRTS=          $(CRTI)      $(CRTN)
56 include        $(SRC)/Makefile.master
57 #
58 # This is safe because linking is done only with the primary compiler.
59 MAPFILE-ORDER =  ../common/mapfile-order-devpro
60 $(__GNUC)MAPFILE-ORDER =  ../common/mapfile-order-gcc

```

```

62 include        $(SRC)/cmd/sgs/rtld/Makefile.com
63 #
64 # Add any machine specific flags.
65 #
66 ADBGENCFLAGS += -erroff=%all
67 ADBGENFLAGS += -milp32
68 ADBSUB=        $(ADBSUB32)
69 SONAME=        /lib/ld.so.1
70 #
71 SGMSGTARG +=   $(SGMSGINTEL) $(SGMSGINTEL32) $(SGMSG32)
72 #
73 .KEEP_STATE:
74 #
75 all:           $(RTLD)
76 #
77 install:       all $(ROOTDYNLIB)
78 #
79 lint:          $(LINTOUT32)
80 #
81 adbm macros:   adb .WAIT $(ADBSUBSCRIPTS)
82 #
83 adbinstall:    adbm macros .WAIT $(ROOTADB)
84 #
85 include        $(SRC)/cmd/sgs/rtld/Makefile.targ

```

new/usr/src/cmd/sgs/rtld/sparc/Makefile

1

```
*****
2371 Mon Sep  4 19:56:03 2017
new/usr/src/cmd/sgs/rtld/sparc/Makefile
8609 want a position independent CRT
*****
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21 #
22 #
23 # Copyright (c) 1990, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 # Object lists are organized into primary (most frequently used code) and
27 # secondary lists (less frequently used code, ie. a.out support).
28 #
29 P_COMOBSJ=  debugdata.o \
30             analyze.o      elf.o          external.o    globals.o \
31             malloc.o       paths.o       setup.o      util.o \
32             dlfcn.o        config_elf.o locale.o     tsort.o \
33             remove.o       move.o        tls.o        cap.o
34 #
35 S_COMOBSJ=  debug.o          audit.o       object.o     cache_a.out.o \
36             a.out.o
37 #
38 G_MACHOBSJ= doreloc.o
39 #
40 P_MACHOBSJ= sparc_elf.o  _setup.o
41 #
42 CP_MACHOBSJ= common_sparc.o
43 #
44 S_MACHOBSJ= sparc_a.out.o
45 #
46 P_ASOBJ=    boot.o          boot_elf.o   caller.o
47 #
48 S_ASOBJ=    boot_a.out.o
49 #
50 CRTSRCS=    ../../../../lib/crt/sparcv7
50 CRTSRCS=    ../../../../lib/common/sparc
51 CRTI=       pics/crti.o
52 CRTN=       pics/crtn.o
53 CRTS=       $(CRTI)          $(CRTN)
54 #
55 CHKSRC=     $(SRCBASE)/uts/common/krtld/reloc.h
56 #
57 BASEPLAT =  sparc
58 #
59 include     $(SRC)/Makefile.master
```

new/usr/src/cmd/sgs/rtld/sparc/Makefile

2

```
61 # This is safe because linking is done only with the primary compiler.
62 MAPFILE-ORDER =      ../common/mapfile-order-devpro
63 $(__GNUCC)MAPFILE-ORDER =  ../common/mapfile-order-gcc
64 #
65 include          $(SRC)/cmd/sgs/rtld/Makefile.com
66 #
67 # Add any a.out and machine specific flags.
68 #
69 CPPFLAGS +=      -I../../../../../uts/sparc/krtld -DA_OUT
70 CFLAGS +=        -xregs=no%appl
71 ASFLAGS +=       -K pic
72 LINTFLAGS +=     -DA_OUT
73 ADBGENCFLAGS +=  -erroff=%all
74 ADBGENFLAGS +=   -milp32
75 ADBSUB=          $(ADBSUB32)
76 SONAME=          /lib/ld.so.1
77 #
78 SGSMMSGTARG +=   $(SGSMMSGSPARC) $(SGSMMSGSPARC32) $(SGSMMSG32)
79 #
80 .KEEP_STATE:
81 #
82 all:             $(RTLD)
83 #
84 install:        all $(ROOTDYNLIB)
85 #
86 lint:           $(LINTOUT32)
87 #
88 adbmacros:      adb .WAIT $(ADBSSCRIPTS)
89 #
90 adbinstall:     adbmacros .WAIT $(ROOTADB)
91 #
92 include         $(SRC)/cmd/sgs/rtld/Makefile.targ
```

new/usr/src/cmd/sgs/rtld/sparcv9/Makefile

1

```
*****
2655 Mon Sep  4 19:56:04 2017
new/usr/src/cmd/sgs/rtld/sparcv9/Makefile
8609 want a position independent CRT
*****
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21 #
22 #
23 # Copyright (c) 1997, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 # Object lists are organized into primary (most frequently used code) and
27 # secondary lists (less frequently used code, ie. a.out support).
28 #
29 P_COMOBSJ=  debugdata.o \
30             analyze.o      elf.o          external.o    globals.o \
31             malloc.o       paths.o       setup.o      util.o \
32             dlfn.o         config_elf.o locale.o     tsort.o \
33             remove.o       tls.o        move.o
34 #
35 S_COMOBSJ=  debug.o          audit.o       object.o
36 #
37 G_MACHOBSJ= doreloc.o
38 #
39 P_MACHOBSJ= sparc_elf.o  _setup.o
40 #
41 CP_MACHOBSJ= common_sparc.o
42 #
43 S_MACHOBSJ=
44 #
45 P_ASOBJ=    boot.o          boot_elf.o   caller.o
46 #
47 S_ASOBJ=
48 #
49 CRTSRCS=    ../../../../lib/crt/sparcv9
49 CRTSRCS=    ../../../../lib/common/sparcv9
50 CRTI=       pics/crti.o
51 CRTN=       pics/crtn.o
52 CRTS=       $(CRTI)          $(CRTN)
53 #
54 CHKSRCS=    $(SRCBASE)/uts/common/krtld/reloc.h
55 #
56 BASEPLAT =  sparc
57 #
58 include     $(SRC)/Makefile.master
59 #
60 # We build sparc objects with cc by default
```

new/usr/src/cmd/sgs/rtld/sparcv9/Makefile

2

```
61 MAPFILE-ORDER =      ../common/mapfile-order-devpro
62 $(__GNUC64)MAPFILE-ORDER =  ../common/mapfile-order-gcc
63 #
64 include      $(SRC)/cmd/sgs/rtld/Makefile.com
65 include      $(SRC)/lib/Makefile.lib.64
66 #
67 # Add any machine specific flags.
68 #
69 CPPFLAGS +=  -I../../../../../uts/sparc/krtld
70 CFLAGS +=    -xregs=no%appl
71 ASFLAGS +=   -s -K pic -D__sparcv9 -D_ELF64 $(sparcv9_XARCH)
72 ADBGENFLAGS += -mlp64
73 ADBGENCFLAGS += -erroff=%all
74 ADBSUB=      $(ADBSUB64)
75 CPPFLAGS +=  -D_ELF64
76 LINTFLAGS64 += $(VAR_LINTFLAGS64)
77 SONAME=      /lib/sparcv9/ld.so.1
78 #
79 SGMSGTARG +=  $(SGMSGSPARC) $(SGMSGSPARC64) $(SGMSG64)
80 #
81 LDLIB =      -L ../../libld/$(MACH64)
82 RTLDLIB =    -L ../../librtld/$(MACH64)
83 #
84 CPICLIB =     $(CPICLIB64)
85 LDBGLIBDIR = $(LDBGLIBDIR64)
86 CONVLIBDIR = $(CONVLIBDIR64)
87 #
88 #
89 .KEEP_STATE:
90 #
91 all:         $(RTLD)
92 #
93 install:     all $(ROOTDYNLIB64)
94 #
95 lint:        $(LINTOUT64)
96 #
97 adbm macros: adb .WAIT $(ADBSSCRIPTS)
98 #
99 adbinstall:  adbm macros .WAIT $(ROOTADB64)
100 #
101 pics/%.o:    ../../sparc/%.c
102             $(COMPILE.c) -o $@ $<
103             $(POST_PROCESS_O)
104 #
105 include      $(SRC)/cmd/sgs/rtld/Makefile.targ
106 include      ../../Makefile.sub.64
```

new/usr/src/cmd/vi/port/Makefile

1

```
*****
4786 Mon Sep  4 19:56:04 2017
new/usr/src/cmd/vi/port/Makefile
8609 want a position independent CRT
*****
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21 #
22 #
23 # Copyright 2010 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 #
27 # cmd/vi/port/Makefile
28 #
29 PROG= ex
30 XPG4PROG= ex
31 XPG6PROG= ex
32 LIBPROGS= expreserve exrecover
33 XD4= exobjs.xpg4
34 XD6= exobjs.xpg6
35 #
36 EXOBSJS= bcopy.o ex.o ex_addr.o ex_cmds.o ex_cmds2.o \
37     ex_cmdsub.o ex_data.o ex_extern.o ex_get.o \
38     ex_io.o ex_put.o ex_re.o ex_set.o ex_subr.o \
39     ex_temp.o ex_tty.o ex_unix.o ex_v.o ex_vadj.o \
40     ex_vget.o ex_vmain.o ex_voper.o ex_vops.o \
41     ex_vops2.o ex_vops3.o ex_vput.o ex_vwind.o \
42     printf.o
43 EXOBSJS_XPG4= $(EXOBSJS) compile.o values-xpg4.o
44 EXOBSJS_XPG6= $(EXOBSJS) compile.o values-xpg6.o
45 XPG4EXOBSJS= ${EXOBSJS_XPG4:%=${XD4}/%}
46 XPG6EXOBSJS= ${EXOBSJS_XPG6:%=${XD6}/%}
47 EXRECOVEROBSJS= exrecover.o ex_extern.o
48 OBSJS= $(EXOBSJS) $(XPG4EXOBSJS) $(XPG6EXOBSJS) expreserve.o exrecover.o
49 SRCS= $(EXOBSJS:%.o=%.c) expreserve.c exrecover.c
50 TXTS= READ_ME makeoptions asfix.c70 ex.news port.mk.370 port.mk.70 \
51     port.mk.c70 port.mk.usg ovdoprnt.s ovprintf.c rofix
52 #
53 include ../../Makefile.cmd
54 #
55 CERRWARN += -_gcc=-Wno-implicit-function-declaration
56 CERRWARN += -_gcc=-Wno-clobbered
57 CERRWARN += -_gcc=-Wno-parentheses
58 CERRWARN += -_gcc=-Wno-unused-variable
59 CERRWARN += -_gcc=-Wno-unused-label
60 CERRWARN += -_gcc=-Wno-unused-value
61 CERRWARN += -_gcc=-Wno-uninitialized
```

new/usr/src/cmd/vi/port/Makefile

2

```
62 CERRWARN += -_gcc=-Wno-address
63 #
64 #
65 # For message catalogue files
66 #
67 POFILES= $(EXOBSJS:%.o=%.po) expreserve.po exrecover.po
68 POFILE= port.po
69 #
70 # Include all XPG4 and XPG4ONLY changes in the XPG4 version
71 $(XPG4) := CFLAGS += -DXPG4 -DXPG4ONLY
72 #
73 # Include all XPG4 changes, but don't include XPG4ONLY in the XPG6 version
74 $(XPG6) := CFLAGS += -DXPG4 -DXPG6 -I$(SRC)/lib/libc/inc
75 #
76 CPPFLAGS += -DUSG -DSTDIO -DVMUNIX -DTABS=8 -DSINGLE -DTAG_STACK
77 #
78 # vi maintains its own versions of various routines from libc and libcurses,
79 # so localize all symbols to avoid name space collisions.
80 LDFLAGS += $(MAPFILE.NGB:%=-M%)
81 #
82 CLOBBERFILES += $(LIBPROGS)
83 ex := LDLIBS += -lmapmalloc -lcurses -lgen -lcrypt_i
84 $(XPG4) := LDLIBS += -lmapmalloc -lcurses -lgen -lcrypt_i
85 $(XPG6) := LDLIBS += -lmapmalloc -lcurses -lgen -lcrypt_i
86 exrecover := LDLIBS += -lmapmalloc -lcrypt_i
87 lint := LDLIBS += -lmapmalloc -lcurses -lgen -lcrypt
88 #
89 ROOTLIBPROGS= $(LIBPROGS:%=$(ROOTLIB)/%)
90 #
91 # hard links to ex
92 ROOTLINKS= $(ROOTBIN)/edit $(ROOTHASBIN)/edit $(ROOTBIN)/vedit \
93     $(ROOTHASBIN)/vedit $(ROOTHASBIN)/vi $(ROOTHASBIN)/view \
94     $(ROOTXPG4BIN)/vi $(ROOTXPG4BIN)/view $(ROOTXPG4BIN)/edit \
95     $(ROOTXPG4BIN)/vedit
96 ROOTXPG4LINKS= $(ROOTXPG4BIN)/vi $(ROOTXPG4BIN)/view $(ROOTXPG4BIN)/edit \
97     $(ROOTXPG4BIN)/vedit
98 ROOTXPG6LINKS= $(ROOTXPG6BIN)/vi $(ROOTXPG6BIN)/view $(ROOTXPG6BIN)/edit \
99     $(ROOTXPG6BIN)/vedit
100 .KEEP_STATE:
101 .PARALLEL: $(OBSJS)
102 #
103 all: $(PROG) $(XPG4) $(XPG6) $(LIBPROGS)
104 #
105 $(PROG): $(EXOBSJS)
106 $(LINK.c) $(EXOBSJS) -o $@ $(LDLIBS)
107 $(POST_PROCESS)
108 #
109 ex.xpg4: $(XD4) $(XPG4EXOBSJS)
110 $(LINK.c) $(XPG4EXOBSJS) -o $@ $(LDLIBS)
111 $(POST_PROCESS)
112 #
113 ex.xpg6: $(XD6) $(XPG6EXOBSJS)
114 $(LINK.c) $(XPG6EXOBSJS) -o $@ $(LDLIBS)
115 $(POST_PROCESS)
116 #
117 $(XD4)/compile.o $(XD6)/compile.o: ../../expr/compile.c
118 $(COMPILE.c) -o $@ ../../expr/compile.c
119 #
120 %values-xpg4.o: ../../lib/crt/common/values-xpg4.c
121 $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg4.c
122 %values-xpg4.o: ../../lib/common/common/values-xpg4.c
123 $(COMPILE.c) -o $@ ../../lib/common/common/values-xpg4.c
124 #
125 %values-xpg6.o: ../../lib/crt/common/values-xpg6.c
126 $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg6.c
127 %values-xpg6.o: ../../lib/common/common/values-xpg6.c
```

```
124 $(COMPILE.c) -o $@ ../../../../lib/common/common/values-xpg6.c
126 $(XPG4EXOBJS): $(XD4)
128 $(XPG6EXOBJS): $(XD6)
130 $(XD4)/%.o: %.c
131 $(COMPILE.c) -o $@ $<
133 $(XD6)/%.o: %.c
134 $(COMPILE.c) -o $@ $<
136 $(XD4):
137 -@mkdir -p $@
139 $(XD6):
140 -@mkdir -p $@
142 exrecover: $(EXRECOVEROBS)
143 $(LINK.c) $(EXRECOVEROBS) -o $@ $(LDLIBS)
144 $(POST_PROCESS)
146 catalog: $(MSGDOMAIN) $(POFILE)
148 $(POFILE): $(POFILES)
149 $(RM) $@
150 cat $(POFILES) > $@
153 install: all $(ROOTHASBINPROG) $(ROOTLIBPROGS) $(ROOTLINKS) \
154 $(ROOTXPG4PROG) $(ROOTXPG4LINKS) $(ROOTXPG6PROG) $(ROOTXPG6LINKS)
156 $(ROOTLINKS): $(ROOTHASBINPROG)
157 -$(RM) $@
158 -$(LN) -f $(ROOTHASBINPROG) $@
160 $(ROOTXPG4LINKS): $(ROOTXPG4PROG)
161 -$(RM) $@
162 -$(LN) -f $(ROOTXPG4PROG) $@
164 $(ROOTXPG6LINKS): $(ROOTXPG6PROG)
165 -$(RM) $@
166 -$(LN) -f $(ROOTXPG6PROG) $@
168 clean:
169 $(RM) $(OBS)
171 lint: lint_SRCS
173 include ../../Makefile.targ
```

new/usr/src/cmd/vi/port/inc.flg

1

970 Mon Sep 4 19:56:04 2017

new/usr/src/cmd/vi/port/inc.flg

8609 want a position independent CRT

```
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23 #
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26 #
27 # ident "%Z%M% %I% %E% SMI"
28 #
```

```
28 echo_file usr/src/cmd/expr/compile.c
```

```
31 echo_file usr/src/lib/common/common/values-xpg4.c
32 echo_file usr/src/lib/common/common/values-xpg6.c
33 echo_file usr/src/lib/libc/inc/xpg6.h
```

```

*****
14427 Mon Sep  4 19:56:05 2017
new/usr/src/lib/Makefile
8609 want a position independent CRT
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24 # Copyright (c) 2012 by Delphix. All rights reserved.
25 # Copyright (c) 2012, Joyent, Inc. All rights reserved.
26 # Copyright (c) 2013 Gary Mills
27 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 # Copyright (c) 2015 Gary Mills
29 # Copyright 2016 Toomas Soome <tsoome@me.com>
30 # Copyright 2017 Nexenta Systems, Inc.
31 #
32 #
33 include ../Makefile.master
34 #
35 # Note that libcurses installs commands along with its library.
36 # This is a minor bug which probably should be fixed.
37 # Note also that a few extra libraries are kept in cmd source.
38 #
39 # Certain libraries are linked with, hence depend on, other libraries.
40 # Library dependencies are called out explicitly, see "Library
41 # interdependencies" below.
42 .PARALLEL:
43 #
44 # Build libc and its dependencies
45 SUBDIRS=
46 crt \
46 common \
47 ../cmd/sgs/libconv \
48 ../cmd/sgs/libdl \
49 libc \
50 .WAIT
51 #
52 # Build libraries with lots of dependents
53 SUBDIRS +=
54 libm \
55 libmd \
56 libmp \
57 libnsl \
58 libnvpair \
59 libsocket \
60 .WAIT

```

```

62 # Build everything else. Aside from explicit dependencies, all libraries
63 # are built in parallel.
64 SUBDIRS +=
65 ../cmd/sendmail/libmilter \
66 ../cmd/sgs/libelf \
67 ../cmd/sgs/librtld_db \
68 abi \
69 auditd_plugins \
70 brand \
71 c_synonyms \
72 cfgadm_plugins \
73 crypt_modules \
74 extendedFILE \
75 fm \
76 getloginx \
77 gss_mechs/mech_dh \
78 gss_mechs/mech_dummy \
79 gss_mechs/mech_krb5 \
80 gss_mechs/mech_spnego \
81 hal \
82 hbaapi \
83 krb5 \
84 libadm \
85 libads \
86 libadt_jni \
87 libadutils \
88 libaio \
89 libast \
90 libavl \
91 libbe \
92 libbrand \
93 libbsdmalloc \
94 libbsm \
95 libc_db \
96 libcfgadm \
97 libcmd \
98 libcmdutils \
99 libcommputil \
100 libcontract \
101 libcpc \
102 libcrypt \
103 libcryptoutil \
104 libctf \
105 libcurses \
106 libdevice \
107 libdevinfo \
108 libdevinfo \
109 libdhcpgent \
110 libdhcputil \
111 libdisasm \
112 libdiskmgt \
113 libdladm \
114 libdl \
115 libdlpi \
116 libdns_sd \
117 libdoor \
118 libdscfg \
119 libdtrace \
120 libdtrace_jni \
121 libefi \
122 libelfsign \
123 libeti \
124 libexacct \
125 libexacct/demo \
126 libfakekernel \

```

new/usr/src/lib/Makefile

127 libfcoe //
128 libficl //
129 libfru //
130 libfruutils //
131 libfsmgt //
132 libfstyp //
133 libgen //
134 libgrubmgmt //
135 libgss //
136 libhotplug //
137 libidmap //
138 libilb //
139 libima //
140 libinetsvc //
141 libinetutil //
142 libinstzones //
143 libintl //
144 libipadm //
145 libipd //
146 libipmi //
147 libipmp //
148 libipp //
149 libipseutil //
150 libiscsit //
151 libkmf //
152 libkrb5 //
153 libkstat //
154 libkvm //
155 libldap5 //
156 liblgrp //
157 liblm //
158 libml //
159 libmail //
160 libmalloc //
161 libmapid //
162 libmapmalloc //
163 libmd5 //
164 libmtmalloc //
165 libmvec //
166 libndmp //
167 libnisdb //
168 libnls //
169 libnsctl //
170 libnwam //
171 libofmt //
172 libpam //
173 libpcidb //
174 libpctx //
175 libpicl //
176 libpicltree //
177 libpkg //
178 libpool //
179 libpp //
180 libproc //
181 libproject //
182 libpthread //
183 libraidcfg //
184 librcm //
185 librdc //
186 libreparse //
187 libresolv //
188 libresolv2 //
189 librestart //
190 librpcsvc //
191 librsn //
192 librstp //

3

new/usr/src/lib/Makefile

193 librt //
194 libsas1 //
195 libscf //
196 libsched //
197 libsectp //
198 libsec //
199 libsecdb //
200 libsendfile //
201 libshare //
202 libshell //
203 libsip //
204 libslldap //
205 libslp //
206 libsmbfs //
207 libsmbios //
208 libsmmedia //
209 libsqlite //
210 libsrpt //
211 libstmf //
212 libstmfproxy //
213 libsum //
214 libsun_ima //
215 libsys //
216 libsysevent //
217 libtecla //
218 libtermcap //
219 libthread //
220 libtnf //
221 libtnfctl //
222 libtnfprobe //
223 libtsnet //
224 libtsol //
225 libumem //
226 libunistat //
227 libuuid //
228 libuutil //
229 libvolmgt //
230 libvrrpadm //
231 libvscan //
232 libw //
233 libwanboot //
234 libwanbootutil //
235 libwrap //
236 libxcurses //
237 libxcurses2 //
238 libxnet //
239 libzfs //
240 libzfs_core //
241 libzfs_jni //
242 libzonecfg //
243 libzoneinfo //
244 libzonestat //
245 libzpool //
246 madv //
247 mpapi //
248 mpss //
249 nametoaddr //
250 ncad_addr //
251 nsswitch //
252 pam_modules //
253 passwdutil //
254 pkcs11 //
255 policykit //
256 print //
257 pylibbe //
258 pysolaris //

4

new/usr/src/lib/Makefile

```

259     pyzfs          \
260     raidcfg_plugins \
261     rpcsec_gss     \
262     sasl_plugins   \
263     scsi           \
264     smbdrv        \
265     smhba         \
266     sun_fc        \
267     sun_sas       \
268     udapl         \
269     watchmalloc   \
270     $(MACH)_SUBDIRS)

272 i386_SUBDIRS= \
273     libfdisk    \
274     libsaveargs

276 sparc_SUBDIRS= \
277     efcodes    \
278     libds      \
279     libdscp    \
280     libprtdiag \
281     libprtdiag_psr \
282     libpri     \
283     librsc     \
284     storage    \
285     libpccp    \
286     libtsalarm \
287     libv12n

289 #
290 # Create a special version of $(SUBDIRS) with no .WAIT's, for use with the
291 # clean and clobber targets (for more information, see those targets, below).
292 #
293 NOWAIT_SUBDIRS=$(SUBDIRS:.WAIT=)

295 DCSSUBDIRS=

297 MSGSUBDIRS= \
298     abi          \
299     auditd_plugins \
300     brand        \
301     cfgadm_plugins \
302     gss_mechs/mech_dh \
303     gss_mechs/mech_krb5 \
304     krb5         \
305     libast       \
306     libbsm      \
307     libc        \
308     libcfgadm   \
309     libcmd      \
310     libcontract \
311     libcurses   \
312     libdhcputil \
313     libdiskmgt \
314     libdladm    \
315     libdll      \
316     libgrubmgt  \
317     libgss      \
318     libidmap    \
319     libilb     \
320     libinstzones \
321     libipadm    \
322     libipmp     \
323     libipsecutil \
324     libldap5

```

5

new/usr/src/lib/Makefile

```

325     libnsl       \
326     libnwam     \
327     libofmt     \
328     libpam      \
329     libpicl     \
330     libpkg      \
331     libpool     \
332     libpp       \
333     libreparse  \
334     libsas1     \
335     libscf      \
336     libsecdb    \
337     libshare    \
338     libshell    \
339     libslldap   \
340     libslp      \
341     libsmbfs    \
342     libsmmedia  \
343     libsum      \
344     libtsol     \
345     libuutil    \
346     libvrrpadm \
347     libvscan    \
348     libwanboot  \
349     libwanbootutil \
350     libzfs      \
351     libzonecfg  \
352     madv        \
353     mpss        \
354     pam_modules \
355     pyzfs       \
356     rpcsec_gss  \
357     $(MACH)_MSGSUBDIRS)

359 sparc_MSGSUBDIRS= \
360     libprtdiag    \
361     libprtdiag_psr

363 i386_MSGSUBDIRS= libfdisk

365 HDRSUBDIRS= \
366     ../cmd/sendmail/libmilter \
367     auditd_plugins \
368     fm \
369     hal \
370     hbaapi \
371     libads \
372     libast \
373     libbrand \
374     libbsm \
375     libc \
376     libcmd \
377     libcmdutils \
378     libcommputil \
379     libcontract \
380     libcpc \
381     libcryptoutil \
382     libctf \
383     libcurses \
384     libdevice \
385     libdevvid \
386     libdevinfo \
387     libdhcpcagent \
388     libdhcputil \
389     libdisasm \
390     libdiskmgt

```

6

new/usr/src/lib/Makefile

```

391 libldadm //
392 libdll //
393 libdlpi //
394 libdns_sd //
395 libdscfg //
396 libdtrace //
397 libdtrace_jni //
398 libelfsign //
399 libeti //
400 libfakekernel //
401 libfcoe //
402 libfru //
403 libfstyp //
404 libgen //
405 libgrubmgmt //
406 libidmap //
407 libilb //
408 libima //
409 libinetsvc //
410 libinetutil //
411 libinstzones //
412 libipadm //
413 libipd //
414 libipmi //
415 libipmp //
416 libipp //
417 libipsecutil //
418 libiscsit //
419 libkrb5 //
420 libkstat //
421 libkvm //
422 libmail //
423 libmapid //
424 libmd //
425 libmtmalloc //
426 libndmp //
427 libnsctl //
428 libnsl //
429 libnvpair //
430 libnwam //
431 libofmt //
432 libpam //
433 libpcidb //
434 libpctx //
435 libpicl //
436 libpicltree //
437 libpool //
438 libpp //
439 libproc //
440 libraidcfg //
441 librcm //
442 librdc //
443 libreparse //
444 librestart //
445 librpcsvc //
446 librsn //
447 librstp //
448 libsas1 //
449 libscf //
450 libsec //
451 libshare //
452 libshell //
453 libsip //
454 libslp //
455 libsmbs //
456 libsmbios //

```

7

new/usr/src/lib/Makefile

```

457 libsmmedia //
458 libsocket //
459 libsqlite //
460 libsrpt //
461 libstmf //
462 libstmfproxy //
463 libsum //
464 libsun_ima //
465 libsysevent //
466 libtecla //
467 libtermcap //
468 libtnf //
469 libtnfctl //
470 libtnfprobe //
471 libtsnet //
472 libtsol //
473 libumem //
474 libunistat //
475 libuutil //
476 libvolmgt //
477 libvrrpadm //
478 libvscan //
479 libwanboot //
480 libwanbootutil //
481 libwrap //
482 libxcurses2 //
483 libzfs //
484 libzfs_core //
485 libzfs_jni //
486 libzoneinfo //
487 libzonestat //
488 mpapi //
489 passwdutil //
490 pkcs11 //
491 policykit //
492 scsi //
493 smbdrv //
494 smhba //
495 udapl //
496 $(MACH)_HDRSUBDIRS)

498 i386_HDRSUBDIRS= //
499 libfdisk //
500 libsaveargs //

502 sparc_HDRSUBDIRS= //
503 libds //
504 libdscp //
505 libpri //
506 libvl2n //
507 storage

509 all := TARGET= all
510 check := TARGET= check
511 clean := TARGET= clean
512 clobber := TARGET= clobber
513 install := TARGET= install
514 install_h := TARGET= install_h
515 lint := TARGET= lint
516 _dc := TARGET= _dc
517 _msg := TARGET= _msg

519 .KEEP_STATE:

521 #
522 # For the all and install targets, we clearly must respect library

```

8

```

523 # dependencies so that the libraries link correctly. However, for
524 # the remaining targets (check, clean, clobber, install_h, lint, _dc
525 # and _msg), libraries do not have any dependencies on one another
526 # and thus respecting dependencies just slows down the build.
527 # As such, for these rules, we use pattern replacement to explicitly
528 # avoid triggering the dependency information. Note that for clean,
529 # clobber and lint, we must use $(NOWAIT_SUBDIRS) rather than
530 # $(SUBDIRS), to prevent '.WAIT' from expanding to '.WAIT-noddepend'.
531 #

533 all:                $(SUBDIRS)

535 install:            $(SUBDIRS) .WAIT install_extra

537 # extra libraries kept in other source areas
538 install_extra:
539     @cd ../cmd/sgs; pwd; $(MAKE) install_lib
540     @pwd

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

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

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

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

550 # Library interdependencies are called out explicitly here.
551 ../cmd/sgs/libconv: crt
552 ../cmd/sgs/libdl: crt
553 lib:                ../cmd/sgs/libconv ../cmd/sgs/libdl

555 libm:               libc
556 libmd:              libc
557 libmp:              libc
558 libnsl:             libc libmd libmp
559 libnvpair:          libc libnsl
560 libsocket:          libc libnsl

562 basedeps:           libc libm libmd libmp libnsl libnvpair libsocket
563 basedeps :=         TARGET=install

565 # The following dependencies are currently required by libdbus-1 and should
566 # be used for anything linking against it.
567 dbusdeps:           libsecdb libtsol libinetutil libscf libuutil libgen libsmbios

569 # The following dependencies don't need to be listed below as they are built
570 # before everything else:
571 # libc libm libmd libmp libnsl libnvpair libsocket
572 abi:                libctf libmapmalloc libproc
573 auditd_plugins:    libbsm libsecdb libgss libmtmalloc
574 brand:              libzonecfg libmapmalloc
575 cfgadm_plugins:    libdevice libdevinfo libhotplug librcm hbaapi libkstat libscf
576 fm:                 libexacct libipmi libzfs scsi libdevinfo libdevid libcfgadm \
577                   libcontract libsysevent ../cmd/sgs/libelf
578 $(SPARC_BLD)fm:    libpri
579 gss_mechs/mech_dh:  libgss
580 gss_mechs/mech_dummy: libgss
581 gss_mechs/mech_krb5: libgss libresolv2 pkcs11 libkstat
582 gss_mechs/mech_spnego: gss_mechs/mech_krb5
583 hal:                dbusdeps
584 krb5:               gss_mechs/mech_krb5 libtecla libldap5
585 libadt_jni:         libbsm
586 libadutils:         libldap5 libresolv2

```

```

587 libbe:             libzfs libinstzones libuuid libgen libdevinfo libefi libfiel
588 libbsm:             libinetutil libscf libsecdb libtsol
589 libcfgadm:         libdevinfo
590 libcmd:             libsum libast
591 libcmdutils:       libavl
592 libpcp:             libpctx
593 libcrypt:           libgen
594 libdevid:           libdevinfo
595 libdevinfo:         libsec libgen
596 libdhcpageant:     libdhcputil libuuid libdlpi libcontract
597 libdhcputil:       libgen libinetutil libdlpi
598 libdiskmgt:         libdevid libdevinfo libadm libefi libkstat libsysevent
599 $(INTEL_BLD)libdiskmgt: libfdisk
600 libdladm:           libdevinfo libinetutil libscf librcm libexacct libkstat \
601                   libpool
602 libdll:             libast
603 libdlpi:            libinetutil libdladm
604 libds:              libsysevent
605 libdsctf:           libnsctl libunistat libadm
606 libdtrace:         libproc libgen libctf libmapmalloc
607 libdtrace_jni:     libuutil libdtrace
608 libefi:             libuuid
609 libelfsign:         libcryptoutil libkmf ../cmd/sgs/libelf
610 libeti:             libcurses
611 libexacct/demo:    libexacct libproject
612 libfakekernel:     libumem libcryptoutil
613 libfcoe:            libdladm
614 libfiel:           libuuid libumem
615 libfru:             libfruutils
616 libfsmgt:          libkstat
617 libgrubmgt:         libdevinfo libzfs libfstyp libefi
618 $(INTEL_BLD)libgrubmgt: libfdisk
619 libidmap:           libavl libuutil
620 libinetsvc:         libscf
621 libinstzones:      libzonecfg libcontract
622 libipadm:           libinetutil libdlpi libdhcpageant libdladm libsecdb
623 libipmp:            libinetutil
624 libipseutil:       libtecla libtsol
625 libiscsit:         libstmf libuuid
626 libkmf:             libcryptoutil pkcs11
627 libkvm:             ../cmd/sgs/libelf
628 libldap5:          libsasl
629 libmapid:           libresolv2 libscf
630 libndmp:            libscf
631 libnisdb:           libldap5
632 libnwam:            libscf libbsm libdladm
633 libpcp:             libumem libdevinfo
634 libpctx:            libproc
635 libpkg:             libwanboot libscf libadm
636 libpool:           libscf libexacct
637 libpp:              libast
638 libproc:            ../cmd/sgs/librtld_db ../cmd/sgs/libelf libctf
639 $(INTEL_BLD)libproc: libsaveargs
640 libproject:         libpool libproc libsecdb
641 libprtdiag:         libkstat
642 libprtdiag_psr:    libprtdiag
643 libraidcfg:         libdevinfo
644 librdc:             libnsctl libunistat libdsctf
645 librestart:         libuutil libscf libpool libproject libsecdb libsysevent
646 libsasl:            libgss pkcs11
647 libsaveargs:       libdisasm
648 libscf:             libuutil libgen libsmbios
649 libsec:             libavl libidmap
650 libshare:           libscf libzfs libuuid libfsmgt libsecdb libumem libsmbios
651 libshell:           libast libcmd libdll libsecdb
652 libsip:             libmd5

```

```

653 libslldap:      libldap5 libscf
654 libsmbfs:      libkrb5 libsec libidmap pkcs11
655 libsmbios:     libdevinfo
656 libsrpt:       libstmf
657 libstmf:       libscf
658 libstmfproxy:  libstmf libpthread
659 libsum:        libast
660 libsum_ima:    libdevinfo libsysevent
661 libsysevent:   libsecdb
662 libtecla:      libcurses
663 libtermcap:    libcurses
664 libtnfctl:     ../cmd/sgs/libelf
665 libtsalarm:    libpcp
666 libtsnet:      libtsol libsecdb
667 libtsol:       libsecdb
668 libuuid:       libdlpi
669 libv12n:       libds libuuid
670 libvolmgt:     libadm
671 libvrrpadm:    libldadm libscf
672 libvscan:      libscf libsecdb
673 libwanboot:    libresolv2 libdevinfo libinetutil libdhcputil
674 libzfs:        libdevinfo libgen libuutil libadm libavl libefi libidmap \
675               libumem libtsol libzfs_core
676 libzfs_jni:    libdiskmgt libzfs
677 libzonecfg:    libuuid libsysevent libsec libbrand libpool libscf libproc \
678               libuutil libbsm libsecdb
679 libzonestat:   libcmdutils libumem
680 libzpool:      libavl libumem libcmdutils libsysevent
681 madv:          libgen
682 mpapi:         libpthread libdevinfo libsysevent
683 mps:           libgen
684 nsswitch:      libadutils libidmap libdns_sd libscf libldap5 libslldap
685 pam_modules:  libproject passwdutil smbstrv libtsnet libpam libbsm libsecdb
686 passwdutil:   libslldap
687 pkcs11:        libcryptoutil libgen libuuid
688 policykit:     dbusdeps
689 print:         libldap5 libmd5 libsendfile
690 pylibbe:       libbe libzfs
691 pysolaris:    libsec libidmap
692 pyzfs:         libzfs
693 raidcfg_plugins: libraidcfg librcm libcfgadm libpicl libpicltree
694 rpcsec_gss:    libgss
695 sasl_plugins:  pkcs11 libgss libsasl
696 scsi:          libfru libumem libdevinfo libdevinfo
697 smbsrv:        libxnet libpthread librt libshare libidmap pkcs11 libsqlite \
698               libcryptoutil librepase libcmdutils libresolv2 libsmbfs \
699               libuuid libfakekernel libads libgss libldap5 krb5
700 storage:       libdevice libdevinfo libdevinfo
701 sun_fc:        libdevinfo libsysevent
702 sun_sas:       libdevinfo libsysevent libkstat libdevinfo
703 udapl:         libdevinfo libldadm

```

```

705 #
706 # The reason this rule checks for the existence of the
707 # Makefile is that some of the directories do not exist
708 # in certain situations (e.g., exportable source builds,
709 # OpenSolaris).
710 #
711 $(SUBDIRS): FRC
712     @if [ -f $@/Makefile ]; then \
713         cd $@; pwd; $(MAKE) $(TARGET); \
714     else \
715         true; \
716     fi

```

```
718 $(SUBDIRS:%=%-nodepend):
```

```

719     @if [ -f $(@:%-nodepend=)/Makefile ]; then \
720         cd $(@:%-nodepend=); pwd; $(MAKE) $(TARGET); \
721     else \
722         true; \
723     fi
725 FRC:

```

new/usr/src/lib/crt/Makefile

1

```
*****
1231 Mon Sep  4 19:56:06 2017
new/usr/src/lib/crt/Makefile
8609 want a position independent CRT
*****
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 include ../Makefile.lib

29 SUBDIRS = $(MACH32)
31 SUBDIRS = $(MACH)
30 $(BUILD64)SUBDIRS += $(MACH64)

32 all := TARGET= all
33 install := TARGET= install
34 clean := TARGET= clean
35 clobber := TARGET= clobber
36 lint := TARGET= lint
37 #endif /* ! codereview */

39 .KEEP_STATE:

41 all install clean clobber lint: $(SUBDIRS)
38 all install clean clobber: $(SUBDIRS)

40 lint:

43 $(SUBDIRS): FRC
44 @cd $@; pwd; $(MAKE) $(TARGET)

46 FRC:
```

```
*****
```

```
2546 Mon Sep 4 19:56:06 2017
```

```
new/usr/src/lib/crt/Makefile.com
```

```
8609 want a position independent CRT
```

```
*****
```

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
```

```
26 CRTI = crti.o
27 CRTN = crtn.o
28 CRT1 = crt1.o
29 VALUES = values-Xa.o values-Xc.o values-Xs.o values-Xt.o \
30         values-xpg4.o values-xpg6.o
31 COMMON_CRT = common-crt.o
32 MACH_CRT = mach-crt1.o
```

```
34 # include library definitions
35 include ../../Makefile.lib
```

```
37 SRCS = $(VALUES:%.o=../common/%.c) $(COMMON_CRT:%.o=../common/%.c)
```

```
39 POST_PROCESS_O = $(PROCESS_COMMENT) $@ ; $(STRIP) -x $@
```

```
41 OBJECTS = $(VALUES) $(CRT1) $(CRTI) $(CRTN)
```

```
43 ROOTLIB= $(ROOT)/usr/lib
44 ROOTLIB64= $(ROOTLIB)/$(MACH64)
45 ROOTOBJECTS= $(OBJECTS:%=$(ROOTLIB)/%)
46 ROOTOBJECTS64= $(OBJECTS:%=$(ROOTLIB64)/%)
```

```
48 $(INTEL_BLD)ROOTOBJECTS += $(ROOTLIB)/gcrt1.o
49 $(INTEL_BLD)ROOTOBJECTS64 += $(ROOTLIB64)/gcrt1.o
```

```
51 ASFLAGS += -P -D_STDC__ -D_ASM -DPIC $(AS_PICFLAGS)
```

```
53 values-xpg6.o := CPPFLAGS += -I$(SRC)/lib/libc/inc
54 values-xpg6.lint := CPPFLAGS += -I$(SRC)/lib/libc/inc
55 $(COMMON_CRT) $(VALUES) := CFLAGS += $(C_PICFLAGS)
56 $(COMMON_CRT) $(VALUES) := CFLAGS64 += $(C_PICFLAGS64)
```

```
58 .KEEP_STATE:
```

```
60 all: $(OBJECTS)
```

```
62 clean clobber:
63     $(RM) $(OBJECTS)

65 %.lint: ../common/%.c
66     $(LINT.c) $(LINTCHECKFLAGS) $<

68 lint: $(VALUES:%.o=%.lint) $(COMMON_CRT:%.o=%.lint)

70 $(CRT1): $(COMMON_CRT) $(MACH_CRT)
71     $(LD) -r $(MACH_CRT) $(COMMON_CRT) -o $(CRT1)

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

77 %.o: %.s
78     $(COMPILE.s) -o $@ $<
79     $(POST_PROCESS_O)

81 %.o: ../$(MACH)/%.s
82     $(COMPILE.s) -o $@ $<
83     $(POST_PROCESS_O)

85 # install rule for ROOTOBJECTS and ROOTOBJECTS64
86 $(ROOTLIB)/%.o: %.o
87     $(INS.file)

89 $(ROOTLIB)/gcrt1.o:
90     $(RM) $(ROOTLIB)/gcrt1.o; $(SYMLINK) crt1.o $(ROOTLIB)/gcrt1.o

92 $(ROOTLIB64)/%.o: %.o
93     $(INS.file)

95 $(ROOTLIB64)/gcrt1.o:
96     $(RM) $(ROOTLIB64)/gcrt1.o; $(SYMLINK) crt1.o $(ROOTLIB64)/gcrt1.o

98 FRC:
99 #endif /* ! codereview */
```

new/usr/src/lib/crt/amd64/Makefile

1

1003 Mon Sep 4 19:56:07 2017

new/usr/src/lib/crt/amd64/Makefile

8609 want a position independent CRT

```
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

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

30 install: $(ROOTOBJECTS64)
```

```

*****
2749 Mon Sep  4 19:56:07 2017
new/usr/src/lib/crt/amd64/mach-crt1.s
8609 want a position independent CRT
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

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

27 #include <sys/asm_linkage.h>

29     .file    "mach-crt1.s"

31     .global _start_crt

33 /*
34  * The SVR4/i386 ABI (pages 3-29) says that when the entry
35  * point runs registers' %rbp, %rsp, %rdx values are specified
36  * the following:
37  *
38  * %rbp The content of this register is unspecified at
39  *      process initialization time, but the user code should mark
40  *      the deepest stack frame by setting the frame pointer to zero.
41  *      No other frame's %ebp should have a zero value.
42  *
43  * %rsp Performing its usual job, the stack pointer holds the address
44  *      of the bottom of the stack, which is guaranteed to be
45  *      quadword aligned.
46  *
47  *      The stack contains the arguments and environment:
48  *
49  *      ...
50  *      envp[0]          (16+(8*argc))(%rsp)
51  *      NULL            (8+(8*argc))(%rsp)
52  *      ...
53  *      argv[0]         8(%rsp)
54  *      argc            0(%rsp)
55  *
56  * %rdx In a conforming program, this register contains a function
57  *      pointer that the application should register with atexit(BA_OS).
58  *      This function is used for shared object termination code
59  *      [see Dynamic Linking in Chapter 5 of the System V ABI].
60  */

```

```

62 ENTRY_NP(_start)
63 /*
64  * Allocate a NULL return address and a NULL previous %rbp as if
65  * there was a genuine call to _start.
66  */
67     pushq   $0
68     pushq   $0
69     movq    %rsp,%rbp          /* The first stack frame */

71 /*
72  * The stack now is
73  *
74  *      envp[0]          (32+(8*argc))(%rsp)    - (A)
75  *      NULL            (24+(8*argc))(%rsp)
76  *      ...
77  *      argv[0]         24(%rbp)                - (B)
78  *      argc            16(%rbp)
79  *      0                8(%rbp)
80  *      0                0(%rbp)
81  */

83     andq   $-16,%rsp          /* align the stack */
84     movq   16(%rbp),%rdi      /* argc */
85     leaq  24(%rbp),%rsi      /* argv */
86     /* NB: rt_do_exit, if applicable, is already in %rdx */
87     call  _start_crt
88     hlt
89 SET_SIZE(_start)

91 /*
92  * The following is here in case any object module compiled with cc -p
93  * was linked into this module.
94  */
95 ENTRY_NP(_mcount)
96     .weak  _mcount
97     ret
98 SET_SIZE(_mcount)
99 #endif /* ! codereview */

```


new/usr/src/lib/crt/common/common-crt.c

1

```
*****
2255 Mon Sep  4 19:56:08 2017
new/usr/src/lib/crt/common/common-crt.c
8609 want a position independent CRT
*****
1 /*
2  * This file and its contents are supplied under the terms of the
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4  * You may only use this file in accordance with the terms of version
5  * 1.0 of the CDDL.
6  *
7  * A full copy of the text of the CDDL should have accompanied this
8  * source.  A copy of the CDDL is also available via the Internet at
9  * http://www.illumos.org/license/CDDL.
10 */

12 /*
13  * Copyright 2016, Richard Lowe.
14  */

16 /*
17  * That of the CRT startup routine which itself may be implemented in C.
18  */

20 #include <sys/feature_tests.h>
21 #include <sys/types.h>

23 #include <stdlib.h>
24 #include <synch.h>
25 #include <unistd.h>

27 #pragma weak _DYNAMIC
28 extern uintptr_t _DYNAMIC;

30 #pragma weak environ = _environ
31 char **_environ = NULL;
32 char **__Argv = NULL;

34 extern int main(int argc, char **argv, char **envp);
35 extern void _init(void);
36 extern void _fini(void);

38 #pragma weak _startCRT_compiler
39 extern void _startCRT_compiler(int argc, char **argv);

41 #if defined(__x86)
42 int __longdouble_used = 0;
43 extern void __fpstart(void);
44 #endif

46 #if defined(__i386) /* Not amd64 */
47 #pragma weak __fsr_init_value
48 extern long __fsr_init_value;
49 extern void __fsr(uintptr_t);
50 #endif

53 /*
54  * Defined here for ABI reasons, must match the definition in libc.
55  * If it cannot, a new symbol must be created.
56  */
57 mutex_t __environ_lock = DEFAULTMUTEX;

59 void
60 _startCRT(int argc, char **argv, void (*exit_handler)(void))
61 {
```

new/usr/src/lib/crt/common/common-crt.c

2

```
62     int ret = 0;

64     /*
65      * On x86, we check whether we're a dynamic executable to see whether
66      * we'll receive an exit_handler.
67      *
68      * On SPARC, we just need to check whether the handler was NULL.
69      */
70     #if defined(__x86)
71         if (&_DYNAMIC != NULL)
72             (void) atexit(exit_handler);
73     #elif defined(__sparc)
74         if (exit_handler != NULL)
75             (void) atexit(exit_handler);
76     #endif

78     (void) atexit(_fini);

80     _environ = argv + (argc + 1);
81     __Argv = argv;

83     if (&_startCRT_compiler != NULL)
84         _startCRT_compiler(argc, argv);

86     #if defined(__x86)
87         __fpstart();
88     #endif
89     #if defined(__i386) /* Not amd64 */
90         /*
91          * Note that Studio cc(1) sets the _value of the symbol_, that is, its
92          * address. Not the value _at_ that address.
93          */
94         __fsr((uintptr_t)&__fsr_init_value);
95     #endif
96     _init();
97     ret = main(argc, argv, _environ);
98     exit(ret);
99     _exit(ret);
100 }
101 #endif /* ! codereview */
```

new/usr/src/lib/crt/common/values-Xa.c

1

1316 Mon Sep 4 19:56:08 2017

new/usr/src/lib/crt/common/values-Xa.c

8609 want a position independent CRT

```
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 * Use is subject to license terms.
25 */
```

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

```
27 /* Copyright (c) 1988 AT&T */
28 /* All Rights Reserved */
```

```
31 #include <sys/types.h>
32 #include <math.h>
```

```
34 /*
35 * variables which differ depending on the
36 * compilation mode
37 *
38 * ANSI conforming mode
39 * This file is linked into the a.out immediately following
40 * the startup routine if the -Xa compilation mode is selected
41 */
```

```
43 const enum version _lib_version = ansi_1;
```

new/usr/src/lib/crt/common/values-Xc.c

1

1317 Mon Sep 4 19:56:08 2017

new/usr/src/lib/crt/common/values-Xc.c

8609 want a position independent CRT

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22 /*
23 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 * Use is subject to license terms.
25 */
```

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

```
27 /* Copyright (c) 1988 AT&T */
28 /* All Rights Reserved */
```

```
31 #include <sys/types.h>
32 #include <math.h>
```

```
34 /*
35 * variables which differ depending on the
36 * compilation mode
37 *
38 * Strict ANSI mode
39 * This file is linked into the a.out immediately following
40 * the startup routine if the -Xc compilation mode is selected
41 */
```

```
43 const enum version _lib_version = strict_ansi;
```

new/usr/src/lib/crt/common/values-Xs.c

1

```
*****
1409 Mon Sep  4 19:56:09 2017
new/usr/src/lib/crt/common/values-Xs.c
8609 want a position independent CRT
*****
```

```
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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.
25  */
```

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

```
27 /*      Copyright (c) 1988 AT&T */
28 /*      All Rights Reserved      */
```

```
31 #include <sys/types.h>
32 #include <math.h>
```

```
34 /*
35  * variables which differ depending on the
36  * compilation mode
37  *
38  * C Issue 4.2 compatibility mode
39  * This file is linked into the a.out by default if
40  * no compilation mode was specified or if the -Xt option
41  * was specified - the linking occurs if there is an unresolved
42  * reference to _lib_version
43  */
```

```
45 const enum version _lib_version = c_issue_4;
```

new/usr/src/lib/crt/common/values-Xt.c

1

1409 Mon Sep 4 19:56:09 2017

new/usr/src/lib/crt/common/values-Xt.c

8609 want a position independent CRT

```
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25 */
```

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

```
27 /* Copyright (c) 1988 AT&T */
28 /* All Rights Reserved */
```

```
31 #include <sys/types.h>
32 #include <math.h>
```

```
34 /*
35 * variables which differ depending on the
36 * compilation mode
37 *
38 * C Issue 4.2 compatibility mode
39 * This file is linked into the a.out by default if
40 * no compilation mode was specified or if the -Xt option
41 * was specified - the linking occurs if there is an unresolved
42 * reference to _lib_version
43 */
```

```
45 const enum version _lib_version = c_issue_4;
```

new/usr/src/lib/crt/common/values-xpg4.c

1

1174 Mon Sep 4 19:56:10 2017

new/usr/src/lib/crt/common/values-xpg4.c

8609 want a position independent CRT

```
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22 /*
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25 */
```

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

```
27 #include <sys/types.h>
```

```
28 /*
29  * Setting this value to 1 enables XPG4 mode for APIs
30  * which have differing runtime behaviour from XPG3 to XPG4.
31  * See usr/src/lib/libc/port/gen/xpg4.c for the default value.
32  */
```

```
34 int __xpg4 = 1;
```

new/usr/src/lib/crt/common/values-xpg6.c

1

1836 Mon Sep 4 19:56:10 2017

new/usr/src/lib/crt/common/values-xpg6.c

8609 want a position independent CRT

```
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21 */
22 /*
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25 */
27 #pragma ident "%Z%M% %I% %E% SMI"
27 /*
28 * __xpg6 (C99/SUSv3) was first introduced in Solaris 10.
29 *
30 * This file is NOT linked into libc. See xpg6.c.
31 * This value is linked into an application when the application is
32 * requesting conforming C99/SUSv3 behavior. This is usually done
33 * with the c99 utility.
34 *
35 * __xpg6 is used to control certain behaviors between the C99 standard,
36 * the SUSv3 standard, and Solaris. More explanation in inc/xpg6.h.
37 * The XPG6 C compiler utility (c99) will add an object file that contains an
38 * alternate definition for __xpg6. The symbol interposition provided
39 * by the linker will allow libc to find that symbol instead.
40 *
41 * Possible settings are available and documented in inc/xpg6.h.
42 */
44 /*
45 * This setting enables strictly conforming C99/SUSv3 behavior.
46 */
48 #include "xpg6.h"
50 unsigned int __xpg6 = _C99SUSv3_mode_ON;
52 /*
53 * Also turn on XPG4 mode.
54 */
55 int __xpg4 = 1;
```

new/usr/src/lib/crt/i86/Makefile

1

971 Mon Sep 4 19:56:10 2017

new/usr/src/lib/crt/i86/Makefile

8609 want a position independent CRT

```
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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.
25 #
26 # ident "%Z%M% %I% %E% SMI"
```

```
27 include ../Makefile.com
```

```
29 install: $(ROOTOBJECTS)
```


new/usr/src/lib/crt/i86/crti.s

1

```
*****
2222 Mon Sep  4 19:56:11 2017
new/usr/src/lib/crt/i86/crti.s
8609 want a position independent CRT
*****
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24 * All rights reserved.
25 */
26 /*
27 * Copyright (c) 2013, Joyent, Inc. All rights reserved.
28 */

30 /*
31 * These crt*.o modules are provided as the bare minimum required
32 * from a crt*.o for inclusion in building low level system
33 * libraries. The are only be to included in libraries which
34 * contain *no* C++ code and want to avoid the startup code
35 * that the C++ runtime has introduced into the crt*.o modules.
36 *
37 * For further details - see bug#4433015
38 */

40     .file     "crti.s"

42 /*
43 * Note that when _init and _fini are called the stack needs to be 16-byte
44 * aligned with a 4-byte bias. See comment in lib/libc/i386/gen/makecxt.c.
45 *
46 * Note: If you change it, you need to change it in the following files as
47 * well:
48 *
49 * - lib/libc/i386/threads/machdep.c
50 * - lib/libc/i386/gen/makecxt.c
51 * - lib/crt/i86/mach-crt1.s
51 * - lib/common/i386/crt1.s
52 */

54 /*
55 * _init function prologue
56 */
57     .section     .init,"ax"
58     .globl     _init
59     .type      _init,@function
60     .align     16
```

new/usr/src/lib/crt/i86/crti.s

2

```
61 _init:
62     pushl     %ebp
63     movl     %esp, %ebp
64     andl     $-16, %esp
65     subl     $12, %esp
66     pushl     %ebx
67     call     .L1
68 .L1:     popl     %ebx
69     addl     $_GLOBAL_OFFSET_TABLE_+[.-.L1], %ebx

71 /*
72 * _fini function prologue
73 */
74     .section     .fini,"ax"
75     .globl     _fini
76     .type      _fini,@function
77     .align     16
78 _fini:
79     pushl     %ebp
80     movl     %esp, %ebp
81     andl     $-16, %esp
82     subl     $12, %esp
83     pushl     %ebx
84     call     .L2
85 .L2:     popl     %ebx
86     addl     $_GLOBAL_OFFSET_TABLE_+[.-.L2], %ebx
```

new/usr/src/lib/crt/i86/crtn.s

1

1461 Mon Sep 4 19:56:11 2017

new/usr/src/lib/crt/i86/crtn.s

8609 want a position independent CRT

```
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19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright (c) 2001 by Sun Microsystems, Inc.
24 * All rights reserved.
25 */

27 /*
28 * These crt*.o modules are provided as the bare minimum required
29 * from a crt*.o for inclusion in building low level system
30 * libraries. The are only be to included in libraries which
31 * contain *no* C++ code and want to avoid the startup code
32 * that the C++ runtime has introduced into the crt*.o modules.
33 *
34 * For further details - see bug#4433015
35 */
36 .ident "%Z%M% %I% %E% SMI"
36 .file "crtn.s"

38 /*
39 * _init function epilogue
40 */
41 .section .init,"ax"

43 popl %ebx
44 leave
45 ret

47 /*
48 * _fini function epilogue
49 */
50 .section .fini,"ax"

52 popl %ebx
53 leave
54 ret
```

```

*****
3532 Mon Sep  4 19:56:12 2017
new/usr/src/lib/crt/i86/fsr.s
8609 want a position independent CRT
*****
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21 */
22 /*
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25 */
27 #include <sys/asm_linkage.h>
27 .ident  "%Z%M% %I%  %E% SMI"
29 .file   "fsr.s"
31 .section .data
32 .align 4
34 .weak  __fsr_init_value
36 __fsr_init_value_ptr:
37 .4byte __fsr_init_value
38 .type  __fsr_init_value_ptr,@object
39 .size  __fsr_init_value_ptr,4
34 /*
35 * The following table maps trap enable bits in __fsr_init_value
36 * (after shifting right one bit):
37 *
38 * bit 0 - inexact trap
39 * bit 1 - division trap
40 * bit 2 - underflow trap
41 * bit 3 - overflow trap
42 * bit 4 - invalid trap
43 *
44 * to exception masks in the floating point control word
45 *
46 * bit 0 - invalid mask
47 * bit 2 - zero divide mask
48 * bit 3 - overflow mask
49 * bit 4 - underflow mask
50 * bit 5 - inexact mask
51 */
52 .local  trap_table
53 .type  trap_table,@object

```

```

54 trap_table:
55 .byte  0b11111111
56 .byte  0b11011111
57 .byte  0b11111011
58 .byte  0b11011011
59 .byte  0b11101111
60 .byte  0b11001111
61 .byte  0b11101011
62 .byte  0b11001011
63 .byte  0b11110111
64 .byte  0b11010111
65 .byte  0b11110011
66 .byte  0b11010011
67 .byte  0b11100111
68 .byte  0b11000111
69 .byte  0b11100011
70 .byte  0b11000011
71 .byte  0b11111110
72 .byte  0b11011110
73 .byte  0b11111010
74 .byte  0b11011010
75 .byte  0b11101110
76 .byte  0b11001110
77 .byte  0b11101010
78 .byte  0b11001010
79 .byte  0b11110110
80 .byte  0b11010110
81 .byte  0b11110010
82 .byte  0b11010010
83 .byte  0b11100110
84 .byte  0b11000110
85 .byte  0b11100010
86 .byte  0b11000010
88 .size  trap_table,32
90 ENTRY_NP(__fsr)
97 .section .text
98 .align 4
100 .globl  __fsr
101 .type  __fsr,@function
102 __fsr:
91 pushl  %ebp
92 movl   %esp,%ebp
93 pushl  %edx
94 pushl  %ecx
95 pushl  %ebx
96 #endif /* ! codereview */
97 subl  $4,%esp
99 /* Setup PIC */
100 call  9f
101 9: popl   %ebx
102 addl  $_GLOBAL_OFFSET_TABLE_ + [.- 9b], %ebx
104 movl  8(%ebp), %ecx /* the value set by CG is passed in */
107 lea  __fsr_init_value_ptr, %ecx
108 movl  (%ecx),%ecx /* get the value set by CG */
105 shrl  $1,%ecx /* get rid of fns bit */
106 cmpl  $0,%ecx /* if remaining bits are zero */
107 je    3f /* there's nothing to do */
109 fstcw 0(%esp) /* store the control word */
111 movl  %ecx,%edx

```

```
112     andl   $0x1f,%edx           /* get the trap enable bits */
113     movl   trap_table@GOT(%ebx), %eax
114     addl   %eax,%edx
115     movb   (%edx),%al
117     movb   trap_table(%edx),%al
116     andb   %al,0(%esp)         /* unmask the corresponding exceptions */

118     testl  $0x200,%ecx          /* test denormal trap enable */
119     jz     lf                   /* skip if zero */

121     andb   $0xfd,0(%esp)       /* unmask denormal exception */

123 1:
124     movl   %ecx,%edx
125     andl   $0x60,%edx          /* get the rounding direction */
126     jz     lf                   /* skip if zero */

128     movl   %edx,%eax           /* exchange negative<->tozero */
129     andl   $0x20,%eax          /* leaving nearest and positive */
130     shll  $1,%eax              /* as is */
131     xorl   %eax,%edx
132     shll  $5,%edx
133     andw  $0xf3ff,0(%esp)      /* update rounding direction */
134     orw   %dx,0(%esp)

136 1:
137     andl   $0x180,%ecx         /* get the rounding precision */
138     jz     lf                   /* skip if zero */

140     xorl   $0x180,%ecx         /* reverse bits */
141     shll  $1,%ecx
142     andw  $0xfcff,0(%esp)      /* update rounding precision */
143     orw   %cx,0(%esp)

145 1:
146     fldcw  0(%esp)             /* load the modified control word */

148 3:
149     addl   $4,%esp
150     popl   %ebx
151 #endif /* ! codereview */
152     popl   %ecx
153     popl   %edx
154     popl   %ebp
155     ret
156 SET_SIZE(__fsr)

153     .size  __fsr,[-__fsr]
```

```

*****
2392 Mon Sep  4 19:56:12 2017
new/usr/src/lib/crt/i86/mach-crt1.s
8609 want a position independent CRT
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
24  * Use is subject to license terms.
25  */
26 #include <sys/asm_linkage.h>

28     .file     "mach-crt1.s"

30 /* global entities defined elsewhere but used here */
31     .globl   _start_crt

33 /*
34  * C language startup routine.
35  * Assume that exec code has cleared the direction flag in the TSS.
36  * Assume that %esp is set to the addr after the last word pushed.
37  * The stack contains (in order): argc, argv[], envp[], ...
38  * Assume that all of the segment registers are initialized.
39  *
40  * Allocate a NULL return address and a NULL previous %ebp as if
41  * there was a genuine call to _start.
42  * debugger stack trace shows _start(argc,argv[0],argv[1],...,envp[0],...)
43  */
44 ENTRY_NP(_start)
45     pushl   $0
46     pushl   $0
47     movl    %esp,%ebp                /* The first stack frame */

49     /*
50     * The stack needs to be 16-byte aligned with a 4-byte bias.  See
51     * comment in lib/libc/i386/gen/makeectxt.c.
52     *
53     * Note: If you change it, you need to change it in the following
54     * files as well:
55     *
56     * - lib/libc/i386/threads/machdep.c
57     * - lib/libc/i386/gen/makeectxt.c
58     * - lib/crt/i86/crti.s
59     */
60     andl    $-16,%esp                /* make main() and exit() be called with */
61     subl    $4,%esp                  /* a properly aligned stack pointer */

```

```

62     pushl   %edx                    /* possible atexit handler */
63     leal   12(%ebp),%edx            /* argv */
64     movl   8(%ebp),%eax             /* argc */
65     pushl   %edx
66     pushl   %eax
67     call   _start_crt
68     hlt
69 SET_SIZE(_start)

71 #include "fsr.s"

73 /*
74  * The following is here in case any object module compiled with cc -p
75  * was linked into this module.
76  */
77 ENTRY_NP(_mcount)
78     .weak   _mcount
79     ret
80 SET_SIZE(_mcount)
81 #endif /* ! codereview */

```

new/usr/src/lib/crt/sparc/mach-crt1.s

1

1808 Mon Sep 4 19:56:13 2017
new/usr/src/lib/crt/sparc/mach-crt1.s
8609 want a position independent CRT

```
1 /*
2  * This file and its contents are supplied under the terms of the
3  * Common Development and Distribution License ("CDDL"), version 1.0.
4  * You may only use this file in accordance with the terms of version
5  * 1.0 of the CDDL.
6  *
7  * A full copy of the text of the CDDL should have accompanied this
8  * source. A copy of the CDDL is also available via the Internet at
9  * http://www.illumos.org/license/CDDL.
10 */
```

```
12 /*
13  * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
14  * Use is subject to license terms.
15 */
16
17 /* Copyright 2016, Richard Lowe. */
```

```
19 #include <sys/asm_linkage.h>
20 #include <sys/stack.h>
```

```
22 .file "mach-crt1.s"
```

```
24 .global _startCRT
```

```
26 #if defined(__sparcv9)
27 #define EB_MAX_SIZE 128
28 #else
29 #define EB_MAX_SIZE 64
30 #endif
```

```
32 ENTRY_NP(_start)
33 /*
34  * On entry, the stack is:
35  *
36  * ----- %sp
37  *
38  *      Window
39  *
40  * -----
41  *      argc
42  *
43  * -----
44  *      argv[0]
45  *      argv[1]
46  *      argv[2]
47  *      argv[3]
48  *      ...
49  *      argv[argc - 1]
50  *
51  * -----
52  *      NULL
53  *
54  * -----
55  *      envp[0]
56  *      envp[1]
57  *      envp[2]
58  *      envp[3]
59  *      ...
60  *      envp[N]
61  *
62  * -----
63  *      NULL
64  *
65  * -----
```

new/usr/src/lib/crt/sparc/mach-crt1.s

2

```
62  * and an exit handler from the linker is in %g1
63  */
64  clr    %fp          ! don't trace the stack past this point

66  add    %sp, WINDOWSIZE + STACK_BIAS, %l0      ! address of argc

68  ! allocate a minimally sized frame, and align ourselves
69  add    %sp, -SA(MINFRAME - EB_MAX_SIZE), %sp

71  ldn    [%l0], %o0          ! argc
72  add    %l0, CPTRSIZE, %o1 ! argv
73  call   _startCRT
74  mov    %g1, %o2          ! exit_handler in delay slot
75 SET_SIZE(_start)
76 #endif /* ! codereview */
```

new/usr/src/lib/crt/sparcv7/Makefile

1

971 Mon Sep 4 19:56:13 2017

new/usr/src/lib/crt/sparcv7/Makefile

8609 want a position independent CRT

```
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
```

```
27 include ../Makefile.com
```

```
29 install: $(ROOTOBJECTS)
```

new/usr/src/lib/crt/sparcv9/Makefile

1

1003 Mon Sep 4 19:56:13 2017

new/usr/src/lib/crt/sparcv9/Makefile

8609 want a position independent CRT

```
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9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
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12 # and limitations under the License.
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15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
```

```
27 include ../Makefile.com
28 include ../../Makefile.lib.64
```

```
30 install: $(ROOTOBJECTS64)
```


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

1

```
*****
7315 Mon Sep  4 19:56:14 2017
new/usr/src/lib/libc/Makefile.targ
8609 want a position independent CRT
*****
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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.
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14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc.  All rights reserved.
23 # Use is subject to license terms.
24 # Copyright 2016 Joyent, Inc.
25 #
26 #

28 # libc build rules

30 #
31 # This first rule picks up optimized sources for libc variants.
32 #
33 pics/%.o: $(OPTIMIZED_LIBCBASE)/gen/%.s
34     $(BUILD.s)
35     $(POST_PROCESS_O)

37 pics/%.o: $(LIBCBASE)/crt/%.c
38     $(COMPILE.c) -o $@ $<
39     $(POST_PROCESS_O)

41 pics/%.o: $(LIBCBASE)/crt/%.s
42     $(BUILD.s)
43     $(POST_PROCESS_O)

45 pics/%.o: $(LIBCBASE)/gen/%.c
46     $(COMPILE.c) -o $@ $<
47     $(POST_PROCESS_O)

49 pics/%.o: $(LIBCBASE)/gen/%.s
50     $(BUILD.s)
51     $(POST_PROCESS_O)

53 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/gen/%.s
54     $(BUILD.s)
55     $(POST_PROCESS_O)

57 pics/_stack_grow.o: $(LIBCBASE)/../$(TARGET_ARCH)/gen/_stack_grow.s
58     $(BUILD.s) $(LIBCBASE)/../$(TARGET_ARCH)/gen/_stack_grow.s
59     $(POST_PROCESS_O)

61 pics/%.o: $(LIBCBASE)/fp/%.c
```

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

2

```
62     $(COMPILE.c) -o $@ $<
63     $(POST_PROCESS_O)

65 pics/%.o: $(LIBCBASE)/../$(MACH)/fp/%.c
66     $(COMPILE.c) -o $@ $<
67     $(POST_PROCESS_O)

69 pics/%.o: $(LIBCBASE)/fp/%.s
70     $(BUILD.s)
71     $(POST_PROCESS_O)

73 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/fp/%.c
74     $(COMPILE.c) -o $@ $<
75     $(POST_PROCESS_O)

77 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/fp/%.s
78     $(BUILD.s)
79     $(POST_PROCESS_O)

81 pics/%.o: $(LIBCBASE)/sys/%.c
82     $(COMPILE.c) -o $@ $<
83     $(POST_PROCESS_O)

85 pics/%.o: $(LIBCBASE)/../common/sys/%.s
86     $(BUILD.s)
87     $(POST_PROCESS_O)

89 pics/%.o: $(LIBCBASE)/sys/%.s
90     $(BUILD.s)
91     $(POST_PROCESS_O)

93 pics/%.o: $(LIBCBASE)/../$(MACH)/sys/%.s
94     $(BUILD.s)
95     $(POST_PROCESS_O)

97 pics/%.o: $(LIBCBASE)/../$(MACH)/sys/%.c
98     $(COMPILE.c) -o $@ $<
99     $(POST_PROCESS_O)

101 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/sys/%.c
102     $(COMPILE.c) -o $@ $<
103     $(POST_PROCESS_O)

105 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/sys/%.s
106     $(BUILD.s)
107     $(POST_PROCESS_O)

109 # rules to build large file aware objects (xxx64.o from xxx.s or xxx.c)

111 pics/%64.o: $(LIBCBASE)/../common/sys/%.s
112     $(BUILD.s)
113     $(POST_PROCESS_O)

115 pics/%64.o: $(LIBCBASE)/sys/%.s
116     $(BUILD.s)
117     $(POST_PROCESS_O)

119 pics/%64.o: $(LIBCBASE)/gen/%.c
120     $(COMPILE.c) -o $@ $<
121     $(POST_PROCESS_O)

123 pics/%64.o: $(LIBCBASE)/../port/gen/%.c
124     $(COMPILE.c) -o $@ $<
125     $(POST_PROCESS_O)

127 pics/%64.o: $(LIBCBASE)/../port/sys/%.c
```

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

3

```

128     $(COMPILE.c) -o $@ $<
129     $(POST_PROCESS_O)

131 pics/%64.o: $(LIBCBASE)/../port/print/%.c
132     $(COMPILE.c) -o $@ $<
133     $(POST_PROCESS_O)

135 pics/%64.o: $(LIBCBASE)/../port/regex/%.c
136     $(COMPILE.c) -DM_I18N_MB -DI18N \
137     -I$(LIBCBASE)/../port/regex \
138     -I$(LIBCBASE)/../port/gen -o $@ $<
139     $(POST_PROCESS_O)

141 pics/%64.o: $(LIBCBASE)/../port/stdio/%.c
142     $(COMPILE.c) -o $@ $<
143     $(POST_PROCESS_O)

145 pics/%_w.o: $(LIBCBASE)/../port/stdio/%.c
146     $(COMPILE.c) -o $@ $<
147     $(POST_PROCESS_O)

149 pics/%_w.o: $(LIBCBASE)/../port/print/%.c
150     $(COMPILE.c) -o $@ $<
151     $(POST_PROCESS_O)

153 pics/%_pos.o: $(LIBCBASE)/../port/il8n/%.c
154     $(COMPILE.c) -o $@ $<
155     $(POST_PROCESS_O)

157 pics/%_sbyte.o: $(LIBCBASE)/../port/il8n/%.c
158     $(COMPILE.c) -o $@ $<
159     $(POST_PROCESS_O)

161 pics/%_possbyte.o: $(LIBCBASE)/../port/il8n/%.c
162     $(COMPILE.c) -o $@ $<
163     $(POST_PROCESS_O)

165 pics/%_longlong.o: $(LIBCBASE)/../port/il8n/%.c
166     $(COMPILE.c) -o $@ $<
167     $(POST_PROCESS_O)

169 # libc build rules for objects built from "portable" source in ../port

171 pics/%.o: $(LIBCBASE)/../port/fp/%.c
172     $(COMPILE.c) \
173     -I$(LIBCBASE)/../port/fp -o $@ $<
174     $(POST_PROCESS_O)

176 pics/%.o: $(LIBCBASE)/../port/il8n/%.c
177     $(COMPILE.c) \
178     -I$(LIBCBASE)/../port/il8n -o $@ $<
179     $(POST_PROCESS_O)

181 # gen rules
182 pics/%.o %.o: $(LIBCBASE)/../port/gen/%.c
183     $(COMPILE.c) -o $@ $<
184     $(POST_PROCESS_O)

186 # locale rules
187 pics/%.o %.o: $(LIBCBASE)/../port/locale/%.c
188     $(COMPILE.c) -o $@ $<
189     $(POST_PROCESS_O)

191 # print rules
192 pics/%.o: $(LIBCBASE)/../port/print/%.c
193     $(COMPILE.c) -o $@ $<

```

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

4

```

194     $(POST_PROCESS_O)

196 # regex rules
197 pics/%.o: $(LIBCBASE)/../port/regex/%.c
198     $(COMPILE.c) -DM_I18N_MB -DI18N \
199     -I$(LIBCBASE)/../port/regex \
200     -I$(LIBCBASE)/../port/gen -o $@ $<
201     $(POST_PROCESS_O)

203 # stdio rules
204 pics/%.o: $(LIBCBASE)/../port/stdio/%.c
205     $(COMPILE.c) -o $@ $<
206     $(POST_PROCESS_O)

208 # c89 print, stdio rules
209 pics/%_c89.o: $(LIBCBASE)/../port/print/%.c
210     $(COMPILE.c) -o $@ $<
211     $(POST_PROCESS_O)

213 pics/%_c89.o: $(LIBCBASE)/../port/stdio/%.c
214     $(COMPILE.c) -o $@ $<
215     $(POST_PROCESS_O)

217 # aio rules
218 pics/%.o: $(LIBCBASE)/../port/aio/%.c
219     $(COMPILE.c) -o $@ $<
220     $(POST_PROCESS_O)

222 # rt rules
223 pics/%.o: $(LIBCBASE)/../port/rt/%.c
224     $(COMPILE.c) -o $@ $<
225     $(POST_PROCESS_O)

227 # tpool rules
228 pics/%.o: $(LIBCBASE)/../port/tpool/%.c
229     $(COMPILE.c) -o $@ $<
230     $(POST_PROCESS_O)

232 # threads rules
233 pics/%.o: $(LIBCBASE)/../port/threads/%.c
234     $(COMPILE.c) -o $@ $<
235     $(POST_PROCESS_O)

237 pics/%.o: $(LIBCBASE)/threads/%.c
238     $(COMPILE.c) -o $@ $<
239     $(POST_PROCESS_O)

241 pics/%.o: $(LIBCBASE)/threads/%.s
242     $(BUILD.s)
243     $(POST_PROCESS_O)

245 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/threads/%.c
246     $(COMPILE.c) -o $@ $<
247     $(POST_PROCESS_O)

249 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/threads/%.s
250     $(BUILD.s)
251     $(POST_PROCESS_O)

253 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/unwind/%.c
254     $(COMPILE.c) -o $@ $<
255     $(POST_PROCESS_O)

257 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/unwind/%.s
258     $(BUILD.s)
259     $(POST_PROCESS_O)

```

```
261 pics/%.o: $(LIBCBASE)/../port/unwind/%.c
262     $(COMPILE.c) -o $@ $<
263     $(POST_PROCESS_O)

265 pics/%.o: $(LIBCBASE)/../$(MACH)/unwind/%.s
266     $(BUILD.s)
267     $(POST_PROCESS_O)

269 pics/%.o: $(LIBCBASE)/../port/sys/%.c
270     $(COMPILE.c) -o $@ $<
271     $(POST_PROCESS_O)

273 pics/%.o: $(LIBCBASE)/../././crt/common/%.c
273 pics/%.o: $(LIBCBASE)/../././common/common/%.c
274     $(COMPILE.c) -o $@ $<
275     $(POST_PROCESS_O)

277 pics/%.o: $(LIBCBASE)/$(CRTSRCS)/%.s
278     $(BUILD.s)
279     $(POST_PROCESS_O)

281 # $(SRC)/common rules
282 pics/%.o: $(SRC)/common/atomic/$(TARGETMACH)/%.s
283     $(BUILD.s)
284     $(POST_PROCESS_O)

286 $(COMOBSJ:=%=pics/%): $(SRC)/common/util/$(@F:.o=.c)
287     $(COMPILE.c) -o $@ $(SRC)/common/util/$(@F:.o=.c)
288     $(POST_PROCESS_O)

290 $(XATTROBSJ:=%=pics/%): $(SRC)/common/xattr/$(@F:.o=.c)
291     $(COMPILE.c) -o $@ $(SRC)/common/xattr/$(@F:.o=.c)
292     $(POST_PROCESS_O)

294 $(DTRACEOBSJ:=%=pics/%): $(SRC)/common/dtrace/$(@F:.o=.c)
295     $(COMPILE.c) -o $@ $(SRC)/common/dtrace/$(@F:.o=.c)
296     $(POST_PROCESS_O)

298 $(SECFLAGSOBSJ:=%=pics/%): $(SRC)/common/secflags/$(@F:.o=.c)
299     $(COMPILE.c) -o $@ $(SRC)/common/secflags/$(@F:.o=.c)
300     $(POST_PROCESS_O)

302 $(UNICODEOBSJ:=%=pics/%): $(SRC)/common/unicode/$(@F:.o=.c)
303     $(COMPILE.c) -o $@ $(SRC)/common/unicode/$(@F:.o=.c)
304     $(POST_PROCESS_O)

306 $(CHACHAOBSJ:=%=pics/%): $(SRC)/common/crypto/chacha/$(@F:.o=.c)
307     $(COMPILE.c) -I$(SRC)/common/crypto/chacha -DKEYSTREAM_ONLY \
308     -o $@ $(SRC)/common/crypto/chacha/$(@F:.o=.c)
309     $(POST_PROCESS_O)

311 # DTrace rules
312 pics/%.o: $(LIBCBASE)/../port/threads/%.d $(THREADSOBSJ:=%=pics/%)
313     $(COMPILE.d) -C -xlazyload -s $< -o $@ $(THREADSOBSJ:=%=pics/%)
314     $(POST_PROCESS_O)

316 include $(SRC)/lib/Makefile.targ
```

```

*****
23267 Mon Sep 4 19:56:14 2017
new/usr/src/lib/libc/amd64/Makefile
8609 want a position independent CRT
*****
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.
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19 # CDDL HEADER END
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21 #
22 #
23 # Copyright (c) 2004, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2016 Joyent, Inc.
25 # Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved.
26 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
27 # Copyright 2017 Nexenta Systems, Inc.
28 #
29 #
30 LIBCBASE= .
31 LIBCDIR= $(SRC)/lib/libc
32 LIBRARY= libc.a
33 LIB_PIC= libc_pic.a
34 VERS= .1
35 CPP= /usr/lib/cpp
36 TARGET_ARCH= amd64
37 #
38 # include comm page definitions
39 include $(SRC)/lib/commpage/Makefile.shared.com
40 include $(SRC)/lib/commpage/Makefile.shared.targ
41 #
42 # objects are grouped by source directory
43 #
44 # local objects
45 STRETS=
46 #
47 CRTOBSJ= \
48   cerror.o
49 #
50 DYNOBJS=
51 #
52 FPOBJS= \
53   fpgetmask.o \
54   fpgetround.o \
55   fpsetmask.o \
56   fpsetround.o \
57   fpstart.o \
58   ieee.o
59 #
60 I386FPOBJS= \
61   _D_cplx_div.o \

```

```

62   _D_cplx_div_ix.o \
63   _D_cplx_div_rx.o \
64   _D_cplx_lr_div.o \
65   _D_cplx_lr_div_ix.o \
66   _D_cplx_lr_div_rx.o \
67   _D_cplx_mul.o \
68   _F_cplx_div.o \
69   _F_cplx_div_ix.o \
70   _F_cplx_div_rx.o \
71   _F_cplx_lr_div.o \
72   _F_cplx_lr_div_ix.o \
73   _F_cplx_lr_div_rx.o \
74   _F_cplx_mul.o \
75   _X_cplx_div.o \
76   _X_cplx_div_ix.o \
77   _X_cplx_div_rx.o \
78   _X_cplx_lr_div.o \
79   _X_cplx_lr_div_ix.o \
80   _X_cplx_lr_div_rx.o \
81   _X_cplx_mul.o
82 #
83 FPASMOBJS= \
84   __xgetRD.o \
85   _xtoll.o \
86   _xtoull.o \
87   _base_il.o \
88   fpcw.o \
89   fpgetsticky.o \
90   fpsetsticky.o
91 #
92 ATOMICOBJS= \
93   atomic.o
94 #
95 CHACHAOBJS= \
96   chacha.o
97 #
98 KATTOBJS= \
99   xattr_common.o
100 COMOBJS= \
101   bcmp.o \
102   bcopy.o \
103   bsearch.o \
104   bzero.o \
105   qsort.o \
106   strtol.o \
107   strtoul.o \
108   strtoll.o \
109   strtoull.o
110 #
111 GENOBJS= \
112   $(COMMPAGE_OBJS) \
113   _getsp.o \
114   abs.o \
115   alloca.o \
116   arc4random.o \
117   arc4random_uniform.o \
118   attrat.o \
119   byteorder.o \
120   cuexit.o \
121   ecvt.o \
122   endian.o \
123   errlst.o \
124   amd64_data.o \
125   ldivide.o \
126   lock.o \
127   makeectxt.o

```

new/usr/src/lib/libc/amd64/Makefile

```

128     memccpy.o    \
129     memchr.o    \
130     memcmp.o    \
131     memcpy.o    \
132     memset.o    \
133     new_list.o  \
134     proc64_id.o \
135     proc64_support.o \
136     setjmp.o    \
137     siginfolst.o \
138     siglongjmp.o \
139     strcmp.o    \
140     strcpy.o    \
141     strlen.o    \
142     strncmp.o   \
143     strncpy.o   \
144     strnlen.o   \
145     sync_instruction_memory.o

```

```

147 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
148 # This macro should ALWAYS be empty; native APIs are already 'large file'.
149 COMSYSOBSJS64=

```

```

151 SYSOBSJS64=

```

```

153 COMSYSOBSJS= \
154     __clock_timer.o \
155     __getloadavg.o \
156     __rusagesys.o \
157     __signotify.o \
158     __sigrt.o \
159     __time.o \
160     _lgrp_home_fast.o \
161     _lgrpsys.o \
162     _nfssys.o \
163     _portfs.o \
164     _pset.o \
165     _rpcsys.o \
166     _sigaction.o \
167     _so_accept.o \
168     _so_bind.o \
169     _so_connect.o \
170     _so_getpeername.o \
171     _so_getsockname.o \
172     _so_getsockopt.o \
173     _so_listen.o \
174     _so_recv.o \
175     _so_recvfrom.o \
176     _so_recvmsg.o \
177     _so_send.o \
178     _so_sendmsg.o \
179     _so_sendto.o \
180     _so_setsockopt.o \
181     _so_shutdown.o \
182     _so_socket.o \
183     _so_socketpair.o \
184     _sockconfig.o \
185     acct.o \
186     acl.o \
187     adjtime.o \
188     alarm.o \
189     brk.o \
190     chdir.o \
191     chroot.o \
192     cladm.o \
193     close.o \

```

3

new/usr/src/lib/libc/amd64/Makefile

```

194     execve.o    \
195     exit.o      \
196     facl.o      \
197     fchdir.o    \
198     fchroot.o  \
199     fdsync.o    \
200     fpathconf.o \
201     fstatfs.o  \
202     fstatvfs.o \
203     getcpuid.o \
204     getdents.o \
205     getegid.o  \
206     geteuid.o  \
207     getgid.o   \
208     getgroups.o \
209     gethrtime.o \
210     getitimer.o \
211     getmsg.o   \
212     getpid.o   \
213     getpmsg.o  \
214     getppid.o  \
215     getrandom.o \
216     getrlimit.o \
217     getuid.o   \
218     gtty.o     \
219     install_utrap.o \
220     ioctl.o    \
221     kaio.o     \
222     kill.o     \
223     llseek.o   \
224     lseek.o    \
225     mmapobjsys.o \
226     memcntl.o \
227     mincore.o \
228     mmap.o     \
229     modctl.o  \
230     mount.o   \
231     mprotect.o \
232     munmap.o  \
233     nice.o    \
234     ntp_adjtime.o \
235     ntp_gettime.o \
236     p_online.o \
237     pathconf.o \
238     pause.o   \
239     pcsample.o \
240     pipe2.o   \
241     pollsys.o \
242     pread.o   \
243     preadv.o  \
244     priocntlset.o \
245     processor_bind.o \
246     processor_info.o \
247     profil.o  \
248     psecflagsset.o \
249     putmsg.o  \
250     putpmsg.o \
251     pwrite.o  \
252     pwritev.o \
253     read.o    \
254     readv.o   \
255     resolvepath.o \
256     seteguid.o \
257     setgid.o  \
258     setgroups.o \
259     setitimer.o \

```

4

new/usr/src/lib/libc/amd64/Makefile

```

260      setreid.o          \|
261      setrlimit.o       \|
262      setuid.o          \|
263      sigaltstk.o       \|
264      sigprocmsk.o     \|
265      sigsendset.o     \|
266      sigsuspend.o     \|
267      statfs.o          \|
268      statvfs.o        \|
269      stty.o           \|
270      sync.o           \|
271      sysconfig.o      \|
272      sysfs.o          \|
273      sysinfo.o        \|
274      syslwp.o         \|
275      times.o          \|
276      ulimit.o         \|
277      umask.o          \|
278      umount2.o        \|
279      utssys.o         \|
280      uucopy.o         \|
281      vhangup.o        \|
282      waitid.o         \|
283      write.o          \|
284      writev.o         \|
285      yield.o          \|

287 SYSOBJS= \|
288     __clock_gettime.o \|
289     __clock_gettime_sys.o \|
290     __getcontext.o     \|
291     __uadmin.o         \|
292     __lwp_mutex_unlock.o \|
293     __stack_grow.o    \|
294     door.o            \|
295     forkx.o           \|
296     forkallx.o        \|
297     getcontext.o      \|
298     gettimeofday.o    \|
299     lwp_private.o     \|
300     nuname.o          \|
301     syscall.o         \|
302     sysi86.o          \|
303     tls_get_addr.o    \|
304     uadmin.o          \|
305     umount.o          \|
306     uname.o           \|
307     vforkx.o          \|

309 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
310 # This macro should ALWAYS be empty; native APIs are already 'large file'.
311 PORTGEN64=

313 # objects from source under $(LIBCDIR)/port
314 PORTFP= \|
315     __flt_decim.o     \|
316     __flt_rounds.o   \|
317     __tbl_10_b.o     \|
318     __tbl_10_h.o     \|
319     __tbl_10_s.o     \|
320     __tbl_2_b.o      \|
321     __tbl_2_h.o      \|
322     __tbl_2_s.o      \|
323     __tbl_fdq.o      \|
324     __tbl_tens.o     \|
325     __x_power.o      \|

```

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new/usr/src/lib/libc/amd64/Makefile

```

326     _base_sup.o      \|
327     aconvert.o       \|
328     decimal_bin.o    \|
329     double_decim.o   \|
330     econvert.o       \|
331     fconvert.o       \|
332     file_decim.o     \|
333     finite.o         \|
334     fp_data.o        \|
335     func_decim.o     \|
336     gconvert.o       \|
337     hex_bin.o        \|
338     ieee_globals.o   \|
339     pack_float.o     \|
340     sigfpe.o         \|
341     string_decim.o   \|

343 PORTGEN= \|
344     _env_data.o      \|
345     _xftw.o          \|
346     a64l.o           \|
347     abort.o          \|
348     addsev.o         \|
349     ascii_strcasecmp.o \|
350     ascii_strncasecmp.o \|
351     assert.o         \|
352     atexit.o         \|
353     atfork.o         \|
354     atof.o           \|
355     atoi.o           \|
356     atol.o           \|
357     atoll.o          \|
358     attropen.o       \|
359     basename.o       \|
360     calloc.o         \|
361     catgets.o        \|
362     catopen.o        \|
363     cfgetispeed.o    \|
364     cfgetospeed.o   \|
365     cfree.o          \|
366     cfsetispeed.o   \|
367     cfsetospeed.o   \|
368     cftime.o         \|
369     clock.o          \|
370     closedir.o       \|
371     closefrom.o      \|
372     confstr.o        \|
373     crypt.o          \|
374     csetlen.o        \|
375     ctime.o          \|
376     ctime_r.o        \|
377     daemon.o         \|
378     default.o        \|
379     directio.o       \|
380     dirname.o        \|
381     div.o            \|
382     drand48.o        \|
383     dup.o            \|
384     env_data.o       \|
385     err.o            \|
386     errno.o          \|
387     euclen.o         \|
388     event_port.o     \|
389     execvp.o         \|
390     explicit_bzero.o \|
391     fattach.o        \|

```

6

```

392      fdetach.o          \
393      fdopendir.o       \
394      ffs.o             \
395      flock.o           \
396      fls.o             \
397      fmtmsg.o          \
398      freezer.o         \
399      ftime.o           \
400      ftok.o            \
401      fts.o             \
402      ftw.o             \
403      gcvt.o            \
404      get_nprocs.o      \
405      getauxv.o         \
406      getcwd.o          \
407      getdate_err.o    \
408      getdtblsize.o    \
409      getentropy.o     \
410      getenv.o          \
411      getexecname.o    \
412      getgrnam.o       \
413      getgrnam_r.o     \
414      gethostid.o      \
415      gethostname.o    \
416      gethz.o           \
417      getisax.o         \
418      getloadavg.o     \
419      getlogin.o        \
420      getmntent.o      \
421      getnetgrent.o    \
422      getopt.o          \
423      getopt_long.o    \
424      getpagesize.o    \
425      getpw.o           \
426      getpwnam.o       \
427      getpwnam_r.o     \
428      getrusage.o      \
429      getspent.o        \
430      getspent_r.o     \
431      getsubopt.o      \
432      gettxt.o          \
433      getusershell.o   \
434      getut.o           \
435      getutx.o          \
436      getvfsent.o      \
437      getwd.o           \
438      getwidth.o       \
439      getxby_door.o    \
440      gtxt.o            \
441      hsearch.o         \
442      iconv.o           \
443      imaxabs.o         \
444      imaxdiv.o        \
445      index.o           \
446      initgroups.o     \
447      insque.o          \
448      isaexec.o         \
449      isastream.o      \
450      isatty.o          \
451      killpg.o          \
452      klpdlib.o        \
453      l64a.o            \
454      lckpwndf.o       \
455      lconstants.o     \
456      lexp10.o         \
457      lfind.o           \

```

```

458      lfmt.o            \
459      lfmt_log.o        \
460      lldiv.o           \
461      llog10.o          \
462      lltostr.o        \
463      lmath.o           \
464      localtime.o      \
465      lsearch.o        \
466      madvise.o        \
467      malloc.o         \
468      memalign.o       \
469      memmem.o         \
470      mkdev.o           \
471      mkdtemp.o        \
472      mkfifo.o         \
473      mkstemp.o        \
474      mktemp.o         \
475      mlock.o          \
476      mlockall.o       \
477      mon.o             \
478      msync.o           \
479      munlock.o        \
480      munlockall.o    \
481      ndbm.o            \
482      nftw.o           \
483      nlspath_checks.o \
484      nsparse.o         \
485      nss_common.o     \
486      nss_dbdefs.o     \
487      nss_deffinder.o  \
488      opendir.o        \
489      opt_data.o       \
490      perror.o         \
491      pfmt.o            \
492      pfmt_data.o      \
493      pfmt_print.o     \
494      pipe.o            \
495      plock.o           \
496      poll.o            \
497      posix_fadvise.o  \
498      posix_fallocate.o \
499      posix_madvise.o  \
500      posix_memalign.o \
501      priocntl.o       \
502      priv_str_xlate.o \
503      privlib.o        \
504      psecflags.o      \
505      psiginfo.o       \
506      psignal.o        \
507      pt.o              \
508      putpwent.o       \
509      putspent.o       \
510      raise.o           \
511      rand.o            \
512      random.o         \
513      rctlops.o        \
514      readdir.o        \
515      readdir_r.o      \
516      reallocarray.o   \
517      reallocarray.o   \
518      realpath.o       \
519      reboot.o         \
520      regexpr.o        \
521      remove.o          \
522      rewinddir.o     \
523      rindex.o         \

```

```

524     scandir.o           \
525     seekdir.o          \
526     select.o           \
527     setlabel.o         \
528     setpriority.o      \
529     settimeofday.o    \
530     sh_locks.o         \
531     sigflag.o          \
532     siglist.o          \
533     sigsend.o          \
534     sigsetops.o        \
535     signal.o           \
536     stack.o            \
537     stpcpy.o           \
538     stpncpy.o          \
539     str2sig.o          \
540     strcase_ormap.o    \
541     strcat.o           \
542     strchr.o           \
543     strchrnul.o        \
544     strcspn.o          \
545     strdup.o           \
546     strerror.o         \
547     strlcat.o          \
548     strlcpy.o          \
549     strncat.o          \
550     strndup.o          \
551     strpbrk.o          \
552     strrchr.o          \
553     strsep.o           \
554     strsignal.o        \
555     strspn.o           \
556     strstr.o           \
557     strtod.o           \
558     strtointmax.o      \
559     strtok.o           \
560     strtok_r.o         \
561     strtonum.o         \
562     strtoumax.o        \
563     swab.o             \
564     swapctl.o          \
565     sysconf.o          \
566     syslog.o           \
567     tcdrain.o          \
568     tcflow.o           \
569     tcflush.o          \
570     tcgetattr.o        \
571     tcgetpgrp.o        \
572     tcgetsid.o         \
573     tcsendbreak.o      \
574     tcsetattr.o        \
575     tcsetpgrp.o        \
576     tell.o             \
577     telldir.o          \
578     tfind.o            \
579     time_data.o        \
580     time_gdata.o       \
581     timespec_get.o     \
582     tls_data.o         \
583     truncate.o         \
584     tsdalloc.o         \
585     tsearch.o          \
586     ttyname.o          \
587     ttyslot.o         \
588     ualarm.o           \
589     ucred.o            \

```

```

590     valloc.o           \
591     vlfmt.o            \
592     vpfmt.o           \
593     waitpid.o          \
594     walkstack.o        \
595     wdata.o            \
596     xgetwidth.o        \
597     xpg4.o             \
598     xpg6.o             \
600 PORTPRINT_W=         \
601     doprnt_w.o         \
603 PORTPRINT=          \
604     asprintf.o         \
605     doprnt.o           \
606     fprintf.o          \
607     printf.o           \
608     snprintf.o         \
609     sprintf.o          \
610     vfprintf.o         \
611     vprintf.o          \
612     vsnprintf.o        \
613     vsprintf.o         \
614     vwprintf.o         \
615     wprintf.o          \
617 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
618 # This macro should ALWAYS be empty; native APIs are already 'large file'.
619 PORTSTDIO64=
621 PORTSTDIO_W=         \
622     doscan_w.o         \
624 PORTSTDIO=          \
625     __extensions.o     \
626     _endopen.o         \
627     _filbuf.o          \
628     _findbuf.o         \
629     _flsbuf.o          \
630     _wrtchk.o          \
631     clearerr.o         \
632     ctermid.o          \
633     ctermid_r.o        \
634     cuserid.o          \
635     data.o             \
636     doscan.o           \
637     fdopen.o           \
638     feof.o             \
639     ferror.o           \
640     fgets.o            \
641     fgetc.o            \
642     fileno.o           \
643     flockf.o           \
644     flush.o            \
645     fopen.o            \
646     fpos.o             \
647     fputc.o            \
648     fputs.o            \
649     fread.o            \
650     fseek.o            \
651     fseeko.o           \
652     ftell.o            \
653     ftello.o           \
654     fwrite.o           \
655     getc.o              \

```



```

656      getchar.o      \
657      getline.o     \
658      getpass.o     \
659      gets.o        \
660      getw.o        \
661      mse.o         \
662      popen.o       \
663      putc.o        \
664      putchar.o    \
665      puts.o        \
666      putw.o        \
667      rewind.o     \
668      scanf.o       \
669      setbuf.o      \
670      setbuffer.o  \
671      setvbuf.o    \
672      system.o     \
673      tempnam.o    \
674      tmpfile.o    \
675      tmpnam_r.o   \
676      ungetc.o     \
677      vscanf.o     \
678      vwscanf.o    \
679      wscanf.o     \
\
681 PORTI18N=      \
682      getwchar.o   \
683      putwchar.o   \
684      putws.o      \
685      strtows.o    \
686      wcsnlen.o    \
687      wcsstr.o     \
688      wcstolmax.o  \
689      wcstol.o     \
690      wcstoul.o    \
691      wswcs.o      \
692      wmemchr.o    \
693      wmemcmp.o    \
694      wmemcpy.o    \
695      wmemmove.o   \
696      wmemset.o    \
697      wscat.o      \
698      wschr.o      \
699      wscmp.o      \
700      wscpy.o      \
701      wscspn.o    \
702      wsdup.o      \
703      wslen.o      \
704      wscat.o      \
705      wscmp.o      \
706      wscpy.o      \
707      wspbkr.o     \
708      wsprintf.o   \
709      wsrchr.o     \
710      wsscanf.o    \
711      wssp.o       \
712      wstod.o      \
713      wstok.o      \
714      wstol.o      \
715      wstoll.o     \
716      wsxfrm.o     \
717      gettext.o    \
718      gettext_gnu.o \
719      gettext_real.o \
720      gettext_util.o \
721      plural_parser.o \

```

```

722      wdresolve.o   \
723      _ctype.o     \
724      isascii.o    \
725      toascii.o    \
\
727 PORTI18N_COND=  \
728      wcstol_longlong.o \
729      wcstoul_longlong.o \
\
731 PORTLOCALE=     \
732      big5.o       \
733      btowc.o      \
734      collate.o    \
735      collcmp.o    \
736      euc.o        \
737      fnmatch.o   \
738      fgetwc.o    \
739      fgetws.o    \
740      fix_grouping.o \
741      fputwc.o    \
742      fputws.o    \
743      fwide.o     \
744      gb18030.o   \
745      gb2312.o    \
746      gbk.o        \
747      getdate.o   \
748      isdigit.o   \
749      iswctype.o  \
750      ldpair.o    \
751      lmessages.o \
752      lnumeric.o  \
753      lmonetary.o \
754      localeconv.o \
755      localeimpl.o \
756      mbftowc.o   \
757      mblen.o     \
758      mbrlen.o    \
759      mbrtowc.o   \
760      mbsinit.o   \
761      mbsnrtowcs.o \
762      mbsrtowcs.o \
763      mbstowcs.o  \
764      mbtowc.o    \
765      mskanji.o   \
766      nextwctype.o \
767      nl_langinfo.o \
768      none.o      \
769      rune.o      \
770      runetype.o  \
771      setlocale.o \
772      setrunelocale.o \
773      strcasecmp.o \
774      strcasestr.o \
775      strcoll.o   \
776      strfmon.o   \
777      strptime.o  \
778      strncasecmp.o \
779      strptime.o  \
780      strxfrm.o   \
781      table.o     \
782      timelocal.o \
783      tolower.o   \
784      towlower.o  \
785      ungetwc.o   \
786      utf8.o      \
787      wcrtoomb.o \

```

```

788      wscasecmp.o      \
789      wscoll.o        \
790      wcsftime.o      \
791      wcsnrtombs.o   \
792      wsrtoombs.o    \
793      wcswidth.o     \
794      wcstombs.o     \
795      wcsxfrm.o      \
796      wctob.o        \
797      wctomb.o       \
798      wctrans.o      \
799      wctype.o       \
800      wcwidth.o     \
801      wscoll.o

803 AIOBJS=      \
804      aio.o     \
805      aio_alloc.o \
806      posix_aio.o

808 RTOBJS=      \
809      clock_timer.o \
810      mqueue.o     \
811      pos4obj.o   \
812      sched.o     \
813      sem.o       \
814      shm.o       \
815      sigev_thread.o

817 SECFLAGSOBJS= \
818      secflags.o

820 TPOOLBJS=     \
821      thread_pool.o

823 THREADSOBJS= \
824      alloc.o   \
825      assfail.o \
826      cll_thr.o \
827      cancel.o  \
828      door_calls.o \
829      tmem.o    \
830      pthr_attr.o \
831      pthr_barrier.o \
832      pthr_cond.o \
833      pthr_mutex.o \
834      pthr_rwlock.o \
835      pthread.o  \
836      rwlock.o  \
837      scalls.o  \
838      sema.o    \
839      sigaction.o \
840      spawn.o   \
841      synch.o   \
842      tdb_agent.o \
843      thr.o     \
844      thread_interface.o \
845      tls.o    \
846      tsd.o

848 THREADSMACHOBJS= \
849      machdep.o

851 THREADSASMOBJS= \
852      asm_subr.o

```

```

854 UNICODEOBJS= \
855      u8_textprep.o \
856      uconv.o

858 UNWINDMACHOBJS= \
859      call_frame_inst.o \
860      eh_frame.o \
861      thrp_unwind.o \
862      unwind.o

864 pics/unwind.o:= COPTFLAG64 =

866 UNWINDASMOBJS= \
867      unwind_frame.o

869 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
870 # This macro should ALWAYS be empty; native APIs are already 'large file'.
871 PORTSYS64=

873 PORTSYS= \
874      _autofssys.o \
875      access.o \
876      acctctl.o \
877      bsd_signal.o \
878      chmod.o \
879      chown.o \
880      corectl.o \
881      epoll.o \
882      exaccts.o \
883      execl.o \
884      execl.o \
885      execv.o \
886      eventfd.o \
887      fcntl.o \
888      getpagesizes.o \
889      getpeerucred.o \
890      inst_sync.o \
891      issetugid.o \
892      label.o \
893      link.o \
894      lockf.o \
895      lwp.o \
896      lwp_cond.o \
897      lwp_rwlock.o \
898      lwp_sigmask.o \
899      meminfosys.o \
900      mkdir.o \
901      mknod.o \
902      msgsys.o \
903      nfssys.o \
904      open.o \
905      pgrp.o \
906      posix_sigwait.o \
907      ppriv.o \
908      psetsys.o \
909      rctlsys.o \
910      readlink.o \
911      rename.o \
912      sbrk.o \
913      semsys.o \
914      set_errno.o \
915      sharefs.o \
916      shmsys.o \
917      sidsys.o \
918      siginterrupt.o \
919      signal.o

```

```

920     signalfd.o  \
921     sigpending.o \
922     sigstack.o  \
923     stat.o      \
924     symlink.o   \
925     tasksys.o  \
926     time.o      \
927     time_util.o \
928     timerfd.o   \
929     ucontext.o  \
930     unlink.o    \
931     ustat.o     \
932     utimesys.o  \
933     zone.o      \

935 PORTREGEX=    \
936     glob.o      \
937     regcmp.o    \
938     regcomp.o   \
939     regerror.o  \
940     regex.o     \
941     regexec.o  \
942     regfree.o   \
943     wordexp.o   \

945 VALUES=      \
946     values-Xa.o \

948 MOSTOBSJS=    \
949     $(STRETS)   \
950     $(CRTOBSJS) \
951     $(DYNOBJS)  \
952     $(FPOBSJS)  \
953     $(I386FPOBSJS) \
954     $(FPASMOBSJS) \
955     $(ATOMICOBJS) \
956     $(CHACHAOBSJS) \
957     $(XATTROBSJS) \
958     $(COMOBSJS) \
959     $(GENOBSJS) \
960     $(PORTFP)   \
961     $(PORTGEN)  \
962     $(PORTGEN64) \
963     $(PORTI18N) \
964     $(PORTI18N_COND) \
965     $(PORTLOCALE) \
966     $(PORTPRINT) \
967     $(PORTPRINT_W) \
968     $(PORTREGEX) \
969     $(PORTSTDIO) \
970     $(PORTSTDIO64) \
971     $(PORTSTDIO_W) \
972     $(PORTSYS)  \
973     $(PORTSYS64) \
974     $(AIOOBSJS) \
975     $(RTOBSJS)  \
976     $(SECFLAGSOBSJS) \
977     $(TPOOLBSJS) \
978     $(THREADSOBSJS) \
979     $(THREADSMACHOBSJS) \
980     $(THREADSASMOBSJS) \
981     $(UNICODEOBSJS) \
982     $(UNWINDMACHOBSJS) \
983     $(UNWINDASMOBSJS) \
984     $(COMSYSOBSJS) \
985     $(SYSOBSJS) \

```

```

986     $(COMSYSOBSJS64) \
987     $(SYSOBSJS64) \
988     $(VALUES) \

990 TRACEOBSJS=   \
991     plockstat.o \

993 # NOTE: libc.so.1 must be linked with the minimal crt1.o and crtn.o
994 # modules whose source is provided in the $(SRC)/lib/crt directory.
994 # modules whose source is provided in the $(SRC)/lib/common directory.
995 # This must be done because otherwise the Sun C compiler would insert
996 # its own versions of these modules and those versions contain code
997 # to call out to C++ initialization functions. Such C++ initialization
998 # functions can call back into libc before thread initialization is
999 # complete and this leads to segmentation violations and other problems.
1000 # Since libc contains no C++ code, linking with the minimal crt1.o and
1001 # crtn.o modules is safe and avoids the problems described above.
1002 OBJECTS= $(CRTI) $(MOSTOBSJS) $(CRTN)
1003 CRTSRCS= ../../crt/amd64
1003 CRTSRCS= ../../common/amd64

1005 # include common library definitions
1006 include ../../Makefile.lib
1007 include ../../Makefile.lib.64

1009 CFLAGS64 += $(CTF_FLAGS)

1011 # This is necessary to avoid problems with calling _ex_unwind().
1012 # We probably don't want any inlining anyway.
1013 CFLAGS64 += -xinline=

1015 CERRWARN += _gcc=-Wno-parentheses
1016 CERRWARN += _gcc=-Wno-switch
1017 CERRWARN += _gcc=-Wno-uninitialized
1018 CERRWARN += _gcc=-Wno-unused-value
1019 CERRWARN += _gcc=-Wno-unused-label
1020 CERRWARN += _gcc=-Wno-unused-variable
1021 CERRWARN += _gcc=-Wno-type-limits
1022 CERRWARN += _gcc=-Wno-char-subscripts
1023 CERRWARN += _gcc=-Wno-clobbered
1024 CERRWARN += _gcc=-Wno-unused-function
1025 CERRWARN += _gcc=-Wno-address

1027 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1028 # enables ASSERT() checking in the threads portion of the library.
1029 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1030 THREAD_DEBUG =
1031 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1033 # Make string literals read-only to save memory
1034 CFLAGS64 += $(XSTRCONST)

1036 ALTPICS= $(TRACEOBSJS:%=pics/%)

1038 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)

1040 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1042 CPPFLAGS= -D_REENTRANT -D$(MACH64) -D__$(MACH64) $(THREAD_DEBUG) \
1043 -I. -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1044 ASFLAGS= $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(CPPFLAGS) \
1045 $(amd64_AS_XARCH)

1047 # As a favor to the dtrace syscall provider, libc still calls the
1048 # old syscall traps that have been obsoleted by the *at() interfaces.
1049 # Delete this to compile libc using only the new *at() system call traps

```

```

1050 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1052 # proc64_id.o is built with defines in $(SRC)/uts/intel/sys/x86_archext.h
1053 pics/proc64_id.o := CFLAGS64 += -I$(SRC)/uts/intel

1055 # Inform the run-time linker about libc specialized initialization
1056 RTLDINFO = -z rtldinfo=tls_rtldinfo
1057 DYNFLAGS += $(RTLDINFO)

1059 # Force libc's internal references to be resolved immediately upon loading
1060 # in order to avoid critical region problems. Since almost all libc symbols
1061 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1062 DYNFLAGS += -znov

1064 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1066 # Override this top level flag so the compiler builds in its native
1067 # C99 mode. This has been enabled to support the complex arithmetic
1068 # added to libc.
1069 C99MODE= $(C99_ENABLE)

1071 # libc method of building an archive
1072 # The "$(GREP) -v ' L '" part is necessary only until
1073 # lorder is fixed to ignore thread-local variables.
1074 BUILD.AR= $(RM) $@ ; \
1075 $(AR) q $@ '$(LORDER) $(MOSTOBSJS:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR)

1077 # extra files for the clean target
1078 CLEANFILES += \
1079 $(LIBCDIR)/port/gen/errlst.c \
1080 $(LIBCDIR)/port/gen/new_list.c \
1081 assym.h \
1082 genassym \
1083 crt_rtld.s \
1084 pics/crti.o \
1085 pics/crtn.o \
1086 $(ALTPICS)

1088 CLOBBERFILES += $(LIB_PIC)

1090 # list of C source for lint
1091 SRCS= \
1092 $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1093 $(XATTROBJS:%.o=$(SRC)/common/xattr/%.c) \
1094 $(COMOBJS:%.o=$(SRC)/common/util/%.c) \
1095 $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1096 $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1097 $(PORTI18N:%.o=$(LIBCDIR)/port/i18n/%.c) \
1098 $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \
1099 $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1100 $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1101 $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1102 $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1103 $(AIOOBJS:%.o=$(LIBCDIR)/port/aio/%.c) \
1104 $(RTOBJS:%.o=$(LIBCDIR)/port/rt/%.c) \
1105 $(SECFLAGSOBJS:%.o=$(SRC)/common/secflags/%.c) \
1106 $(TPOOLBJS:%.o=$(LIBCDIR)/port/tpool/%.c) \
1107 $(THREADSOBJS:%.o=$(LIBCDIR)/port/threads/%.c) \
1108 $(THREADSMACHOBJS:%.o=threads/%.c) \
1109 $(UNICODEOBJS:%.o=$(SRC)/common/unicode/%.c) \
1110 $(UNWINDMACHOBJS:%.o=unwind/%.c) \
1111 $(FPOBJS:%.o=fp/%.c) \
1112 $(I386FPOBJS:%.o=$(LIBCDIR)/i386/fp/%.c) \
1113 $(LIBCBASE)/gen/ecvt.c \
1114 $(LIBCBASE)/gen/makectxt.c \
1115 $(LIBCBASE)/gen/signfolst.c

```

```

1116 $(LIBCBASE)/gen/siglongjmp.c \
1117 $(LIBCBASE)/gen/sync_instruction_memory.c \
1118 $(LIBCBASE)/sys/uadmin.c

1120 # conditional assignments
1121 # $(DYNLIB) $(LIB_PIC) := DYNOBJS = _rtbootld.o
1122 $(DYNLIB) := CRTI = crti.o
1123 $(DYNLIB) := CRTN = crtn.o

1125 # Files which need the threads .il inline template
1126 TIL= \
1127 aio.o \
1128 alloc.o \
1129 assfail.o \
1130 atexit.o \
1131 atfork.o \
1132 cancel.o \
1133 door_calls.o \
1134 err.o \
1135 errno.o \
1136 lwp.o \
1137 ma.o \
1138 machdep.o \
1139 posix_aio.o \
1140 pthr_attr.o \
1141 pthr_barrier.o \
1142 pthr_cond.o \
1143 pthr_mutex.o \
1144 pthr_rwlock.o \
1145 pthread.o \
1146 rand.o \
1147 rwlock.o \
1148 scalls.o \
1149 sched.o \
1150 sema.o \
1151 sigaction.o \
1152 sigev_thread.o \
1153 spawn.o \
1154 stack.o \
1155 synch.o \
1156 tdb_agent.o \
1157 thr.o \
1158 thread_interface.o \
1159 thread_pool.o \
1160 thrp_unwind.o \
1161 tls.o \
1162 tmem.o \
1163 tsd.o

1165 $(TIL:%=pics/) := CFLAGS64 += $(LIBCBASE)/threads/amd64.il

1167 # pics/mul64.o := CFLAGS64 += crt/mul64.il

1169 # large-file-aware components that should be built large

1171 #$(COMSYSOBSJS64:%=pics/) := \
1172 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1174 #$(SYSOBSJS64:%=pics/) := \
1175 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1177 #$(PORTGEN64:%=pics/) := \
1178 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1180 #$(PORTSTDIO64:%=pics/) := \
1181 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

```

```

1183 #$(PORTSYS64:%=pics/) := \
1184 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1186 $(PORTSTDIO_W:%=pics/) := \
1187     CPPFLAGS += -D_WIDE

1189 $(PORTPRINT_W:%=pics/) := \
1190     CPPFLAGS += -D_WIDE

1192 $(PORTPRINT_C89:%=pics/) := \
1193     CPPFLAGS += -D_C89_INTMAX32

1195 $(PORTSTDIO_C89:%=pics/) := \
1196     CPPFLAGS += -D_C89_INTMAX32

1198 $(PORTI18N_COND:%=pics/) := \
1199     CPPFLAGS += -D_WCS_LOGLONG

1201 pics/arc4random.o :=     CPPFLAGS += -I$(SRC)/common/crypto/chacha

1203 pics/__clock_gettime.o := CPPFLAGS += $(COMPAGE_CPPFLAGS)

1205 .KEEP_STATE:

1207 all: $(LIBS) $(LIB_PIC)

1209 lint :=     CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1210 lint :=     CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1211 lint :=     LINTFLAGS64 += -mn -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED

1213 lint:
1214     @echo $(LINT.c) ... $(LDLIBS)
1215     @$$(LINT.c) $(SRCS) $(LDLIBS)

1217 $(LINTLIB) := SRCS=$(LIBCDIR)/port/lib-lc
1218 $(LINTLIB) := CPPFLAGS += -D_MSE_INT_H
1219 $(LINTLIB) := LINTFLAGS64=-nvx -m64

1221 # object files that depend on inline template
1222 $(TIL:%=pics/): $(LIBCBASE)/threads/amd64.il
1223 # pics/mul64.o: crt/mul64.il

1225 # include common libc targets
1226 include ../Makefile.targ

1228 # We need to strip out all CTF data from the static library
1229 $(LIB_PIC) := DIR = pics
1230 $(LIB_PIC): pics $$ (PICS)
1231     $(BUILD.AR)
1232     $(MCS) -d -n .SUNW_ctf $@ > /dev/null 2>&l
1233     $(AR) -ts $@ > /dev/null
1234     $(POST_PROCESS_A)

1236 ASSYMDEP_OBJS= \
1237     _lwp_mutex_unlock.o \
1238     _stack_grow.o \
1239     asm_subr.o \
1240     getcontext.o \
1241     setjmp.o \
1242     tls_get_addr.o \
1243     vforkx.o

1245 $(ASSYMDEP_OBJS:%=pics/): assym.h

1247 # assym.h build rules

```

```

1249 GENASSYM_C = genassym.c

1251 genassym: $(GENASSYM_C)
1252     $(NATIVECC) $(NATIVE_CFLAGS) -Iinc -I$(LIBCDIR)/inc $(CPPFLAGS.native) \
1253     -o $@ $(GENASSYM_C)

1255 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in

1257 assym.h: $(OFFSETS) genassym
1258     $(OFFSETS_CREATE) <$(OFFSETS) >$@
1259     ./genassym >>$@

1261 # derived C source and related explicit dependencies
1262 $(LIBCDIR)/port/gen/errlst.c + \
1263 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1264     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist

1266 pics/errlst.o: $(LIBCDIR)/port/gen/errlst.c

1268 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c

```

```

*****
24891 Mon Sep  4 19:56:14 2017
new/usr/src/lib/libc/i386/Makefile.com
8609 want a position independent CRT
*****
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) 2004, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2016 Joyent, Inc.
25 # Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved.
26 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
27 # Copyright 2017 Nexenta Systems, Inc.
28 #
29 #
30 LIBCDIR=      $(SRC)/lib/libc
31 LIB_PIC=      libc_pic.a
32 VERS=        .1
33 CPP=         /usr/lib/cpp
34 TARGET_ARCH= i386
35 #
36 # include comm page definitions
37 include $(SRC)/lib/commpage/Makefile.shared.com
38 include $(SRC)/lib/commpage/Makefile.shared.targ
39 #
40 VALUES=     values-Xa.o
41 #
42 # objects are grouped by source directory
43 #
44 # local objects
45 STRETS=
46 #
47 CRTOBSJ=    \
48     cerror.o \
49     cerror64.o
50 #
51 DYNOBJS=    \
52     _rtbootld.o
53 #
54 FPOBJS=     \
55     _D_cplx_div.o \
56     _D_cplx_div_ix.o \
57     _D_cplx_div_rx.o \
58     _D_cplx_lr_div.o \
59     _D_cplx_lr_div_ix.o \
60     _D_cplx_lr_div_rx.o \
61     _D_cplx_mul.o \

```

```

62     _F_cplx_div.o \
63     _F_cplx_div_ix.o \
64     _F_cplx_div_rx.o \
65     _F_cplx_lr_div.o \
66     _F_cplx_lr_div_ix.o \
67     _F_cplx_lr_div_rx.o \
68     _F_cplx_mul.o \
69     _X_cplx_div.o \
70     _X_cplx_div_ix.o \
71     _X_cplx_div_rx.o \
72     _X_cplx_lr_div.o \
73     _X_cplx_lr_div_ix.o \
74     _X_cplx_lr_div_rx.o \
75     _X_cplx_mul.o \
76     fpgetmask.o \
77     fpgetround.o \
78     fpgetsticky.o \
79     fpsetmask.o \
80     fpsetround.o \
81     fpsetsticky.o \
82     fpstart.o \
83     ieee.o
84 #
85 FPASMOBJS= \
86     __xgetRD.o \
87     _base_il.o \
88     _xtoll.o \
89     _xtoull.o \
90     fpcw.o
91 #
92 ATOMICOBJS= \
93     atomic.o
94 #
95 CHACHAOBJS= \
96     chacha.o
97 #
98 KATTOBJS=   \
99     xattr_common.o
100 #
101 COMOBJS=    \
102     bcmp.o \
103     bcopy.o \
104     bsearch.o \
105     bzero.o \
106     qsort.o \
107     strtol.o \
108     strtoul.o \
109     strtoll.o \
110     strtoull.o
111 #
112 DTRACEOBJS= \
113     dtrace_data.o
114 #
115 SECFLAGSOBJS= \
116     secflags.o
117 #
118 GENOBJS=    \
119     $(COMMPAGE_OBJS) \
120     _div64.o \
121     _divdi3.o \
122     _getsp.o \
123     _mul64.o \
124     abs.o \
125     alloca.o \
126     arc4random.o \
127     arc4random_uniform.o \

```

```

128     byteorder.o           \|
129     byteorder64.o        \|
130     cuexit.o             \|
131     ecvt.o               \|
132     endian.o            \|
133     errlst.o            \|
134     i386_data.o         \|
135     ladd.o              \|
136     ldivide.o          \|
137     lmul.o             \|
138     lock.o             \|
139     lshiftl.o          \|
140     lsign.o            \|
141     lsub.o             \|
142     makecxt.o          \|
143     memccpy.o          \|
144     memchr.o           \|
145     memcmp.o           \|
146     memcpy.o           \|
147     memset.o           \|
148     new_list.o         \|
149     setjmp.o           \|
150     siginfolst.o       \|
151     siglongjmp.o       \|
152     strcat.o           \|
153     strchr.o           \|
154     strcmp.o           \|
155     strcpy.o           \|
156     strlen.o           \|
157     strncat.o          \|
158     strncmp.o          \|
159     strncpy.o          \|
160     strnlen.o          \|
161     strrchr.o          \|
162     sync_instruction_memory.o \|

164 # sysobjs that contain large-file interfaces
165 COMSYSOBS64=
166     fstatvfs64.o       \|
167     getdents64.o      \|
168     getrlimit64.o     \|
169     lseek64.o         \|
170     mmap64.o          \|
171     pread64.o         \|
172     preadv64.o        \|
173     pwrite64.o        \|
174     pwritev64.o       \|
175     setrlimit64.o     \|
176     statvfs64.o       \|

178 SYSOBS64=

180 COMSYSOBS=
181     __clock_timer.o   \|
182     __getloadavg.o    \|
183     __rusagesys.o     \|
184     __signotify.o     \|
185     __sigrt.o         \|
186     __time.o          \|
187     _lgrp_home_fast.o \|
188     _lgrpsys.o        \|
189     _nfssys.o         \|
190     _portfs.o         \|
191     _pset.o           \|
192     _rpcsys.o         \|
193     _sigaction.o      \|

```

```

194     _so_accept.o      \|
195     _so_bind.o        \|
196     _so_connect.o     \|
197     _so_getpeername.o \|
198     _so_getsockname.o \|
199     _so_getsockopt.o  \|
200     _so_listen.o      \|
201     _so_recv.o        \|
202     _so_recvfrom.o    \|
203     _so_recvmsg.o     \|
204     _so_send.o        \|
205     _so_sendmsg.o     \|
206     _so_sendto.o      \|
207     _so_setsockopt.o  \|
208     _so_shutdown.o    \|
209     _so_socket.o      \|
210     _so_socketpair.o  \|
211     _sockconfig.o     \|
212     acct.o            \|
213     acl.o             \|
214     adjtime.o         \|
215     alarm.o           \|
216     brk.o             \|
217     chdir.o           \|
218     chroot.o          \|
219     cladm.o           \|
220     close.o           \|
221     execve.o          \|
222     exit.o            \|
223     facl.o            \|
224     fchdir.o          \|
225     fchroot.o         \|
226     fdsync.o          \|
227     fpathconf.o       \|
228     fstatfs.o         \|
229     fstatvfs.o        \|
230     getcpuid.o        \|
231     getdents.o        \|
232     getegid.o         \|
233     geteuid.o         \|
234     getgid.o          \|
235     getgroups.o       \|
236     gethrtime.o       \|
237     getitimer.o       \|
238     getmsg.o           \|
239     getpid.o          \|
240     getpmsg.o         \|
241     getppid.o         \|
242     getrandom.o       \|
243     getrlimit.o       \|
244     getuid.o          \|
245     gtty.o            \|
246     install_utrap.o   \|
247     ioctl.o           \|
248     kaio.o            \|
249     kill.o            \|
250     llseek.o          \|
251     lseek.o           \|
252     mmapobjsys.o      \|
253     memcntl.o         \|
254     mincore.o         \|
255     mmap.o            \|
256     modctl.o          \|
257     mount.o           \|
258     mprotect.o        \|
259     munmap.o          \|

```

```

260 nice.o \
261 ntp_adjtime.o \
262 ntp_gettime.o \
263 p_online.o \
264 pathconf.o \
265 pause.o \
266 pcsample.o \
267 pipe2.o \
268 pollsys.o \
269 pread.o \
270 preadv.o \
271 priocntlset.o \
272 processor_bind.o \
273 processor_info.o \
274 profil.o \
275 psecflagsset.o \
276 putmsg.o \
277 putpmsg.o \
278 pwrite.o \
279 pwritev.o \
280 read.o \
281 readv.o \
282 resolvepath.o \
283 seteguid.o \
284 setgid.o \
285 setgroups.o \
286 setitimer.o \
287 setreid.o \
288 setrlimit.o \
289 setuid.o \
290 sigaltstk.o \
291 sigprocmsk.o \
292 sigsendset.o \
293 sigsuspend.o \
294 statfs.o \
295 statvfs.o \
296 stty.o \
297 sync.o \
298 sysconfig.o \
299 sysfs.o \
300 sysinfo.o \
301 syslp.o \
302 times.o \
303 ulimit.o \
304 umask.o \
305 umount2.o \
306 utssys.o \
307 uucopy.o \
308 vhangup.o \
309 waitid.o \
310 write.o \
311 writev.o \
312 yield.o \

314 SYSOBJS= \
315 __clock_gettime.o \
316 __clock_gettime_sys.o \
317 __getcontext.o \
318 __uadmin.o \
319 _lwp_mutex_unlock.o \
320 _stack_grow.o \
321 door.o \
322 forkx.o \
323 forkallx.o \
324 getcontext.o \
325 gettimeofday.o \

```

```

326 lwp_private.o \
327 nuname.o \
328 ptrace.o \
329 syscall.o \
330 sysi86.o \
331 tls_get_addr.o \
332 uadmin.o \
333 umount.o \
334 uname.o \
335 vforkx.o \
336 xstat.o \

338 # objects under $(LIBCDIR)/port which contain transitional large file interfaces
339 PORTGEN64= \
340 __xftw64.o \
341 attropen64.o \
342 ftw64.o \
343 mkstemp64.o \
344 nftw64.o \
345 tell64.o \
346 truncate64.o \

348 # objects from source under $(LIBCDIR)/port
349 PORTFP= \
350 __flt_decim.o \
351 __flt_rounds.o \
352 __tbl_10_b.o \
353 __tbl_10_h.o \
354 __tbl_10_s.o \
355 __tbl_2_b.o \
356 __tbl_2_h.o \
357 __tbl_2_s.o \
358 __tbl_fdq.o \
359 __tbl_tens.o \
360 __x_power.o \
361 _base_sup.o \
362 aconvert.o \
363 decimal_bin.o \
364 double_decim.o \
365 econvert.o \
366 fconvert.o \
367 file_decim.o \
368 finite.o \
369 fp_data.o \
370 func_decim.o \
371 gconvert.o \
372 hex_bin.o \
373 ieee_globals.o \
374 pack_float.o \
375 sigfpe.o \
376 string_decim.o \

378 PORTGEN= \
379 _env_data.o \
380 __xftw.o \
381 a64l.o \
382 abort.o \
383 addsev.o \
384 ascii_strcasecmp.o \
385 ascii_strncasecmp.o \
386 assert.o \
387 atexit.o \
388 atfork.o \
389 atof.o \
390 atoi.o \
391 atol.o \

```



```

392      atoll.o          \
393      attrat.o         \
394      attropen.o       \
395      basename.o      \
396      calloc.o        \
397      catgets.o       \
398      catopen.o       \
399      cfgetispeed.o   \
400      cfgetospeed.o   \
401      cfree.o         \
402      cfsetispeed.o   \
403      cfsetospeed.o   \
404      cftime.o        \
405      clock.o         \
406      closedir.o     \
407      closefrom.o    \
408      confstr.o       \
409      crypt.o         \
410      csetlen.o       \
411      ctime.o         \
412      ctime_r.o      \
413      daemon.o       \
414      deflt.o        \
415      directio.o     \
416      dirname.o      \
417      div.o          \
418      drand48.o      \
419      dup.o          \
420      env_data.o     \
421      err.o          \
422      errno.o        \
423      euclen.o       \
424      event_port.o   \
425      execvp.o       \
426      explicit_bzero.o \
427      fattach.o      \
428      fdetach.o      \
429      fdopendir.o    \
430      ffs.o          \
431      flock.o        \
432      fls.o          \
433      fmtmsg.o       \
434      freezer.o      \
435      ftime.o        \
436      ftok.o         \
437      fts.o          \
438      ftw.o          \
439      gcvt.o         \
440      get_nprocs.o   \
441      getauxv.o      \
442      getcwd.o       \
443      getdate_err.o  \
444      getdtblsize.o  \
445      getentropy.o   \
446      getenv.o       \
447      getexecname.o  \
448      getgrnam.o     \
449      getgrnam_r.o   \
450      gethostid.o    \
451      gethostname.o  \
452      gethz.o        \
453      getisax.o      \
454      getloadavg.o   \
455      getlogin.o     \
456      getmntent.o    \
457      getnetgrent.o  \

```

```

458      getopt.o       \
459      getopt_long.o  \
460      getpagesize.o  \
461      getpw.o        \
462      getpwnam.o     \
463      getpwnam_r.o   \
464      getrusage.o    \
465      getspent.o     \
466      getspent_r.o   \
467      getsubopt.o    \
468      gettxt.o       \
469      getusershell.o \
470      getut.o        \
471      getutx.o       \
472      getvfsent.o    \
473      getwd.o        \
474      getwidth.o     \
475      getxby_door.o  \
476      gtxt.o         \
477      hsearch.o      \
478      iconv.o        \
479      imaxabs.o      \
480      imaxdiv.o      \
481      index.o        \
482      initgroups.o   \
483      insque.o       \
484      isaexec.o      \
485      isastream.o    \
486      isatty.o       \
487      killpg.o       \
488      klpdlib.o      \
489      l64a.o         \
490      lckpwwf.o      \
491      lconstants.o   \
492      lexp10.o       \
493      lfind.o        \
494      lfmt.o         \
495      lfmt_log.o     \
496      llabs.o        \
497      lldiv.o        \
498      llog10.o       \
499      lltostr.o      \
500      localtime.o    \
501      lsearch.o      \
502      madvise.o      \
503      malloc.o       \
504      memalign.o     \
505      memmem.o       \
506      mkdev.o        \
507      mkdtemp.o      \
508      mkfifo.o       \
509      mkstemp.o      \
510      mktemp.o       \
511      mlock.o        \
512      mlockall.o     \
513      mon.o          \
514      msync.o        \
515      munlock.o      \
516      munlockall.o   \
517      ndbm.o         \
518      nftw.o         \
519      nlspath_checks.o \
520      nsparse.o      \
521      nss_common.o   \
522      nss_dbdefs.o   \
523      nss_deffinder.o \

```

```

524      opendir.o          \
525      opt_data.o         \
526      perror.o          \
527      pfmt.o            \
528      pfmt_data.o       \
529      pfmt_print.o      \
530      pipe.o            \
531      plock.o           \
532      poll.o            \
533      posix_fadvise.o   \
534      posix_fallocate.o \
535      posix_madvise.o   \
536      posix_memalign.o  \
537      prioctl.o         \
538      priv_str_xlate.o  \
539      privlib.o         \
540      psecflags.o       \
541      psiginf.o         \
542      psignal.o         \
543      pt.o              \
544      putpwent.o        \
545      putsptent.o       \
546      raise.o           \
547      rand.o            \
548      random.o          \
549      rctlops.o         \
550      readdir.o         \
551      readdir_r.o       \
552      reallocarray.o    \
553      recallocarray.o   \
554      realpath.o        \
555      reboot.o          \
556      regexpr.o         \
557      remove.o          \
558      rewinddir.o       \
559      rindex.o          \
560      scandir.o         \
561      seekdir.o         \
562      select.o          \
563      setlabel.o        \
564      setpriority.o     \
565      settimeofday.o    \
566      sh_locks.o        \
567      sigflag.o         \
568      siglist.o         \
569      sigsend.o         \
570      sigsetops.o       \
571      ssignal.o         \
572      stack.o           \
573      stpcpy.o          \
574      stpncpy.o         \
575      str2sig.o         \
576      strcase_charmap.o \
577      strchrnul.o       \
578      strcspn.o         \
579      strdup.o          \
580      strerror.o        \
581      strlcat.o         \
582      strlcpy.o         \
583      strndup.o         \
584      strpbrk.o         \
585      strsep.o          \
586      strsignal.o       \
587      strspn.o          \
588      strstr.o          \
589      strtod.o          \

```

```

590      strtoumax.o       \
591      strtok.o          \
592      strtok_r.o        \
593      strtonum.o        \
594      strtoumax.o       \
595      swab.o            \
596      swapctl.o         \
597      sysconf.o         \
598      syslog.o          \
599      tcdrain.o         \
600      tcflow.o         \
601      tcflush.o         \
602      tcgetattr.o       \
603      tcgetpgrp.o       \
604      tcgetsid.o        \
605      tcsendbreak.o     \
606      tcsetattr.o       \
607      tcsetpgrp.o       \
608      tell.o            \
609      telldir.o         \
610      tfind.o           \
611      time_data.o       \
612      time_gdata.o     \
613      timespec_get.o    \
614      tls_data.o        \
615      truncate.o        \
616      tsdalloc.o       \
617      tsearch.o         \
618      ttyname.o         \
619      ttyslot.o         \
620      ualarm.o          \
621      ucred.o           \
622      valloc.o          \
623      vlfmt.o           \
624      vpfmt.o           \
625      waitpid.o         \
626      walkstack.o       \
627      wdata.o           \
628      xgetwidth.o       \
629      xpg4.o            \
630      xpg6.o            \
631      \
632      PORTPRINT_W=     \
633      doprnt_w.o       \
634      \
635      PORTPRINT=       \
636      asprintf.o        \
637      doprnt.o          \
638      fprintf.o         \
639      printf.o          \
640      snprintf.o        \
641      sprintf.o         \
642      vfprintf.o        \
643      vprintf.o         \
644      vsnprintf.o       \
645      vsprintf.o        \
646      vwprintf.o        \
647      wprintf.o        \
648      \
649      # c89 variants to support 32-bit size of c89 u/intmax_t (32-bit libc only)
650      PORTPRINT_C89=    \
651      vfprintf_c89.o    \
652      vprintf_c89.o     \
653      vsnprintf_c89.o   \
654      vsprintf_c89.o    \
655      vwprintf_c89.o    \

```

```

657 PORTSTDIO_C89=      \
658     vscanf_c89.o    \
659     vwscanf_c89.o   \

661 # portable stdio objects that contain large file interfaces.
662 # Note: fopen64 is a special case, as we build it small.
663 PORTSTDIO64=        \
664     fopen64.o        \
665     fpos64.o         \

667 PORTSTDIO_W=       \
668     doscan_w.o       \

670 PORTSTDIO=         \
671     __extensions.o   \
672     _endopen.o       \
673     _filbuf.o        \
674     _findbuf.o       \
675     _flsbuf.o        \
676     _wrtchk.o        \
677     clearerr.o       \
678     ctermid.o        \
679     ctermid_r.o      \
680     cuserid.o        \
681     data.o           \
682     doscan.o         \
683     fdopen.o         \
684     feof.o           \
685     ferrord.o        \
686     fgetc.o          \
687     fgets.o          \
688     fileno.o         \
689     flockf.o         \
690     flush.o          \
691     fopen.o          \
692     fpos.o           \
693     fputc.o          \
694     fputs.o          \
695     fread.o          \
696     fseek.o          \
697     fseeko.o         \
698     ftell.o          \
699     ftello.o         \
700     fwrite.o         \
701     getc.o           \
702     getchar.o        \
703     getline.o        \
704     getpass.o        \
705     gets.o           \
706     getw.o           \
707     mse.o            \
708     popen.o          \
709     putc.o           \
710     putchar.o        \
711     puts.o           \
712     putw.o           \
713     rewind.o         \
714     scanf.o          \
715     setbuf.o         \
716     setbuffer.o     \
717     setvbuf.o        \
718     system.o         \
719     tempnam.o        \
720     tmpfile.o        \
721     tmpnam_r.o       \

```

```

722     ungetc.o         \
723     vscanf.o         \
724     vwscanf.o        \
725     wscanf.o         \

727 PORTI18N=         \
728     getwchar.o       \
729     putwchar.o       \
730     putws.o          \
731     strtows.o        \
732     wcsnlen.o        \
733     wcsstr.o         \
734     wcstoimax.o      \
735     wcstol.o         \
736     wcstoul.o        \
737     wcs wcs.o        \
738     wmemchr.o        \
739     wmemcmp.o        \
740     wmemcpy.o        \
741     wmemmove.o       \
742     wmemset.o        \
743     wscat.o          \
744     wschr.o          \
745     wscmp.o          \
746     wscopy.o         \
747     wcs spn.o        \
748     wsdup.o          \
749     wslen.o          \
750     wsnecat.o        \
751     wsncmp.o         \
752     wsncpy.o         \
753     wspbrk.o         \
754     wsprintf.o       \
755     wsrchr.o         \
756     wsscanf.o        \
757     wsspn.o          \
758     wstod.o          \
759     wstok.o          \
760     wstol.o          \
761     wstoll.o         \
762     wsxfrm.o         \
763     gettext.o        \
764     gettext_gnu.o    \
765     gettext_real.o   \
766     gettext_util.o   \
767     plural_parser.o  \
768     wdresolve.o      \
769     _ctype.o         \
770     isascii.o        \
771     toascii.o        \

773 PORTI18N_COND=    \
774     wcstol_longlong.o \
775     wcstoul_longlong.o \

777 PORTLOCALE=       \
778     big5.o           \
779     btowc.o          \
780     collate.o        \
781     collcmp.o        \
782     euc.o            \
783     fnmatch.o        \
784     fgetwc.o         \
785     fgetws.o         \
786     fix_grouping.o   \
787     fputwc.o         \

```

```

788      fputws.o           \
789      fwide.o           \
790      gb18030.o         \
791      gb2312.o         \
792      gbk.o            \
793      getdate.o        \
794      isdigit.o        \
795      iswctype.o       \
796      ldpart.o         \
797      lmessages.o      \
798      lnumeric.o       \
799      lmonetary.o      \
800      localeconv.o     \
801      localeimpl.o     \
802      mbftowc.o        \
803      mblen.o          \
804      mbrlen.o         \
805      mbrtowc.o        \
806      mbsinit.o        \
807      mbsnrtowcs.o     \
808      mbsrtowcs.o     \
809      mbstowcs.o       \
810      mbtowc.o         \
811      mskanji.o        \
812      nextwctype.o     \
813      nl_langinfo.o    \
814      none.o           \
815      rune.o           \
816      runetype.o       \
817      setlocale.o      \
818      setrunelocale.o  \
819      strcasecmp.o     \
820      strcasestr.o     \
821      strcoll.o        \
822      strfmon.o        \
823      strftime.o       \
824      strncasecmp.o    \
825      strptime.o       \
826      strxfrm.o        \
827      table.o          \
828      timelocal.o      \
829      tolower.o        \
830      tolower.o        \
831      ungetwc.o        \
832      utf8.o           \
833      wctomb.o         \
834      wcscasecmp.o     \
835      wcscoll.o        \
836      wcsftime.o       \
837      wcsnrtombs.o     \
838      wcsrtombs.o      \
839      wcswidth.o       \
840      wcstombs.o       \
841      wcsxfrm.o        \
842      wctob.o          \
843      wctomb.o         \
844      wctrans.o        \
845      wctype.o         \
846      wcwidth.o       \
847      wscoll.o         \
849  AIOBJS=             \
850      aio.o            \
851      aio_alloc.o      \
852      posix_aio.o      \

```

```

854  RTOBJS=             \
855      clock_timer.o    \
856      mqueue.o         \
857      pos4obj.o        \
858      sched.o          \
859      sem.o            \
860      shm.o            \
861      sigev_thread.o   \
863  TPOOLBJS=          \
864      thread_pool.o   \
866  THREADSOBJS=       \
867      alloc.o          \
868      assfail.o        \
869      cancel.o         \
870      cll_thr.o        \
871      door_calls.o     \
872      tmem.o           \
873      pthr_attr.o      \
874      pthr_barrier.o   \
875      pthr_cond.o      \
876      pthr_mutex.o     \
877      pthr_rwlock.o    \
878      pthread.o        \
879      rwlock.o         \
880      scalls.o         \
881      sema.o           \
882      sigaction.o      \
883      spawn.o          \
884      synch.o          \
885      tdb_agent.o      \
886      thr.o            \
887      thread_interface.o \
888      tls.o            \
889      tsd.o            \
891  THREADSMACHOBJS=   \
892      machdep.o        \
894  THREADSASMOBJS=   \
895      asm_subr.o       \
897  UNICODEOBJS=      \
898      u8_textprep.o    \
899      uconv.o          \
901  UNWINDMACHOBJS=   \
902      unwind.o         \
904  UNWINDASMOBJS=   \
905      unwind_frame.o  \
907  # objects that implement the transitional large file API
908  PORTSYS64=         \
909      lockf64.o        \
910      stat64.o         \
912  PORTSYS=           \
913      _autofssys.o     \
914      access.o         \
915      acctctl.o        \
916      bsd_signal.o     \
917      chmod.o          \
918      chown.o          \
919      corectl.o        \

```

```

920      epoll.o           \
921      eventfd.o        \
922      exacctsys.o     \
923      execl.o         \
924      execl.e.o       \
925      execv.o         \
926      fcntl.o         \
927      getpagesizes.o  \
928      getpeerucred.o  \
929      inst_sync.o     \
930      issetugid.o     \
931      label.o         \
932      link.o          \
933      lockf.o         \
934      lwp.o           \
935      lwp_cond.o      \
936      lwp_rwlock.o    \
937      lwp_sigmask.o   \
938      meminfosys.o    \
939      mkdir.o         \
940      mknod.o         \
941      msgsys.o        \
942      nfssys.o        \
943      open.o          \
944      pgrp.sys.o      \
945      posix_sigwait.o \
946      ppriv.o         \
947      psetsys.o       \
948      rctlsys.o       \
949      readlink.o      \
950      rename.o        \
951      sbrk.o          \
952      semsys.o        \
953      set_errno.o     \
954      sharefs.o       \
955      shmsys.o        \
956      sidsys.o        \
957      siginterrupt.o  \
958      signal.o        \
959      signalfd.o      \
960      sigpending.o    \
961      sigstack.o      \
962      stat.o          \
963      symlink.o       \
964      tasksys.o       \
965      time.o          \
966      time_util.o     \
967      timerfd.o       \
968      ucontext.o      \
969      unlink.o        \
970      ustat.o         \
971      utimesys.o     \
972      zone.o         \
\
974 PORTREGEX=        \
975      glob.o         \
976      regcmp.o       \
977      regcomp.o      \
978      regerror.o     \
979      regex.o        \
980      regexec.o      \
981      regfree.o      \
982      wordexp.o      \
\
984 PORTREGEX64=      \
985      glob64.o

```

```

987 MOSTOBSJ=        \
988      $(STRETS)      \
989      $(CRTOBSJ)     \
990      $(DYNOBJS)     \
991      $(FPOBSJ)      \
992      $(FPASMOBSJ)   \
993      $(ATOMICOBJS)  \
994      $(CHACHAOBSJ)  \
995      $(XATTROBSJ)   \
996      $(COMOBSJ)     \
997      $(DTRACEOBSJ)  \
998      $(GENOBSJ)     \
999      $(PORTFP)      \
1000     $(PORTGEN)      \
1001     $(PORTGEN64)    \
1002     $(PORTI18N)     \
1003     $(PORTI18N_COND) \
1004     $(PORTLOCALE)   \
1005     $(PORTPRINT)    \
1006     $(PORTPRINT_C89) \
1007     $(PORTPRINT_W)  \
1008     $(PORTREGEX)    \
1009     $(PORTREGEX64)  \
1010     $(PORTSTDIO)    \
1011     $(PORTSTDIO64)  \
1012     $(PORTSTDIO_C89) \
1013     $(PORTSTDIO_W)  \
1014     $(PORTSYS)      \
1015     $(PORTSYS64)    \
1016     $(AIOOBSJ)      \
1017     $(RTOBSJ)       \
1018     $(SECFLAGSOBSJ) \
1019     $(TPOOLOBSJ)    \
1020     $(THREADSOBSJ)  \
1021     $(THREADSMACHOBSJ) \
1022     $(THREADSASMOBSJ) \
1023     $(UNICODEOBSJ)  \
1024     $(UNWINDMACHOBSJ) \
1025     $(UNWINDASMOBSJ) \
1026     $(COMSYSOBSJ)   \
1027     $(SYSOBSJ)      \
1028     $(COMSYSOBSJ64) \
1029     $(SYSOBSJ64)    \
1030     $(VALUES)
\
1032 TRACEOBSJ=      \
1033     plockstat.o
\
1035 # NOTE: libc.so.1 must be linked with the minimal crt.i.o and crtn.o
1036 # modules whose source is provided in the $(SRC)/lib/crt directory.
1037 # This must be done because otherwise the Sun C compiler would insert
1038 # its own versions of these modules and those versions contain code
1039 # to call out to C++ initialization functions. Such C++ initialization
1040 # functions can call back into libc before thread initialization is
1041 # complete and this leads to segmentation violations and other problems.
1042 # Since libc contains no C++ code, linking with the minimal crt.i.o and
1043 # crtn.o modules is safe and avoids the problems described above.
1044 OBJECTS= $(CRTI) $(MOSTOBSJ) $(CRTN)
1045 CRTSRCS= ../../crt/i386
1046 CRTSRCS= ../../common/i386
\
1047 LDPASS_OFF= $(POUND_SIGN)
\
1049 # include common library definitions

```

```

1050 include ../../Makefile.lib

1052 # we need to override the default SONAME here because we might
1053 # be building a variant object (still libc.so.1, but different filename)
1054 SONAME = libc.so.1

1056 CFLAGS += $(CCVERBOSE) $(CTF_FLAGS)

1058 # This is necessary to avoid problems with calling _ex_unwind().
1059 # We probably don't want any inlining anyway.
1060 XINLINE = -xinline=
1061 CFLAGS += $(XINLINE)

1063 CERRWARN += -_gcc=-Wno-parentheses
1064 CERRWARN += -_gcc=-Wno-switch
1065 CERRWARN += -_gcc=-Wno-uninitialized
1066 CERRWARN += -_gcc=-Wno-unused-value
1067 CERRWARN += -_gcc=-Wno-unused-label
1068 CERRWARN += -_gcc=-Wno-unused-variable
1069 CERRWARN += -_gcc=-Wno-type-limits
1070 CERRWARN += -_gcc=-Wno-char-subscripts
1071 CERRWARN += -_gcc=-Wno-clobbered
1072 CERRWARN += -_gcc=-Wno-unused-function
1073 CERRWARN += -_gcc=-Wno-address

1075 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1076 # enables ASSERT() checking in the threads portion of the library.
1077 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1078 THREAD_DEBUG =
1079 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1081 # Make string literals read-only to save memory.
1082 CFLAGS += $(XSTRCONST)

1084 ALTPICS= $(TRACEOBSJ:%=pics/%)

1086 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) \
1087             $(EXTPICS) $(LDLIBS)

1089 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1091 #
1092 # EXTN_CPPFLAGS and EXTN_CFLAGS set in enclosing Makefile
1093 #
1094 CFLAGS += $(EXTN_CFLAGS)
1095 CPPFLAGS= -D_REENTRANT -Di386 $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1096           -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1097 ASFLAGS= $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(CPPFLAGS) $(i386_AS_XARCH)

1099 # As a favor to the dtrace syscall provider, libc still calls the
1100 # old syscall traps that have been obsoleted by the *at() interfaces.
1101 # Delete this to compile libc using only the new *at() system call traps
1102 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1104 # Inform the run-time linker about libc specialized initialization
1105 RTLDINFO = -z rtldinfo=tls_rtldinfo
1106 DYNFLAGS += $(RTLDINFO)

1108 # Force libc's internal references to be resolved immediately upon loading
1109 # in order to avoid critical region problems. Since almost all libc symbols
1110 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1111 DYNFLAGS += -znow

1113 DYNFLAGS += -e __rtboot
1114 DYNFLAGS += $(EXTN_DYNFLAGS)

```

```

1116 # Inform the kernel about the initial DTrace area (in case
1117 # libc is being used as the interpreter / runtime linker).
1118 DTRACE_DATA = -zdtrace=dtrace_data
1119 DYNFLAGS += $(DTRACE_DATA)

1121 # DTrace needs an executable data segment.
1122 MAPFILE.NED=

1124 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1126 # Override this top level flag so the compiler builds in its native
1127 # C99 mode. This has been enabled to support the complex arithmetic
1128 # added to libc.
1129 C99MODE= $(C99_ENABLE)

1131 # libc method of building an archive
1132 # The "$(GREP) -v ' L ' " part is necessary only until
1133 # lorder is fixed to ignore thread-local variables.
1134 BUILD.AR= $(RM) $@ ; \
1135           $(AR) q $@ '$(LORDER) $(MOSTOBSJ:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1137 # extra files for the clean target
1138 CLEANFILES += \
1139             $(LIBCDIR)/port/gen/errlst.c \
1140             $(LIBCDIR)/port/gen/new_list.c \
1141             assym.h \
1142             genassym \
1143             crt/_rtld.s \
1144             crt/_rtbootld.s \
1145             pics/_rtbootld.o \
1146             pics/crti.o \
1147             pics/crtn.o \
1148             $(ALTPICS)

1150 CLOBBERVERFILES += $(LIB_PIC)

1152 # list of C source for lint
1153 SRCS= \
1154         $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1155         $(XATTROBJS:%.o=$(SRC)/common/xattr/%.c) \
1156         $(COMOBSJ:%.o=$(SRC)/common/util/%.c) \
1157         $(DTRACEOBSJ:%.o=$(SRC)/common/dtrace/%.c) \
1158         $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1159         $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1160         $(PORTI18N:%.o=$(LIBCDIR)/port/il18n/%.c) \
1161         $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \
1162         $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1163         $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1164         $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1165         $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1166         $(AIOOBJS:%.o=$(LIBCDIR)/port/aio/%.c) \
1167         $(RTOBJS:%.o=$(LIBCDIR)/port/rt/%.c) \
1168         $(SECFLAGSOBJS:%.o=$(SRC)/common/secflags/%.c) \
1169         $(TPOOLOBSJ:%.o=$(LIBCDIR)/port/tpool/%.c) \
1170         $(THREADSOBSJ:%.o=$(LIBCDIR)/port/threads/%.c) \
1171         $(THREADSMACHOBSJ:%.o=$(LIBCDIR)/$(MACH)/threads/%.c) \
1172         $(UNICODEOBSJ:%.o=$(SRC)/common/unicode/%.c) \
1173         $(UNWINDMACHOBSJ:%.o=$(LIBCDIR)/port/unwind/%.c) \
1174         $(FPOBJS:%.o=$(LIBCDIR)/$(MACH)/fp/%.c) \
1175         $(LIBCBASE)/gen/ecvt.c \
1176         $(LIBCBASE)/gen/makectxt.c \
1177         $(LIBCBASE)/gen/signfolst.c \
1178         $(LIBCBASE)/gen/siglongjmp.c \
1179         $(LIBCBASE)/gen/strcmp.c \
1180         $(LIBCBASE)/gen/sync_instruction_memory.c \
1181         $(LIBCBASE)/sys/ptrace.c

```

```

1182      $(LIBCBASE)/sys/uadmin.c

1184 # conditional assignments
1185 $(DYNLIB) := CRTI = crti.o
1186 $(DYNLIB) := CRTN = crtn.o

1188 # Files which need the threads .il inline template
1189 TIL=
1190     aio.o
1191     alloc.o
1192     assfail.o
1193     atexit.o
1194     atfork.o
1195     cancel.o
1196     door_calls.o
1197     err.o
1198     errno.o
1199     lwp.o
1200     ma.o
1201     machdep.o
1202     posix_aio.o
1203     pthr_attr.o
1204     pthr_barrier.o
1205     pthr_cond.o
1206     pthr_mutex.o
1207     pthr_rwlock.o
1208     pthread.o
1209     rand.o
1210     rwlock.o
1211     scalls.o
1212     sched.o
1213     sema.o
1214     sigaction.o
1215     sigev_thread.o
1216     spawn.o
1217     stack.o
1218     synch.o
1219     tdb_agent.o
1220     thr.o
1221     thread_interface.o
1222     thread_pool.o
1223     tls.o
1224     tsd.o
1225     tmem.o
1226     unwind.o

1228 THREADS_INLINES = $(LIBCBASE)/threads/i386.il
1229 $(TIL:%=pics/%) := CFLAGS += $(THREADS_INLINES)

1231 # pics/mul64.o := CFLAGS += $(LIBCBASE)/crt/mul64.il

1233 # large-file-aware components that should be built large

1235 $(COMSYSOBS64:%=pics/%) := \
1236     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1238 $(SYSOBS64:%=pics/%) := \
1239     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1241 $(PORTGEN64:%=pics/%) := \
1242     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1244 $(PORTREGEX64:%=pics/%) := \
1245     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1247 $(PORTSTDIO64:%=pics/%) := \

```

```

1248     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1250 $(PORTSYS64:%=pics/%) := \
1251     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1253 $(PORTSTDIO_W:%=pics/%) := \
1254     CPPFLAGS += -D_WIDE

1256 $(PORTPRINT_W:%=pics/%) := \
1257     CPPFLAGS += -D_WIDE

1259 $(PORTPRINT_C89:%=pics/%) := \
1260     CPPFLAGS += -D_C89_INTMAX32

1262 $(PORTSTDIO_C89:%=pics/%) := \
1263     CPPFLAGS += -D_C89_INTMAX32

1265 $(PORTI18N_COND:%=pics/%) := \
1266     CPPFLAGS += -D_WCS_LOGLONG

1268 pics/arc4random.o := CPPFLAGS += -I$(SRC)/common/crypto/chacha

1270 pics/__clock_gettime.o := CPPFLAGS += $(COMPAGE_CPPFLAGS)

1272 .KEEP_STATE:

1274 all: $(LIBS) $(LIB_PIC)

1276 lint := CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1277 lint := CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1278 lint := LINTFLAGS += -mn -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED

1280 lint:
1281     @echo $(LINT.c) ...
1282     @$$(LINT.c) $(SRCS) $(LDLIBS)

1284 $(LINTLIB) := SRCS=$(LIBCDIR)/port/llib-lc
1285 $(LINTLIB) := CPPFLAGS += -D_MSE_INT_H
1286 $(LINTLIB) := LINTFLAGS=-nvx

1288 # object files that depend on inline template
1289 $(TIL:%=pics/%) := $(LIBCBASE)/threads/i386.il
1290 # pics/mul64.o := $(LIBCBASE)/crt/mul64.il

1292 # include common libc targets
1293 include $(LIBCDIR)/Makefile.targ

1295 # We need to strip out all CTF and DOF data from the static library
1296 $(LIB_PIC) := DIR = pics
1297 $(LIB_PIC): pics $$ (PIC)
1298     $(BUILD.AR)
1299     $(MCS) -d -n .SUNW_ctf $@ > /dev/null 2>&1
1300     $(MCS) -d -n .SUNW_dof $@ > /dev/null 2>&1
1301     $(AR) -ts $@ > /dev/null
1302     $(POST_PROCESS_A)

1304 $(LIBCBASE)/crt/_rtbootld.s: $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.c
1305     $(CC) $(CPPFLAGS) $(CTF_FLAGS) -O -S $(C_PICFLAGS) \
1306     $(LIBCBASE)/crt/_rtld.c -o $(LIBCBASE)/crt/_rtld.s
1307     $(CAT) $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.s > $@
1308     $(RM) $(LIBCBASE)/crt/_rtld.s

1310 # partially built from C source
1311 pics/_rtbootld.o: $(LIBCBASE)/crt/_rtbootld.s
1312     $(AS) $(ASFLAGS) $(LIBCBASE)/crt/_rtbootld.s -o $@
1313     $(CTFCONVERT_O)

```

```
1315 ASSYMDEP_OBJS=      \
1316     _lwp_mutex_unlock.o \
1317     _stack_grow.o     \
1318     getcontext.o      \
1319     setjmp.o           \
1320     tls_get_addr.o    \
1321     vforkx.o

1323 $(ASSYMDEP_OBJS:%=pics/%) :=      CPPFLAGS += -I.

1325 $(ASSYMDEP_OBJS:%=pics/%): assym.h

1327 # assym.h build rules

1329 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c

1331 genassym: $(GENASSYM_C)
1332     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \
1333     -D__EXTENSIONS__ $(CPPFLAGS.native) -o $@ $(GENASSYM_C)

1335 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in

1337 assym.h: $(OFFSETS) genassym
1338     $(OFFSETS_CREATE) <$(OFFSETS) >$@
1339     ./genassym >>$@

1341 # derived C source and related explicit dependencies
1342 $(LIBCDIR)/port/gen/errlst.c + \
1343 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1344     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist

1346 pics/errlst.o: $(LIBCDIR)/port/gen/errlst.c

1348 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c
```


new/usr/src/lib/libc/i386/gen/makectxt.c

1

```
*****
3621 Mon Sep  4 19:56:15 2017
new/usr/src/lib/libc/i386/gen/makectxt.c
8609 want a position independent CRT
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23  * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
24  * Use is subject to license terms.
25  */
27 /*      Copyright (c) 1988 AT&T */
28 /*      All Rights Reserved */
30 #pragma weak _makecontext = makecontext
32 #include "lint.h"
33 #include <stdarg.h>
34 #include <ucontext.h>
35 #include <sys/stack.h>
37 /*
38  * The ucontext_t that the user passes in must have been primed with a
39  * call to getcontext(2), have the uc_stack member set to reflect the
40  * stack which this context will use, and have the uc_link member set
41  * to the context which should be resumed when this context returns.
42  * When makecontext() returns, the ucontext_t will be set to run the
43  * given function with the given parameters on the stack specified by
44  * uc_stack, and which will return to the ucontext_t specified by uc_link.
45  */
47 /*
48  * The original i386 ABI said that the stack pointer need be only 4-byte
49  * aligned before a function call (STACK_ALIGN == 4). The ABI supplement
50  * version 1.0 changed the required alignment to 16-byte for the benefit of
51  * floating point code compiled using sse2. The compiler assumes this
52  * alignment and maintains it for calls it generates. If the stack is
53  * initially properly aligned, it will continue to be so aligned. If it is
54  * not initially so aligned, it will never become so aligned.
55  *
56  * One slightly confusing detail to keep in mind is that the 16-byte
57  * alignment (%esp & 0xf == 0) is true just *before* the call instruction.
58  * The call instruction will then push a return value, decrementing %esp by
59  * 4. Therefore, if one dumps %esp at the at the very first instruction in
60  * a function, it will end with a 0xc. The compiler expects this and
61  * compensates for it properly.
```

new/usr/src/lib/libc/i386/gen/makectxt.c

2

```
62 *
63 * Note: If you change this value, you need to change it in the following
64 * files as well:
65 *
66 * - lib/libc/i386/threads/machdep.c
67 * - lib/crt/i86/crti.s
68 * - lib/crt/i86/crt1.s
67 * - lib/common/i386/crti.s
68 * - lib/common/i386/crt1.s
69 */
70 #undef STACK_ALIGN
71 #define STACK_ALIGN 16
73 static void resumecontext(void);
75 void
76 makecontext(ucontext_t *ucp, void (*func)(), int argc, ...)
77 {
78     long *sp;
79     long *tsp;
80     va_list ap;
81     size_t size;
83     ucp->uc_mcontext.gregs[EIP] = (greg_t)func;
85     size = sizeof (long) * (argc + 1);
87     tsp = (long *)(((uintptr_t)ucp->uc_stack.ss_sp +
88                    ucp->uc_stack.ss_size - size) & ~(STACK_ALIGN - 1));
90     /*
91      * Since we're emulating the call instruction, we must push the
92      * return address (which involves adjusting the stack pointer to
93      * have the proper 4-byte bias).
94      */
95     sp = tsp - 1;
97     *sp = (long)resumecontext; /* return address */
99     ucp->uc_mcontext.gregs[UESP] = (greg_t)sp;
101     /*
102      * "push" all the arguments
103      */
104     va_start(ap, argc);
105     while (argc-- > 0)
106         *tsp++ = va_arg(ap, long);
107     va_end(ap);
108 }
unchanged_portion_omitted
```

```

*****
7130 Mon Sep 4 19:56:15 2017
new/usr/src/lib/libc/i386/threads/machdep.c
8609 want a position independent CRT
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
24 */

26 #include "thr_uberdata.h"
27 #include <procfs.h>
28 #include <ucontext.h>
29 #include <setjmp.h>

31 /*
32  * The stack needs to be 16-byte aligned with a 4-byte bias. See comment in
33  * lib/libc/i386/gen/makectxt.c.
34  *
35  * Note: If you change it, you need to change it in the following files as
36  * well:
37  *
38  * - lib/libc/i386/gen/makectxt.c
39  * - lib/crt/i86/crti.s
40  * - lib/crt/i86/crt1.s
41  * - lib/common/i386/crti.s
42  * - lib/common/i386/crt1.s
43  */
44 #undef STACK_ALIGN
45 #define STACK_ALIGN 16

45 extern int getlwpstatus(thread_t, lwpstatus_t *);
46 extern int putlwpregs(thread_t, prgregset_t);

48 void *
49 setup_top_frame(void *stk, size_t stksize, ulwp_t *ulwp)
50 {
51     uint32_t *stack;
52     struct {
53         uint32_t     rpc;
54         uint32_t     arg;
55         uint32_t     pad;
56         uint32_t     fp;
57         uint32_t     pc;
58     } frame;

```

```

60     /*
61     * Top-of-stack must be rounded down to STACK_ALIGN and
62     * there must be a minimum frame. Note: 'frame' is not a true
63     * stack frame (see <sys/frame.h>) but a construction made here to
64     * make it look like _lwp_start called the thread start function
65     * with a 16-byte aligned stack pointer (the address of frame.arg
66     * is the address that must be aligned on a 16-byte boundary).
67     */
68     stack = (uint32_t *)(((uintptr_t)stk + stksize) & ~(STACK_ALIGN-1));

70     /*
71     * This will return NULL if the kernel cannot allocate
72     * a page for the top page of the stack. This will cause
73     * thr_create(), pthread_create() or pthread_attr_setstack()
74     * to fail, passing the problem up to the application.
75     */
76     stack -= 5; /* make the address of frame.arg be 16-byte aligned */
77     frame.pc = 0;
78     frame.fp = 0; /* initial address for %ebp (see EBP below) */
79     frame.pad = 0;
80     frame.arg = (uint32_t)ulwp;
81     frame.rpc = (uint32_t)_lwp_start;
82     if (uucopy(&frame, (void *)stack, sizeof (frame)) == 0)
83         return (stack);
84     return (NULL);
85 }
_____unchanged_portion_omitted_____

```

new/usr/src/lib/libc/req.flg

1

```
*****
1100 Mon Sep  4 19:56:16 2017
new/usr/src/lib/libc/req.flg
8609 want a position independent CRT
*****
1 #!/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 (the "License").
7 # You may not use this file except in compliance with the License.
8 #
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19 #
20 # CDDL HEADER END
21 #
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25 #

27 find_files "s.*" usr/src/common/atomic
28 find_files "s.*" usr/src/common/dtrace
29 find_files "s.*" usr/src/common/secflags
30 find_files "s.*" usr/src/common/util
31 find_files "s.*" usr/src/lib/crt
31 find_files "s.*" usr/src/lib/common
```

```

*****
26473 Mon Sep  4 19:56:16 2017
new/usr/src/lib/libc/sparc/Makefile.com
8609 want a position independent CRT
*****
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25 # Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved.
26 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
27 # Copyright 2017 Nexenta Systems, Inc.
28 #
29 #
30 LIBCDIR=      $(SRC)/lib/libc
31 LIB_PIC=      libc_pic.a
32 VERS=        .1
33 CPP=         /usr/lib/cpp
34 TARGET_ARCH= sparc
35 #
36 # objects are grouped by source directory
37 #
38 # Symbol capabilities objects.
39 EXTPICS=
40 $(LIBCDIR)/capabilities/sun4u/sparc/pics/symcap.o \
41 $(LIBCDIR)/capabilities/sun4u-opl/sparc/pics/symcap.o \
42 $(LIBCDIR)/capabilities/sun4u-us3-hwcap1/sparc/pics/symcap.o \
43 $(LIBCDIR)/capabilities/sun4u-us3-hwcap2/sparc/pics/symcap.o \
44 $(LIBCDIR)/capabilities/sun4v-hwcap1/sparc/pics/symcap.o \
45 $(LIBCDIR)/capabilities/sun4v-hwcap2/sparc/pics/symcap.o
46 #
47 # local objects
48 STRETS=
49 stret1.o
50 stret2.o
51 stret4.o
52 #
53 CRTOBS=
54 _ftou.o
55 cerror.o
56 cerror64.o
57 hwmuldiv.o
58 #
59 DYNOBS=
60 _rtbootld.o

```

```

62 FPOBJS=
63 _D_cplx_div.o
64 _D_cplx_div_ix.o
65 _D_cplx_div_rx.o
66 _D_cplx_mul.o
67 _F_cplx_div.o
68 _F_cplx_div_ix.o
69 _F_cplx_div_rx.o
70 _F_cplx_mul.o
71 _Q_add.o
72 _Q_cmp.o
73 _Q_cmpe.o
74 _Q_cplx_div.o
75 _Q_cplx_div_ix.o
76 _Q_cplx_div_rx.o
77 _Q_cplx_lr_div.o
78 _Q_cplx_lr_div_ix.o
79 _Q_cplx_lr_div_rx.o
80 _Q_cplx_lr_mul.o
81 _Q_cplx_mul.o
82 _Q_div.o
83 _Q_dtoq.o
84 _Q_fcc.o
85 _Q_itoq.o
86 _Q_lltoq.o
87 _Q_mul.o
88 _Q_neg.o
89 _Q_qtod.o
90 _Q_qtoi.o
91 _Q_qtos.o
92 _Q_qtou.o
93 _Q_scl.o
94 _Q_set_except.o
95 _Q_sqrt.o
96 _Q_stoq.o
97 _Q_sub.o
98 _Q_ulltoq.o
99 _Q_utoq.o
100 __quad_mag.o
101 #
102 FPASMOBJS=
103 _Q_get_rp_rd.o
104 fpgetmask.o
105 fpgetrnd.o
106 fpgetsticky.o
107 fpsetmask.o
108 fpsetrnd.o
109 fpsetsticky.o
110 #
111 $(__GNUCC)FPASMOBJS +=
112 __quad.o
113 #
114 ATOMICOBJS=
115 atomic.o
116 #
117 CHACHAOBJS=
118 chacha.o
119 #
120 XATTROBJS=
121 xattr_common.o
122 #
123 COMOBS=
124 bcmp.o
125 bcopy.o
126 bzero.o
127 bsearch.o

```

```

128      memccpy.o      \
129      qsort.o        \
130      strtoul.o      \
131      strtoul.o      \
132      strtoll.o      \
133      strtoull.o     \

135 DTRACEOBS=      \
136      dtrace_data.o \

138 SECFLAGSOBS=    \
139      secflags.o    \

141 GENOBS=         \
142      _getsp.o      \
143      _xregs_clrptr.o \
144      abs.o         \
145      alloca.o      \
146      arc4random.o  \
147      arc4random_uniform.o \
148      ascii_strcasecmp.o \
149      byteorder.o   \
150      cuexit.o      \
151      ecvt.o        \
152      endian.o      \
153      errlst.o      \
154      gettxt.o      \
155      ladd.o        \
156      lmul.o        \
157      lock.o        \
158      lshifl.o      \
159      lsign.o       \
160      lsub.o        \
161      makectxt.o    \
162      memchr.o      \
163      memcmp.o      \
164      new_list.o    \
165      setjmp.o      \
166      siginfolst.o  \
167      siglongjmp.o \
168      smt_pause.o   \
169      sparc_data.o  \
170      strchr.o      \
171      strcmp.o      \
172      strlcpy.o     \
173      strncmp.o     \
174      strncpy.o     \
175      strnlen.o     \
176      swapctxt.o   \
177      sync_instruction_memory.o \

179 # sysobjs that contain large-file interfaces
180 COMSYSOBS64=     \
181      fstatvfs64.o \
182      getdents64.o \
183      getrlimit64.o \
184      lseek64.o    \
185      mmap64.o     \
186      pread64.o    \
187      preadv64.o   \
188      pwrite64.o   \
189      pwritev64.o  \
190      setrlimit64.o \
191      statvfs64.o  \

193 SYSOBS64=

```

```

195 COMSYSOBS=      \
196      __clock_timer.o \
197      __getloadavg.o  \
198      __rusagesys.o  \
199      __signotify.o   \
200      __sigrt.o       \
201      __time.o        \
202      _lgrp_home_fast.o \
203      _lgrpsys.o     \
204      _nfssys.o       \
205      _portfs.o      \
206      _pset.o         \
207      _rpcsys.o       \
208      _sigaction.o    \
209      _so_accept.o    \
210      _so_bind.o      \
211      _so_connect.o   \
212      _so_getpeername.o \
213      _so_getsockname.o \
214      _so_getsockopt.o \
215      _so_listen.o    \
216      _so_recv.o      \
217      _so_recvfrom.o  \
218      _so_recvmsg.o   \
219      _so_send.o      \
220      _so_sendmsg.o   \
221      _so_sendto.o    \
222      _so_setsockopt.o \
223      _so_shutdown.o  \
224      _so_socket.o    \
225      _so_socketpair.o \
226      _sockconfig.o   \
227      acct.o          \
228      acl.o           \
229      adjtime.o       \
230      alarm.o         \
231      brk.o           \
232      chdir.o         \
233      chroot.o        \
234      cladm.o         \
235      close.o         \
236      execve.o        \
237      exit.o          \
238      facl.o          \
239      fchdir.o        \
240      fchroot.o       \
241      fdsync.o        \
242      fpathconf.o     \
243      fstatfs.o       \
244      fstatvfs.o      \
245      getcpuid.o      \
246      getdents.o      \
247      getegid.o       \
248      geteuid.o       \
249      getgid.o        \
250      getgroups.o     \
251      gethrtime.o     \
252      getitimer.o     \
253      getmsg.o        \
254      getpid.o        \
255      getpmsg.o       \
256      getppid.o       \
257      getrandom.o     \
258      getrlimit.o     \
259      getuid.o        \

```

```

260      gtty.o                \|
261      install_utrap.o       \|
262      ioctl.o               \|
263      kaio.o                \|
264      kill.o                \|
265      llseek.o              \|
266      lseek.o               \|
267      memcntl.o             \|
268      mincore.o             \|
269      mmap.o                \|
270      mmapobjsys.o          \|
271      modctl.o              \|
272      mount.o               \|
273      mprotect.o            \|
274      munmap.o              \|
275      nice.o                \|
276      ntp_adjtime.o         \|
277      ntp_gettime.o         \|
278      p_online.o            \|
279      pathconf.o            \|
280      pause.o               \|
281      pcsample.o            \|
282      pipe2.o               \|
283      pollsys.o             \|
284      pread.o               \|
285      preadv.o              \|
286      priocntlset.o         \|
287      processor_bind.o      \|
288      processor_info.o      \|
289      profil.o              \|
290      psecflagsset.o        \|
291      putmsg.o              \|
292      putpmsg.o             \|
293      pwrite.o              \|
294      pwritev.o             \|
295      read.o                \|
296      readv.o               \|
297      resolvepath.o         \|
298      seteguid.o            \|
299      setgid.o              \|
300      setgroups.o           \|
301      setitimer.o           \|
302      setreid.o             \|
303      setrlimit.o           \|
304      setuid.o              \|
305      sigaltstk.o           \|
306      sigprocmsk.o          \|
307      sigsendset.o          \|
308      sigsuspend.o          \|
309      statfs.o              \|
310      statvfs.o             \|
311      stty.o                \|
312      sync.o                \|
313      sysconfig.o           \|
314      sysfs.o               \|
315      sysinfo.o             \|
316      syslwp.o              \|
317      times.o               \|
318      ulimit.o              \|
319      umask.o                \|
320      umount2.o             \|
321      utssys.o              \|
322      uucopy.o              \|
323      vhangup.o             \|
324      waitid.o              \|
325      write.o               \|

```

```

326      writev.o              \|
327      yield.o               \|

329  SYSOBJS=                  \|
330      __clock_gettime.o     \|
331      __getcontext.o        \|
332      __lwp_mutex_unlock.o  \|
333      __stack_grow.o        \|
334      __uadmin.o            \|
335      door.o                \|
336      forkx.o               \|
337      forkallx.o            \|
338      gettimeofday.o        \|
339      ptrace.o               \|
340      syscall.o             \|
341      tls_get_addr.o        \|
342      uadmin.o              \|
343      umount.o              \|
344      uname.o               \|
345      vforkx.o              \|

347  # objects under $(LIBCDIR)/port which contain transitional large file interfaces
348  PORTGEN64=                \|
349      _xftw64.o              \|
350      attropen64.o           \|
351      ftw64.o                \|
352      mkstemp64.o            \|
353      nftw64.o               \|
354      tell64.o               \|
355      truncate64.o           \|

357  # objects from source under $(LIBCDIR)/port
358  PORTFP=                    \|
359      __flt_decim.o          \|
360      __flt_rounds.o         \|
361      __tbl_10_b.o           \|
362      __tbl_10_h.o           \|
363      __tbl_10_s.o           \|
364      __tbl_2_b.o            \|
365      __tbl_2_h.o            \|
366      __tbl_2_s.o            \|
367      __tbl_fdq.o            \|
368      __tbl_tens.o           \|
369      __x_power.o            \|
370      _base_sup.o            \|
371      aconvert.o             \|
372      decimal_bin.o          \|
373      double_decim.o         \|
374      econvert.o             \|
375      fconvert.o             \|
376      file_decim.o           \|
377      finite.o               \|
378      fp_data.o              \|
379      func_decim.o           \|
380      gconvert.o             \|
381      hex_bin.o              \|
382      ieee_globals.o         \|
383      pack_float.o           \|
384      sigfpe.o               \|
385      string_decim.o         \|
386      ashldi3.o              \|
387      ashrdi3.o              \|
388      cmpdi2.o               \|
389      divdi3.o               \|
390      floatdidf.o            \|
391      floatdisf.o            \|

```

```

392 floatundidf.o \
393 floatundisf.o \
394 lshrdi3.o \
395 moddi3.o \
396 muldi3.o \
397 qdivrem.o \
398 ucmpdi2.o \
399 udivdi3.o \
400 umoddi3.o \

402 PORTGEN= \
403 _env_data.o \
404 _ftoll.o \
405 _ftoull.o \
406 _xftw.o \
407 a64l.o \
408 abort.o \
409 addsev.o \
410 ascii_strncasecmp.o \
411 assert.o \
412 atexit.o \
413 atfork.o \
414 atof.o \
415 atoi.o \
416 atol.o \
417 atoll.o \
418 attrat.o \
419 attropen.o \
420 basename.o \
421 calloc.o \
422 catgets.o \
423 catopen.o \
424 cfgetispeed.o \
425 cfgetospeed.o \
426 cfree.o \
427 cfsetispeed.o \
428 cfsetospeed.o \
429 cftime.o \
430 clock.o \
431 closedir.o \
432 closefrom.o \
433 confstr.o \
434 crypt.o \
435 csetlen.o \
436 ctime.o \
437 ctime_r.o \
438 daemon.o \
439 deflt.o \
440 directio.o \
441 dirname.o \
442 div.o \
443 drand48.o \
444 dup.o \
445 env_data.o \
446 err.o \
447 errno.o \
448 euclen.o \
449 event_port.o \
450 execvp.o \
451 explicit_bzero.o \
452 fattach.o \
453 fdetach.o \
454 fdopendir.o \
455 ffs.o \
456 flock.o \
457 fls.o \

```

```

458 fmtmsg.o \
459 freezero.o \
460 ftime.o \
461 ftok.o \
462 fts.o \
463 ftw.o \
464 gcvt.o \
465 get_nprocs.o \
466 getauxv.o \
467 getcwd.o \
468 getdate_err.o \
469 getdtblsize.o \
470 getentropy.o \
471 getenv.o \
472 getexecname.o \
473 getgrnam.o \
474 getgrnam_r.o \
475 gethostid.o \
476 gethostname.o \
477 gethz.o \
478 getisax.o \
479 getloadavg.o \
480 getlogin.o \
481 getmntent.o \
482 getnetgrent.o \
483 getopt.o \
484 getopt_long.o \
485 getpagesize.o \
486 getpw.o \
487 getpwnam.o \
488 getpwnam_r.o \
489 getrusage.o \
490 getspent.o \
491 getspent_r.o \
492 getsubopt.o \
493 gettxt.o \
494 getusershell.o \
495 getut.o \
496 getutx.o \
497 getvfsent.o \
498 getwd.o \
499 getwidth.o \
500 getxby_door.o \
501 gtxt.o \
502 hsearch.o \
503 iconv.o \
504 imaxabs.o \
505 imaxdiv.o \
506 index.o \
507 initgroups.o \
508 insque.o \
509 isaexec.o \
510 isastream.o \
511 isatty.o \
512 killpg.o \
513 klpdlib.o \
514 l64a.o \
515 lckpwn.o \
516 lconstants.o \
517 ldivide.o \
518 lexpl1.o \
519 lfind.o \
520 lfmt.o \
521 lfmt_log.o \
522 llabs.o \
523 lldiv.o \

```

```

524      llog10.o          \|
525      lltostr.o        \|
526      localtime.o     \|
527      lsearch.o       \|
528      madvise.o        \|
529      malloc.o         \|
530      memalign.o       \|
531      memmem.o         \|
532      mkdev.o          \|
533      mkdtemp.o        \|
534      mkfifo.o         \|
535      mkstemp.o        \|
536      mktemp.o         \|
537      mlock.o          \|
538      mlockall.o      \|
539      mon.o            \|
540      msync.o          \|
541      munlock.o        \|
542      munlockall.o    \|
543      ndbm.o           \|
544      nftw.o           \|
545      nlspath_checks.o \|
546      nsparse.o        \|
547      nss_common.o     \|
548      nss_dbdefs.o     \|
549      nss_deffinder.o  \|
550      opendir.o        \|
551      opt_data.o       \|
552      perror.o         \|
553      pfmt.o           \|
554      pfmt_data.o     \|
555      pfmt_print.o     \|
556      pipe.o           \|
557      plock.o          \|
558      poll.o           \|
559      posix_fadvise.o  \|
560      posix_fallocate.o \|
561      posix_madvise.o  \|
562      posix_memalign.o \|
563      prioctl.o        \|
564      priv_str_xlate.o \|
565      privlib.o        \|
566      psecflags.o      \|
567      psiginfo.o       \|
568      psignal.o        \|
569      pt.o             \|
570      putpwent.o       \|
571      putspent.o       \|
572      raise.o          \|
573      rand.o           \|
574      random.o         \|
575      rctlops.o        \|
576      readdir.o        \|
577      readdir_r.o      \|
578      reallocarray.o   \|
579      reallocarray.o   \|
580      realpath.o       \|
581      reboot.o         \|
582      regexpr.o        \|
583      remove.o         \|
584      rewinddir.o      \|
585      rindex.o         \|
586      scandir.o        \|
587      seekdir.o        \|
588      select.o         \|
589      setlabel.o       \|

```

```

590      setpriority.o    \|
591      settimeofday.o  \|
592      sh_locks.o      \|
593      sigflag.o       \|
594      siglist.o        \|
595      sigsend.o        \|
596      sigsetops.o     \|
597      ssignal.o        \|
598      stack.o          \|
599      stpcpy.o         \|
600      stpncpy.o        \|
601      str2sig.o        \|
602      strcase_charmap.o \|
603      strcat.o         \|
604      strchrnul.o      \|
605      strcspn.o        \|
606      strdup.o         \|
607      strerror.o       \|
608      strlcat.o        \|
609      strncat.o        \|
610      strndup.o        \|
611      strpbrk.o        \|
612      strrchr.o        \|
613      strsep.o         \|
614      strsignal.o      \|
615      strspn.o         \|
616      strstr.o         \|
617      strtod.o         \|
618      strtointmax.o   \|
619      strtok.o         \|
620      strtok_r.o      \|
621      strtonum.o       \|
622      strtoumax.o     \|
623      swab.o           \|
624      swapctl.o        \|
625      sysconf.o        \|
626      syslog.o         \|
627      tcdrain.o        \|
628      tcflow.o         \|
629      tcflush.o        \|
630      tcgetattr.o     \|
631      tcgetpgrp.o     \|
632      tcgetsid.o      \|
633      tcsendbreak.o   \|
634      tcsetattr.o     \|
635      tcsetpgrp.o     \|
636      tell.o           \|
637      telldir.o        \|
638      tfind.o          \|
639      time_data.o      \|
640      time_gdata.o    \|
641      timespec_get.o   \|
642      tls_data.o       \|
643      truncate.o       \|
644      tsdalloc.o       \|
645      tsearch.o        \|
646      ttyname.o        \|
647      ttyslot.o        \|
648      ualarm.o         \|
649      ucred.o          \|
650      valloc.o         \|
651      vlfmt.o          \|
652      vpfmt.o          \|
653      waitpid.o        \|
654      walkstack.o     \|
655      wdata.o          \|

```



```

656         xgetwidth.o          \
657         xpg4.o              \
658         xpg6.o              \
660 PORTPRINT_W=              \
661         doprnt_w.o          \
663 PORTPRINT=                 \
664         asprintf.o          \
665         doprnt.o            \
666         fprintf.o           \
667         printf.o            \
668         snprintf.o          \
669         sprintf.o           \
670         vfprintf.o          \
671         vprintf.o           \
672         vsnprintf.o         \
673         vsprintf.o          \
674         vwprintf.o          \
675         wprintf.o           \
677 # c89 variants to support 32-bit size of c89 u/intmax_t (32-bit libc only)
678 PORTPRINT_C89=            \
679         vfprintf_c89.o       \
680         vprintf_c89.o        \
681         vsnprintf_c89.o      \
682         vsprintf_c89.o       \
683         vwprintf_c89.o       \
685 PORTSTDIO_C89=           \
686         vscanf_c89.o         \
687         wscanf_c89.o         \
689 # portable stdio objects that contain large file interfaces.
690 # Note: fopen64 is a special case, as we build it small.
691 PORTSTDIO64=              \
692         fopen64.o            \
693         fpos64.o             \
695 PORTSTDIO_W=              \
696         doscan_w.o           \
698 PORTSTDIO=                \
699         __extensions.o       \
700         _endopen.o           \
701         _filbuf.o            \
702         _findbuf.o           \
703         _flsbuf.o            \
704         _wrtchk.o            \
705         clearerr.o           \
706         ctermid.o            \
707         ctermid_r.o          \
708         cuserid.o            \
709         data.o                \
710         doscan.o              \
711         fdopen.o             \
712         feof.o                \
713         ferrord.o            \
714         fgetc.o               \
715         fgets.o               \
716         fileno.o              \
717         flockf.o              \
718         flush.o               \
719         fopen.o                \
720         fpos.o                 \
721         fputc.o                \

```

```

722         fputs.o              \
723         fread.o               \
724         fseek.o               \
725         fseeko.o             \
726         ftell.o              \
727         ftello.o             \
728         fwrite.o             \
729         getc.o                \
730         getchar.o            \
731         getline.o            \
732         getpass.o            \
733         gets.o                \
734         getw.o                \
735         popen.o               \
736         putc.o                \
737         putchar.o            \
738         puts.o                \
739         putw.o                \
740         rewind.o              \
741         scanf.o               \
742         setbuf.o              \
743         setbuffer.o           \
744         setvbuf.o             \
745         system.o              \
746         tempnam.o             \
747         tmpfile.o             \
748         tmpnam_r.o            \
749         ungetc.o              \
750         mse.o                  \
751         vscanf.o              \
752         vwscanf.o             \
753         wscanf.o              \
755 PORTI18N=                  \
756         getwchar.o            \
757         putwchar.o            \
758         putws.o               \
759         strtows.o             \
760         wcsnlen.o             \
761         wcstoimax.o           \
762         wcstol.o              \
763         wcstoul.o             \
764         wcs wcs.o             \
765         wscat.o               \
766         wschr.o               \
767         wscmp.o               \
768         wscopy.o              \
769         wcs spn.o              \
770         wsdup.o               \
771         wslen.o               \
772         wscat.o               \
773         wscmp.o               \
774         wscpy.o               \
775         wspbrk.o              \
776         wsprintf.o            \
777         wsrchr.o              \
778         wsscanf.o             \
779         wsspn.o               \
780         wstod.o               \
781         wstok.o               \
782         wstol.o               \
783         wstoll.o              \
784         wsxfrm.o              \
785         wmemchr.o             \
786         wmemcmp.o             \
787         wmemcpy.o             \

```

```

788      wmemmove.o      \
789      wmemset.o       \
790      wcsstr.o        \
791      gettext.o       \
792      gettext_real.o  \
793      gettext_util.o  \
794      gettext_gnu.o   \
795      plural_parser.o \
796      wdresolve.o     \
797      _ctype.o        \
798      isascii.o       \
799      toascii.o       \

801 PORTI18N_COND=    \
802      wcstol_longlong.o \
803      wcstoul_longlong.o \

805 PORTLOCALE=      \
806      big5.o          \
807      btowc.o         \
808      collate.o       \
809      collcmp.o       \
810      euc.o           \
811      fnmatch.o       \
812      fgetwc.o        \
813      fgetws.o        \
814      fix_grouping.o  \
815      fputwc.o        \
816      fputws.o        \
817      fwide.o         \
818      gb18030.o       \
819      gb2312.o        \
820      gbk.o           \
821      getdate.o       \
822      isdigit.o       \
823      iswctype.o     \
824      ldpair.o        \
825      lmessages.o    \
826      lnumeric.o     \
827      lmonetary.o    \
828      localeimpl.o   \
829      localeconv.o   \
830      mbftowc.o       \
831      mblen.o         \
832      mbrlen.o        \
833      mbrtowc.o       \
834      mbsinit.o       \
835      mbsnrtowcs.o   \
836      mbsrtowcs.o    \
837      mbstowcs.o     \
838      mbtowc.o        \
839      mskanji.o       \
840      nextwctype.o   \
841      nl_langinfo.o  \
842      none.o          \
843      rune.o          \
844      runetype.o     \
845      setlocale.o    \
846      setrunelocale.o \
847      strcasecmp.o   \
848      strcasestr.o   \
849      strcoll.o       \
850      strfmon.o       \
851      strftime.o      \
852      strncasecmp.o  \
853      strptime.o     \

```

```

854      strxfrm.o      \
855      table.o        \
856      timelocal.o   \
857      tolower.o     \
858      towlower.o    \
859      ungetwc.o     \
860      utf8.o         \
861      wcrntomb.o    \
862      wcscasecmp.o  \
863      wcscoll.o     \
864      wcsftime.o    \
865      wcsnrtombs.o  \
866      wcsrtombs.o   \
867      wcstombs.o    \
868      wcswidth.o    \
869      wcsxfrm.o     \
870      wctob.o       \
871      wctomb.o      \
872      wctrans.o     \
873      wctype.o      \
874      wcwidth.o     \
875      wscoll.o      \

877 AIOOBJS=         \
878      aio.o          \
879      aio_alloc.o   \
880      posix_aio.o   \

882 RTOBJS=          \
883      clock_timer.o \
884      mqueue.o      \
885      pos4obj.o     \
886      sched.o       \
887      sem.o         \
888      shm.o         \
889      sigev_thread.o \

891 TPOOLBJS=        \
892      thread_pool.o \

894 THREADSOBJS=     \
895      alloc.o       \
896      assfail.o     \
897      cancel.o      \
898      cli_thr.o     \
899      door_calls.o  \
900      tmem.o        \
901      pthr_attr.o   \
902      pthr_barrier.o \
903      pthr_cond.o   \
904      pthr_mutex.o  \
905      pthr_rwlock.o \
906      pthread.o     \
907      rwlock.o      \
908      scalls.o      \
909      sema.o        \
910      sigaction.o   \
911      spawn.o       \
912      synch.o       \
913      tdb_agent.o   \
914      thr.o         \
915      thread_interface.o \
916      tls.o         \
917      tsd.o         \

919 THREADSMACHOBJS= \

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```

920      machdep.o
922 THREADSASMOBJS= \
923      asm_subr.o
925 UNICODOBJS= \
926      u8_textprep.o \
927      uconv.o
929 UNWINDMACHOBJS= \
930      unwind.o
932 UNWINDASMOBJS= \
933      unwind_frame.o
935 # objects that implement the transitional large file API
936 PORTSYS64= \
937      lockf64.o \
938      stat64.o
940 PORTSYS= \
941      _autofssys.o \
942      access.o \
943      acctctl.o \
944     bsd_signal.o \
945      chmod.o \
946      chown.o \
947      corectl.o \
948      epoll.o \
949      eventfd.o \
950      exacctsyst.o \
951      execl.o \
952      execl.o \
953      execv.o \
954      fcntl.o \
955      getpagesizes.o \
956      getpeerucred.o \
957      inst_sync.o \
958      issetugid.o \
959      label.o \
960      link.o \
961      lockf.o \
962      lwp.o \
963      lwp_cond.o \
964      lwp_rwlock.o \
965      lwp_sigmask.o \
966      meminfosyst.o \
967      mkdir.o \
968      mknod.o \
969      msgsys.o \
970      nfssyst.o \
971      open.o \
972      pgrpsyst.o \
973      posix_sigwait.o \
974      ppriv.o \
975      psetsyst.o \
976      rctlsyst.o \
977      readlink.o \
978      rename.o \
979      sbrk.o \
980      semsyst.o \
981      set_errno.o \
982      sharefs.o \
983      shmsyst.o \
984      sidsyst.o \
985      siginterrupt.o \

```

```

986      signal.o \
987      signalfd.o \
988      sigpending.o \
989      sigstack.o \
990      stat.o \
991      symlink.o \
992      tasksys.o \
993      time.o \
994      time_util.o \
995      timerfd.o \
996      ucontext.o \
997      unlink.o \
998      ustat.o \
999      utimesyst.o \
1000     zone.o
1002 PORTREGEX= \
1003     glob.o \
1004     regcmp.o \
1005     regcomp.o \
1006     regerror.o \
1007     regex.o \
1008     regexec.o \
1009     regfree.o \
1010     wordexp.o
1012 PORTREGEX64= \
1013     glob64.o
1015 VALUES= values-Xa.o
1017 MOSTOBJS= \
1018     $(STRETS) \
1019     $(CRTOBJS) \
1020     $(DYNOBJS) \
1021     $(FPOBJS) \
1022     $(FPASMOBJS) \
1023     $(ATOMICOBJS) \
1024     $(CHACHAOBJS) \
1025     $(XATTROBJS) \
1026     $(COMOBJS) \
1027     $(DTRACEOBJS) \
1028     $(GENOBJS) \
1029     $(PRFOBJS) \
1030     $(PORTFP) \
1031     $(PORTGEN) \
1032     $(PORTGEN64) \
1033     $(PORTI18N) \
1034     $(PORTI18N_COND) \
1035     $(PORTLOCALE) \
1036     $(PORTPRINT) \
1037     $(PORTPRINT_C89) \
1038     $(PORTPRINT_W) \
1039     $(PORTREGEX) \
1040     $(PORTREGEX64) \
1041     $(PORTSTDIO) \
1042     $(PORTSTDIO64) \
1043     $(PORTSTDIO_C89) \
1044     $(PORTSTDIO_W) \
1045     $(PORTSYS) \
1046     $(PORTSYS64) \
1047     $(AIOOBJS) \
1048     $(RTOBJS) \
1049     $(SECFLAGSOBJS) \
1050     $(TPOOLBJS) \
1051     $(THREADSOBJS) \

```

```

1052      $(THREADSMACHOBJS)  \
1053      $(THREADSASMOBJS)   \
1054      $(UNICODEOBJS)      \
1055      $(UNWINDMACHOBJS)   \
1056      $(UNWINDASMOBJS)   \
1057      $(COMSYSOBJS)       \
1058      $(SYSOBJS)          \
1059      $(COMSYSOBJS64)     \
1060      $(SYSOBJS64)        \
1061      $(VALUES)

1063 TRACEOBJS= \
1064      plockstat.o

1066 # NOTE: libc.so.1 must be linked with the minimal crt1.o and crtn.o
1067 # modules whose source is provided in the $(SRC)/lib/crt directory.
1068 # modules whose source is provided in the $(SRC)/lib/common directory.
1069 # This must be done because otherwise the Sun C compiler would insert
1070 # its own versions of these modules and those versions contain code
1071 # to call out to C++ initialization functions. Such C++ initialization
1072 # functions can call back into libc before thread initialization is
1073 # complete and this leads to segmentation violations and other problems.
1074 # Since libc contains no C++ code, linking with the minimal crt1.o and
1075 # crtn.o modules is safe and avoids the problems described above.
1076 OBJECTS= $(CRTI) $(MOSTOBJS) $(CRTN)
1077 CRTSRCS= ../../crt/sparcv7
1078 CRTSRCS= ../../common/sparc

1078 # include common library definitions
1079 include $(SRC)/lib/Makefile.lib

1081 # we need to override the default SONAME here because we might
1082 # be building a variant object (still libc.so.1, but different filename)
1083 SONAME = libc.so.1

1085 CFLAGS += $(CCVERBOSE)

1087 # This is necessary to avoid problems with calling _ex_unwind().
1088 # We probably don't want any inlining anyway.
1089 CFLAGS += -xinline=

1091 CERRWARN += _gcc=-Wno-parentheses
1092 CERRWARN += _gcc=-Wno-switch
1093 CERRWARN += _gcc=-Wno-uninitialized
1094 CERRWARN += _gcc=-Wno-unused-value
1095 CERRWARN += _gcc=-Wno-unused-label
1096 CERRWARN += _gcc=-Wno-unused-variable
1097 CERRWARN += _gcc=-Wno-type-limits
1098 CERRWARN += _gcc=-Wno-char-subscripts
1099 CERRWARN += _gcc=-Wno-clobbered
1100 CERRWARN += _gcc=-Wno-unused-function
1101 CERRWARN += _gcc=-Wno-address

1103 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1104 # enables ASSERT() checking in the threads portion of the library.
1105 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1106 THREAD_DEBUG =
1107 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1109 # Make string literals read-only to save memory.
1110 CFLAGS += $(XSTRCONST)

1112 ALTPICS= $(TRACEOBJS:%=pics/%)

1114 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)

```

```

1116 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1118 CFLAGS += $(EXTN_CFLAGS)
1119 CPPFLAGS= -D_REENTRANT -Dsparc $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1120           -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1121 ASFLAGS= $(EXTN_ASFLAGS) -K pic -P -D__STDC__ -D_ASM $(CPPFLAGS) $(sparc_

1123 # As a favor to the dtrace syscall provider, libc still calls the
1124 # old syscall traps that have been obsoleted by the *at() interfaces.
1125 # Delete this to compile libc using only the new *at() system call traps
1126 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1128 # Inform the run-time linker about libc specialized initialization
1129 RTLDINFO = -z rtldinfo=tls_rtldinfo
1130 DYNFLAGS += $(RTLDINFO)

1132 # Force libc's internal references to be resolved immediately upon loading
1133 # in order to avoid critical region problems. Since almost all libc symbols
1134 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1135 DYNFLAGS += -znow

1137 DYNFLAGS += -e __rtboot
1138 DYNFLAGS += $(EXTN_DYNFLAGS)

1140 # Inform the kernel about the initial DTrace area (in case
1141 # libc is being used as the interpreter / runtime linker).
1142 DTRACE_DATA = -zdtrace=dtrace_data
1143 DYNFLAGS += $(DTRACE_DATA)

1145 # DTrace needs an executable data segment.
1146 MAPFILE.NED=

1148 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1150 # Override this top level flag so the compiler builds in its native
1151 # C99 mode. This has been enabled to support the complex arithmetic
1152 # added to libc.
1153 C99MODE= $(C99_ENABLE)

1155 # libc method of building an archive
1156 # The "$(GREP) -v ' L '" part is necessary only until
1157 # lorder is fixed to ignore thread-local variables.
1158 BUILD.AR= $(RM) $@ ; \
1159           $(AR) q $@ '$(LORDER) $(MOSTOBJS:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1161 # extra files for the clean target
1162 CLEANFILES= \
1163           $(LIBCDIR)/port/gen/errlst.c \
1164           $(LIBCDIR)/port/gen/new_list.c \
1165           assym.h \
1166           genassym \
1167           $(LIBCBASE)/crt/_rtld.s \
1168           $(LIBCBASE)/crt/_rtbootld.s \
1169           pics/_rtbootld.o \
1170           pics/crt1.o \
1171           pics/crtn.o \
1172           $(ALTPICS)

1174 CLOBBERFILES += $(LIB_PIC)

1176 # list of C source for lint
1177 SRCS= \
1178       $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1179       $(XATTROBJS:%.o=$(SRC)/common/xattr/%.c) \
1180       $(COMOBJS:%.o=$(SRC)/common/util/%.c) \
1181       $(DTRACEOBJS:%.o=$(SRC)/common/dtrace/%.c) \

```

```

1182 $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1183 $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1184 $(PORTI18N:%.o=$(LIBCDIR)/port/i18n/%.c) \
1185 $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \
1186 $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1187 $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1188 $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1189 $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1190 $(AIOBJS:%.o=$(LIBCDIR)/port/aio/%.c) \
1191 $(RTOBJS:%.o=$(LIBCDIR)/port/rt/%.c) \
1192 $(SECFLAGSOBJS:%.o=$(SRC)/common/secflags/%.c) \
1193 $(TPOOLBJS:%.o=$(LIBCDIR)/port/tpool/%.c) \
1194 $(THREADSOBJS:%.o=$(LIBCDIR)/port/threads/%.c) \
1195 $(THREADSMACHOBJS:%.o=$(LIBCDIR)/$(MACH)/threads/%.c) \
1196 $(UNICODEOBJS:%.o=$(SRC)/common/unicode/%.c) \
1197 $(UNWINDMACHOBJS:%.o=$(LIBCDIR)/port/unwind/%.c) \
1198 $(FPOBJS:%.o=$(LIBCDIR)/$(MACH)/fp/%.c) \
1199 $(LIBCBASE)/crt/_ftou.c \
1200 $(LIBCBASE)/gen/_xregs_clrptr.c \
1201 $(LIBCBASE)/gen/byteorder.c \
1202 $(LIBCBASE)/gen/ecvt.c \
1203 $(LIBCBASE)/gen/endian.c \
1204 $(LIBCBASE)/gen/gettxt.c \
1205 $(LIBCBASE)/gen/lmul.c \
1206 $(LIBCBASE)/gen/makeetxt.c \
1207 $(LIBCBASE)/gen/signfolst.c \
1208 $(LIBCBASE)/gen/siglongjmp.c \
1209 $(LIBCBASE)/gen/swaptxt.c \
1210 $(LIBCBASE)/sys/ptrace.c \
1211 $(LIBCBASE)/sys/uadmin.c

```

```

1213 # conditional assignments
1214 $(DYNLIB) := CRTI = crt.i.o
1215 $(DYNLIB) := CRTN = crtn.o

```

```

1217 # Files which need the threads .il inline template
1218 TIL= \
1219 aio.o \
1220 alloc.o \
1221 assfail.o \
1222 atexit.o \
1223 atfork.o \
1224 cancel.o \
1225 door_calls.o \
1226 err.o \
1227 errno.o \
1228 gettxt.o \
1229 lwp.o \
1230 ma.o \
1231 machdep.o \
1232 posix_aio.o \
1233 pthr_attr.o \
1234 pthr_barrier.o \
1235 pthr_cond.o \
1236 pthr_mutex.o \
1237 pthr_rwlock.o \
1238 pthread.o \
1239 rand.o \
1240 rwlock.o \
1241 scalls.o \
1242 sched.o \
1243 sema.o \
1244 sigaction.o \
1245 sigev_thread.o \
1246 spawn.o \
1247 stack.o \

```

```

1248 swaptxt.o \
1249 synch.o \
1250 tdb_agent.o \
1251 thr.o \
1252 thread_interface.o \
1253 thread_pool.o \
1254 tls.o \
1255 tsd.o \
1256 unwind.o

1258 $(TIL:%=pics%) := CFLAGS += $(LIBCBASE)/threads/sparc.il

1260 # special kludge for inlines with 'cas':
1261 pics/rwlock.o pics/synch.o pics/lwp.o pics/door_calls.o := \
1262     sparc_CFLAGS += -gcc=-Wa,-xarch=v8plus

1264 # Files in port/fp subdirectory that need base.il inline template
1265 IL= \
1266     __flt_decim.o \
1267     decimal_bin.o

1269 $(IL:%=pics%) := CFLAGS += $(LIBCBASE)/fp/base.il

1271 # Files in fp subdirectory which need __quad.il inline template
1272 QIL= \
1273     _Q_add.o \
1274     _Q_cmp.o \
1275     _Q_cmpe.o \
1276     _Q_div.o \
1277     _Q_dtoq.o \
1278     _Q_fcc.o \
1279     _Q_mul.o \
1280     _Q_qtod.o \
1281     _Q_qtoi.o \
1282     _Q_qtos.o \
1283     _Q_qtou.o \
1284     _Q_sqrt.o \
1285     _Q_stoq.o \
1286     _Q_sub.o

1288 $(QIL:%=pics%) := CFLAGS += $(LIBCDIR)/$(MACH)/fp/__quad.il
1289 pics/_Q%.o := sparc_COPTFLAG = -xO4 -dalign
1290 pics/__quad%.o := sparc_COPTFLAG = -xO4 -dalign

1292 # large-file-aware components that should be built large

1294 $(COMSYSOBS64:%=pics%) := \
1295     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1297 $(SYSOBS64:%=pics%) := \
1298     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1300 $(PORTGEN64:%=pics%) := \
1301     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1303 $(PORTREGEX64:%=pics%) := \
1304     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1306 $(PORTSTDIO64:%=pics%) := \
1307     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1309 $(PORTSYS64:%=pics%) := \
1310     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1312 $(PORTSTDIO_W:%=pics%) := \
1313     CPPFLAGS += -D_WIDE

```

```

1315 $(PORTPRINT_W:%=pics/%) := \
1316     CPPFLAGS += -D_WIDE

1318 # printf/scanf functions to support c89-sized intmax_t variables
1319 $(PORTPRINT_C89:%=pics/%) := \
1320     CPPFLAGS += -D_C89_INTMAX32

1322 $(PORTSTDIO_C89:%=pics/%) := \
1323     CPPFLAGS += -D_C89_INTMAX32

1325 $(PORTI18N_COND:%=pics/%) := \
1326     CPPFLAGS += -D_WCS_LOGLONG

1328 pics/arc4random.o :=     CPPFLAGS += -I$(SRC)/common/crypto/chacha

1330 # Files which need extra optimization
1331 pics/getenv.o := sparc_COPTFLAG = -xO4

1333 .KEEP_STATE:

1335 all: $(LIBS) $(LIB_PIC)

1337 lint :=     CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1338 lint :=     CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1339 lint :=     LINTFLAGS += -mn

1341 lint:
1342     @echo $(LINT.c) ... $(LDLIBS)
1343     @$$(LINT.c) $(SRCS) $(LDLIBS)

1345 $(LINTLIB) := SRCS=$(LIBCDIR)/port/llib-1c
1346 $(LINTLIB) := CPPFLAGS += -D_MSE_INT_H
1347 $(LINTLIB) := LINTFLAGS=-nvx

1349 # object files that depend on inline template
1350 $(TIL:%=pics/%) := $(LIBCBASE)/threads/sparc.il
1351 $(IL:%=pics/%) := $(LIBCBASE)/fp/base.il
1352 $(QIL:%=pics/%) := $(LIBCDIR)/$(MACH)/fp/__quad.il

1354 # include common libc targets
1355 include $(LIBCDIR)/Makefile.targ

1357 # We need to strip out all CTF and DOF data from the static library
1358 $(LIB_PIC) := DIR = pics
1359 $(LIB_PIC): pics $$$(PICS)
1360     $(BUILD.AR)
1361     $(MCS) -d -n .SUNW_ctf $$@ > /dev/null 2>&1
1362     $(MCS) -d -n .SUNW_dof $$@ > /dev/null 2>&1
1363     $(AR) -ts $$@ > /dev/null
1364     $(POST_PROCESS_A)

1366 # special cases
1367 $(STRETS:%=pics/%) := $(LIBCBASE)/crt/stret.s
1368     $(AS) $(ASFLAGS) -DSTRET$(@F:stret%.o=%) $(LIBCBASE)/crt/stret.s -o $$@
1369     $(POST_PROCESS_O)

1371 $(LIBCBASE)/crt/_rtbootld.s: $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.
1372     $(CC) $(CPPFLAGS) $(CTF_FLAGS) -O -S -K pic \
1373     $(LIBCBASE)/crt/_rtld.c -o $(LIBCBASE)/crt/_rtld.s
1374     $(CAT) $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.s > $$@
1375     $(RM) $(LIBCBASE)/crt/_rtld.s

1377 # partially built from C source
1378 pics/_rtbootld.o: $(LIBCBASE)/crt/_rtbootld.s
1379     $(AS) $(ASFLAGS) $(LIBCBASE)/crt/_rtbootld.s -o $$@

```

```

1380     $(CTFCONVERT_O)

1382 ASSYMDEP_OBJS= \
1383     _lwp_mutex_unlock.o \
1384     _stack_grow.o \
1385     asm_subr.o \
1386     setjmp.o \
1387     smt_pause.o \
1388     tls_get_addr.o \
1389     unwind_frame.o \
1390     vforkx.o

1392 $(ASSYMDEP_OBJS:%=pics/%) :=     CPPFLAGS += -I.

1394 $(ASSYMDEP_OBJS:%=pics/%) := assym.h

1396 # assym.h build rules

1398 assym.h := CFLAGS += -g

1400 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c

1402 genassym: $(GENASSYM_C)
1403     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \
1404     $(CPPFLAGS.native) -o $$@ $(GENASSYM_C)

1406 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in

1408 assym.h: $(OFFSETS) genassym
1409     $(OFFSETS_CREATE) <$(OFFSETS) >$$@
1410     ./genassym >>$$@

1412 # derived C source and related explicit dependencies
1413 $(LIBCDIR)/port/gen/errlst.c + \
1414 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1415     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist

1417 pics/errlst.o: $(LIBCDIR)/port/gen/errlst.c

1419 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c

```

```

*****
25007 Mon Sep  4 19:56:17 2017
new/usr/src/lib/libc/sparcv9/Makefile.com
8609 want a position independent CRT
*****
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 2016 Gary Mills
24 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
25 # Copyright (c) 2015, Joyent, Inc. All rights reserved.
26 # Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved.
27 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
28 # Copyright 2017 Nexenta Systems, Inc.
29 #
30 #
31 LIBCDIR=      $(SRC)/lib/libc
32 LIB_PIC=      libc_pic.a
33 VERS=         .1
34 CPP=          /usr/lib/cpp
35 TARGET_ARCH=  spar

37 # objects are grouped by source directory

39 # Symbol capabilities objects.
40 EXTPICS=      \
41 $(LIBCDIR)/capabilities/sun4u/sparcv9/pics/symcap.o \
42 $(LIBCDIR)/capabilities/sun4u-op1/sparcv9/pics/symcap.o \
43 $(LIBCDIR)/capabilities/sun4u-us3-hwcap1/sparcv9/pics/symcap.o \
44 $(LIBCDIR)/capabilities/sun4u-us3-hwcap2/sparcv9/pics/symcap.o \
45 $(LIBCDIR)/capabilities/sun4v-hwcap1/sparcv9/pics/symcap.o \
46 $(LIBCDIR)/capabilities/sun4v-hwcap2/sparcv9/pics/symcap.o

48 # local objects
49 STRETS=

51 CRTOBSJ=     \
52 __align_cpy_2.o \
53 __align_cpy_4.o \
54 __align_cpy_8.o \
55 __ftou.o \
56 cerror.o

58 DYNOBJS=

60 FPOBJS=      \
61 __D_cplx_div.o \

```

```

62 __D_cplx_div_ix.o \
63 __D_cplx_div_rx.o \
64 __D_cplx_mul.o \
65 __F_cplx_div.o \
66 __F_cplx_div_ix.o \
67 __F_cplx_div_rx.o \
68 __F_cplx_mul.o \
69 __Q_add.o \
70 __Q_cmp.o \
71 __Q_cmpe.o \
72 __Q_cplx_div.o \
73 __Q_cplx_div_ix.o \
74 __Q_cplx_div_rx.o \
75 __Q_cplx_lr_div.o \
76 __Q_cplx_lr_div_ix.o \
77 __Q_cplx_lr_div_rx.o \
78 __Q_cplx_lr_mul.o \
79 __Q_cplx_mul.o \
80 __Q_div.o \
81 __Q_dtoq.o \
82 __Q_fcc.o \
83 __Q_itoq.o \
84 __Q_mul.o \
85 __Q_neg.o \
86 __Q_qtod.o \
87 __Q_qtoi.o \
88 __Q_qtos.o \
89 __Q_qtou.o \
90 __Q_scl.o \
91 __Q_sqrt.o \
92 __Q_stoq.o \
93 __Q_sub.o \
94 __Q_utoq.o

96 FPOBJS64=   \
97 __Qp_qtox.o \
98 __Qp_qtoux.o \
99 __Qp_xtou.o \
100 __Qp_uxtoq.o \
101 __dtoul.o \
102 __ftoul.o

104 FPASMOBJS=  \
105 __Q_get_rp_rd.o \
106 __quad_mag64.o \
107 fpgetmask.o \
108 fpgetrnd.o \
109 fpgetsticky.o \
110 fpsetmask.o \
111 fpsetrnd.o \
112 fpsetsticky.o

114 $(__GNUC)FPASMOBJS += \
115 __quad.o

117 ATOMICOBJS= \
118 atomic.o

120 CHACHAOBJS= \
121 chacha.o

123 XATTROBJS=  \
124 xattr_common.o

126 COMOBJS=    \
127 bcmp.o \

```

```

128      bcopy.o          \
129      bsearch.o       \
130      bzero.o         \
131      memccpy.o       \
132      qsort.o         \
133      strtol.o        \
134      strtoul.o       \
135      strtoll.o       \
136      strtoull.o      \

138 GENOBJS=           \
139      _getsp.o        \
140      _xregs_clrptr.o \
141      abs.o           \
142      alloca.o        \
143      arc4random.o    \
144      arc4random_uniform.o \
145      ascii_strcasecmp.o \
146      byteorder.o    \
147      cuexit.o       \
148      ecvt.o         \
149      endian.o       \
150      getctxt.o      \
151      lock.o         \
152      makectxt.o     \
153      memchr.o       \
154      memcmp.o       \
155      new_list.o     \
156      setjmp.o       \
157      siginfolst.o   \
158      siglongjmp.o   \
159      smt_pause.o    \
160      sparc_data.o   \
161      strchr.o       \
162      strcmp.o       \
163      strlcpy.o      \
164      strncmp.o      \
165      strncpy.o      \
166      strnlen.o      \
167      swapctxt.o    \
168      sync_instruction_memory.o \

170 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
171 # This macro should ALWAYS be empty; native APIs are already 'large file'.
172 COMSYSOBJS64=

174 SYSOBJS64=

176 COMSYSOBJS=       \
177      __clock_timer.o \
178      __getloadavg.o  \
179      __rusagesys.o  \
180      __signotify.o  \
181      __sigrt.o      \
182      __time.o       \
183      _lgrp_home_fast.o \
184      _lgrpsys.o     \
185      _nfssys.o      \
186      _portfs.o      \
187      _pset.o        \
188      _rpcsys.o      \
189      _sigaction.o   \
190      _so_accept.o   \
191      _so_bind.o     \
192      _so_connect.o  \
193      _so_getpeername.o \

```

```

194      _so_getsockname.o \
195      _so_getsockopt.o  \
196      _so_listen.o     \
197      _so_recv.o       \
198      _so_recvfrom.o   \
199      _so_recvmsg.o    \
200      _so_send.o       \
201      _so_sendmsg.o    \
202      _so_sendto.o     \
203      _so_setsockopt.o \
204      _so_shutdown.o   \
205      _so_socket.o     \
206      _so_socketpair.o \
207      _sockconfig.o    \
208      acct.o           \
209      acl.o            \
210      adjtime.o        \
211      alarm.o          \
212      brk.o            \
213      chdir.o          \
214      chroot.o         \
215      cladm.o          \
216      close.o          \
217      execve.o         \
218      exit.o           \
219      faccl.o          \
220      fchdir.o         \
221      fchroot.o        \
222      fdsync.o         \
223      fpathconf.o     \
224      fstatfs.o        \
225      fstatvfs.o      \
226      getcpuid.o      \
227      getdents.o      \
228      getegid.o        \
229      geteuid.o        \
230      getgid.o         \
231      getgroups.o     \
232      gethrtime.o     \
233      getitimer.o     \
234      getmsg.o         \
235      getpid.o         \
236      getpmsg.o        \
237      getppid.o        \
238      getrandom.o      \
239      getrlimit.o     \
240      getuid.o         \
241      gtty.o           \
242      install_utrap.o \
243      ioctl.o          \
244      kaio.o           \
245      kill.o           \
246      llseek.o         \
247      lseek.o          \
248      memcntl.o        \
249      mincore.o        \
250      mmap.o           \
251      mmapobjsys.o    \
252      modctl.o         \
253      mount.o          \
254      mprotect.o       \
255      munmap.o         \
256      nice.o           \
257      ntp_adjtime.o   \
258      ntp_gettime.o   \
259      p_online.o       \

```



```

260 pathconf.o \
261 pause.o \
262 pcsample.o \
263 pipe2.o \
264 pollsys.o \
265 pread.o \
266 preadv.o \
267 priocntlset.o \
268 processor_bind.o \
269 processor_info.o \
270 profil.o \
271 psecflagsset.o \
272 putmsg.o \
273 putpmsg.o \
274 pwrite.o \
275 pwritev.o \
276 read.o \
277 readv.o \
278 resolvepath.o \
279 seteguid.o \
280 setgid.o \
281 setgroups.o \
282 setitimer.o \
283 setreid.o \
284 setrlimit.o \
285 setuid.o \
286 sigaltstk.o \
287 sigprocmsk.o \
288 sigsendset.o \
289 sigsuspend.o \
290 statfs.o \
291 statvfs.o \
292 stty.o \
293 sync.o \
294 sysconfig.o \
295 sysfs.o \
296 sysinfo.o \
297 syslwp.o \
298 times.o \
299 ulimit.o \
300 umask.o \
301 umount2.o \
302 utssys.o \
303 uucopy.o \
304 vhangup.o \
305 waitid.o \
306 write.o \
307 writev.o \
308 yield.o \

310 SYSOBSJ= \
311 __clock_gettime.o \
312 __getcontext.o \
313 __uadmin.o \
314 __lwp_mutex_unlock.o \
315 __stack_grow.o \
316 door.o \
317 forkx.o \
318 forkallx.o \
319 gettimeofday.o \
320 sparc_utrap_install.o \
321 syscall.o \
322 tls_get_addr.o \
323 uadmin.o \
324 umount.o \
325 uname.o \

```

```

326 vforkx.o \

328 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
329 # This macro should ALWAYS be empty; native APIs are already 'large file'.
330 PORTGEN64=

332 # objects from source under $(LIBCDIR)/port
333 PORTFP= \
334 __flt_decim.o \
335 __flt_rounds.o \
336 __tbl_10_b.o \
337 __tbl_10_h.o \
338 __tbl_10_s.o \
339 __tbl_2_b.o \
340 __tbl_2_h.o \
341 __tbl_2_s.o \
342 __tbl_fdq.o \
343 __tbl_tens.o \
344 __x_power.o \
345 __base_sup.o \
346 aconvert.o \
347 decimal_bin.o \
348 double_decim.o \
349 econvert.o \
350 fconvert.o \
351 file_decim.o \
352 finite.o \
353 fp_data.o \
354 func_decim.o \
355 gconvert.o \
356 hex_bin.o \
357 ieee_globals.o \
358 pack_float.o \
359 sigfpe.o \
360 string_decim.o \

362 PORTGEN= \
363 __env_data.o \
364 __xftw.o \
365 a64l.o \
366 abort.o \
367 addsev.o \
368 ascii_strncasecmp.o \
369 assert.o \
370 atexit.o \
371 atfork.o \
372 atof.o \
373 atoi.o \
374 atol.o \
375 atoll.o \
376 attrat.o \
377 attropen.o \
378 basename.o \
379 calloc.o \
380 catgets.o \
381 catopen.o \
382 cfgetispeed.o \
383 cfgetospeed.o \
384 cfree.o \
385 cfsetispeed.o \
386 cfsetospeed.o \
387 cftime.o \
388 clock.o \
389 closedir.o \
390 closefrom.o \
391 confstr.o \

```

```

392      crypt.o           \|
393      csetlen.o         \|
394      ctime.o           \|
395      ctime_r.o        \|
396      daemon.o         \|
397      deflt.o           \|
398      directio.o       \|
399      dirname.o         \|
400      div.o             \|
401      drand48.o         \|
402      dup.o             \|
403      env_data.o       \|
404      err.o             \|
405      errno.o           \|
406      euclen.o          \|
407      event_port.o     \|
408      execvp.o          \|
409      explicit_bzero.o \|
410      fattach.o         \|
411      fdetach.o         \|
412      fdopendir.o      \|
413      ffs.o             \|
414      flock.o           \|
415      fls.o             \|
416      fmtmsg.o         \|
417      freezer.o        \|
418      ftime.o           \|
419      ftok.o            \|
420      fts.o             \|
421      ftw.o             \|
422      gcvt.o            \|
423      get_nprocs.o     \|
424      getauxv.o         \|
425      getcwd.o          \|
426      getdate_err.o    \|
427      getdtblsize.o   \|
428      getentropy.o     \|
429      getenv.o          \|
430      getexecname.o    \|
431      getgrnam.o        \|
432      getgrnam_r.o     \|
433      gethostid.o      \|
434      gethostname.o    \|
435      gethz.o           \|
436      getisax.o         \|
437      getloadavg.o     \|
438      getlogin.o        \|
439      getmntent.o      \|
440      getnetgrent.o    \|
441      getopt.o          \|
442      getopt_long.o    \|
443      getpagesize.o    \|
444      getpw.o           \|
445      getpwnam.o        \|
446      getpwnam_r.o     \|
447      getrusage.o      \|
448      getspent.o        \|
449      getspent_r.o     \|
450      getsubopt.o      \|
451      gettxt.o          \|
452      getusershell.o   \|
453      getut.o           \|
454      getutx.o          \|
455      getvfsent.o       \|
456      getwd.o           \|
457      getwidth.o       \|

```

```

458      getxby_door.o    \|
459      gtxt.o            \|
460      hsearch.o         \|
461      iconv.o           \|
462      imaxabs.o         \|
463      imaxdiv.o         \|
464      index.o           \|
465      initgroups.o     \|
466      insque.o          \|
467      isaexec.o         \|
468      isastream.o      \|
469      isatty.o          \|
470      killpg.o          \|
471      klpdlib.o         \|
472      l64a.o            \|
473      lckpwdf.o        \|
474      lconstants.o     \|
475      ldivide.o         \|
476      lexpl0.o          \|
477      lfind.o           \|
478      lfmt.o            \|
479      lfmt_log.o        \|
480      lldiv.o           \|
481      llog10.o          \|
482      lltostr.o         \|
483      lmath.o           \|
484      localtime.o      \|
485      lsearch.o         \|
486      madvise.o         \|
487      malloc.o          \|
488      memalign.o        \|
489      memmem.o          \|
490      mkdev.o           \|
491      mkdtemp.o         \|
492      mkfifo.o          \|
493      mkstemp.o         \|
494      mktemp.o          \|
495      mlock.o           \|
496      mlockall.o       \|
497      mon.o             \|
498      msync.o           \|
499      munlock.o         \|
500      munlockall.o     \|
501      ndbm.o            \|
502      nftw.o            \|
503      nlspath_checks.o \|
504      nsparse.o         \|
505      nss_common.o      \|
506      nss_dbdefs.o     \|
507      nss_deffinder.o  \|
508      opendir.o         \|
509      opt_data.o        \|
510      perror.o          \|
511      pfmt.o            \|
512      pfmt_data.o       \|
513      pfmt_print.o     \|
514      pipe.o            \|
515      plock.o           \|
516      poll.o            \|
517      posix_fadvise.o   \|
518      posix_fallocate.o \|
519      posix_madvise.o   \|
520      posix_memalign.o  \|
521      priocntl.o        \|
522      priv_str_xlate.o  \|
523      privlib.o         \|

```

```

524 psecflags.o \
525 psiginfo.o \
526 psignal.o \
527 pt.o \
528 putpwent.o \
529 putsptent.o \
530 raise.o \
531 rand.o \
532 random.o \
533 rctlops.o \
534 readdir.o \
535 readdir_r.o \
536 reallocarray.o \
537 reallocarray.o \
538 realpath.o \
539 reboot.o \
540 regexpr.o \
541 remove.o \
542 rewinddir.o \
543 rindex.o \
544 scandir.o \
545 seekdir.o \
546 select.o \
547 setlabel.o \
548 setpriority.o \
549 settimeofday.o \
550 sh_locks.o \
551 sigflag.o \
552 siglist.o \
553 sigsend.o \
554 sigsetops.o \
555 signal.o \
556 stack.o \
557 stpcpy.o \
558 stpncpy.o \
559 str2sig.o \
560 strcase_ormap.o \
561 strcat.o \
562 strchrnul.o \
563 strcspn.o \
564 strdup.o \
565 strerror.o \
566 strlcat.o \
567 strncat.o \
568 strndup.o \
569 strpbrk.o \
570 strrchr.o \
571 strsep.o \
572 strsignal.o \
573 strspn.o \
574 strstr.o \
575 strtod.o \
576 strtointmax.o \
577 strtok.o \
578 strtok_r.o \
579 strtonum.o \
580 strtoumax.o \
581 swab.o \
582 swapctl.o \
583 sysconf.o \
584 syslog.o \
585 tcdrain.o \
586 tcf flow.o \
587 tcf flush.o \
588 tcgetattr.o \
589 tcgetpgrp.o \

```

```

590 tcgetsid.o \
591 tcseendbreak.o \
592 tcsetattr.o \
593 tcsetpgrp.o \
594 tell.o \
595 telldir.o \
596 tfind.o \
597 time_data.o \
598 time_gdata.o \
599 timespec_get.o \
600 tls_data.o \
601 truncate.o \
602 tsdalloc.o \
603 tsearch.o \
604 ttyname.o \
605 ttyslot.o \
606 ualarm.o \
607 ucred.o \
608 valloc.o \
609 vlfmt.o \
610 vpfmt.o \
611 waitpid.o \
612 walkstack.o \
613 wdata.o \
614 xgetwidth.o \
615 xpg4.o \
616 xpg6.o \
618 PORTPRINT_W= \
619 doprnt_w.o \
621 PORTPRINT= \
622 asprintf.o \
623 doprnt.o \
624 fprintf.o \
625 printf.o \
626 snprintf.o \
627 sprintf.o \
628 vfprintf.o \
629 vprintf.o \
630 vsnprintf.o \
631 vsprintf.o \
632 vwprintf.o \
633 wprintf.o \
635 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
636 # This macro should ALWAYS be empty; native APIs are already 'large file'.
637 PORTSTDIO64= \
639 PORTSTDIO_W= \
640 doscan_w.o \
642 PORTSTDIO= \
643 __extensions.o \
644 __endopen.o \
645 __filbuf.o \
646 __findbuf.o \
647 __flsbuf.o \
648 __wrtchk.o \
649 clearerr.o \
650 ctermid.o \
651 ctermid_r.o \
652 cuserid.o \
653 data.o \
654 doscan.o \
655 fdopen.o \

```

```

656 feof.o \
657 ferror.o \
658 fgetc.o \
659 fgets.o \
660 fileno.o \
661 flockf.o \
662 flush.o \
663 fopen.o \
664 fpos.o \
665 fputc.o \
666 fputs.o \
667 fread.o \
668 fseek.o \
669 fseeko.o \
670 ftell.o \
671 ftello.o \
672 fwrite.o \
673 getc.o \
674 getchar.o \
675 getline.o \
676 getpass.o \
677 gets.o \
678 getw.o \
679 popen.o \
680 putc.o \
681 putchar.o \
682 puts.o \
683 putw.o \
684 rewind.o \
685 scanf.o \
686 setbuf.o \
687 setbuffer.o \
688 setvbuf.o \
689 system.o \
690 tempnam.o \
691 tmpfile.o \
692 tmpnam_r.o \
693 ungetc.o \
694 mse.o \
695 vscanf.o \
696 vwscanf.o \
697 wscanf.o \

699 PORTI18N= \
700 getwchar.o \
701 putwchar.o \
702 putws.o \
703 strtows.o \
704 wcsnlen.o \
705 wcstoimax.o \
706 wcstol.o \
707 wcstoul.o \
708 wcsvcs.o \
709 wscat.o \
710 wschr.o \
711 wscmp.o \
712 wscopy.o \
713 wscspn.o \
714 wsdup.o \
715 wslen.o \
716 wscat.o \
717 wscmp.o \
718 wscpy.o \
719 wspbkr.o \
720 wprintf.o \
721 wsrchr.o \

```

```

722 wscanf.o \
723 wssp.o \
724 wstod.o \
725 wstok.o \
726 wstol.o \
727 wstoll.o \
728 wsxfrm.o \
729 wmemchr.o \
730 wmemcmp.o \
731 wmemcpy.o \
732 wmemmove.o \
733 wmemset.o \
734 wcsstr.o \
735 gettext.o \
736 gettext_real.o \
737 gettext_util.o \
738 gettext_gnu.o \
739 plural_parser.o \
740 wdresolve.o \
741 _ctype.o \
742 isascii.o \
743 toascii.o \

745 PORTI18N_COND= \
746 wcstol_longlong.o \
747 wcstoul_longlong.o \

749 PORTLOCALE= \
750 big5.o \
751 btowc.o \
752 collate.o \
753 collcmp.o \
754 euc.o \
755 fnmatch.o \
756 fgetwc.o \
757 fgetws.o \
758 fix_grouping.o \
759 fputwc.o \
760 fputws.o \
761 fwide.o \
762 gb18030.o \
763 gb2312.o \
764 gbk.o \
765 getdate.o \
766 isdigit.o \
767 iswctype.o \
768 ldpart.o \
769 lmessages.o \
770 lnumeric.o \
771 lmonetary.o \
772 localeconv.o \
773 localeimpl.o \
774 mbftowc.o \
775 mblen.o \
776 mbrlen.o \
777 mbrtowc.o \
778 mbsinit.o \
779 mbsnrto wcs.o \
780 mbsrtowcs.o \
781 mbstowcs.o \
782 mbtowc.o \
783 mskanji.o \
784 nextwctype.o \
785 nl_langinfo.o \
786 none.o \
787 rune.o \

```

```

788      runetype.o      \
789      setlocale.o     \
790      setrunelocale.o \
791      strcasecmp.o    \
792      strcasestr.o    \
793      strcoll.o       \
794      strfmon.o       \
795      strftime.o     \
796      strncasecmp.o  \
797      strtptime.o    \
798      strxfrm.o      \
799      table.o         \
800      timelocal.o    \
801      tolower.o      \
802      towlower.o     \
803      ungetwc.o      \
804      utf8.o         \
805      wctomb.o       \
806      wcscasecmp.o   \
807      wcscoll.o      \
808      wcsftime.o     \
809      wcsnrtombs.o   \
810      wcsrtombs.o    \
811      wcstombs.o     \
812      wcswidth.o     \
813      wcsxfrm.o     \
814      wctob.o        \
815      wctomb.o       \
816      wctrans.o     \
817      wctype.o       \
818      wcwidth.o     \
819      wscoll.o       \
\
821 AIOOBS=           \
822      aio.o          \
823      aio_alloc.o   \
824      posix_aio.o   \
\
826 RTOBS=           \
827      clock_timer.o \
828      mqueue.o      \
829      pos4obj.o     \
830      sched.o       \
831      sem.o         \
832      shm.o         \
833      sigev_thread.o \
\
835 SECFLAGSOBS=     \
836      secflags.o    \
\
838 TPOOLOBS=         \
839      thread_pool.o \
\
841 THREADSOBS=      \
842      alloc.o       \
843      assfail.o     \
844      cll_thr.o     \
845      cancel.o      \
846      door_calls.o \
847      tmem.o        \
848      pthr_attr.o   \
849      pthr_barrier.o \
850      pthr_cond.o   \
851      pthr_mutex.o  \
852      pthr_rwlock.o \
853      pthread.o     \

```

```

854      rwlock.o      \
855      scalls.o      \
856      sema.o        \
857      sigaction.o   \
858      spawn.o       \
859      synch.o       \
860      tdb_agent.o   \
861      thr.o         \
862      thread_interface.o \
863      tls.o         \
864      tsd.o         \
\
866 THREADSMACHOBS=  \
867      machdep.o    \
\
869 THREADSASMOBS=   \
870      asm_subr.o   \
\
872 UNICODOBS=       \
873      u8_textprep.o \
874      uconv.o      \
\
876 UNWINDMACHOBS=  \
877      unwind.o     \
\
879 UNWINDASMOBS=   \
880      unwind_frame.o \
\
882 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
883 # This macro should ALWAYS be empty; native APIs are already 'large file'.
884 PORTSYS64=
\
886 PORTSYS=         \
887      _autofssys.o \
888      access.o      \
889      acctctl.o     \
890     bsd_signal.o  \
891      chmod.o       \
892      chown.o       \
893      corectl.o     \
894      eventfd.o     \
895      epoll.o       \
896      exacctsyst.o \
897      execl.o       \
898      execl.o       \
899      execv.o       \
900      fcntl.o       \
901      getpagesizes.o \
902      getpeerucred.o \
903      inst_sync.o   \
904      issetugid.o   \
905      label.o       \
906      link.o        \
907      lockf.o       \
908      lwp.o         \
909      lwp_cond.o    \
910      lwp_rwlock.o  \
911      lwp_sigmask.o \
912      meminfosys.o \
913      mkdir.o       \
914      mknod.o       \
915      msgsys.o      \
916      nfssys.o      \
917      open.o        \
918      prprsys.o     \
919      posix_sigwait.o \

```

```

920      ppriv.o          \
921      psetsys.o       \
922      rctlsys.o       \
923      readlink.o      \
924      rename.o        \
925      sbrk.o          \
926      semsys.o        \
927      set_errno.o     \
928      sharefs.o       \
929      shmsys.o        \
930      sidsys.o        \
931      siginterrupt.o  \
932      signal.o        \
933      signalfd.o      \
934      sigpending.o    \
935      sigstack.o      \
936      stat.o          \
937      symlink.o       \
938      tasksys.o       \
939      time.o          \
940      time_util.o     \
941      timerfd.o       \
942      ucontext.o      \
943      unlink.o        \
944      ustat.o         \
945      utimesys.o     \
946      zone.o          \

948 PORTREGEX=         \
949      glob.o          \
950      regcmp.o        \
951      regcomp.o       \
952      regerror.o     \
953      regex.o         \
954      regexec.o       \
955      regfree.o       \
956      wordexp.o       \

958 VALUES= values-Xa.o

960 MOSTOBSJS=         \
961      $(STRETS)       \
962      $(CRTOBSJS)     \
963      $(DYNBSJS)      \
964      $(FPOBSJS)      \
965      $(FPOBSJS64)    \
966      $(FPASMOBSJS)   \
967      $(ATOMICBSJS)   \
968      $(CHACHAOSBSJS) \
969      $(XATTROBSJS)   \
970      $(COMBSJS)      \
971      $(GENBSJS)      \
972      $(PRFBSJS)      \
973      $(PORTFP)       \
974      $(PORTGEN)      \
975      $(PORTGEN64)    \
976      $(PORTI18N)     \
977      $(PORTI18N_COND) \
978      $(PORTLOCALE)   \
979      $(PORTPRINT)    \
980      $(PORTPRINT_W)  \
981      $(PORTREGEX)    \
982      $(PORTSTDIO)    \
983      $(PORTSTDIO64)  \
984      $(PORTSTDIO_W)  \
985      $(PORTSYS)      \

```

```

986      $(PORTSYS64)    \
987      $(AIOBSJS)      \
988      $(RTOBSJS)      \
989      $(SECFLASOBSJS) \
990      $(TPOOLBSJS)    \
991      $(THREADSOBSJS) \
992      $(THREADSMACHOBSJS) \
993      $(THREADSASMOBSJS) \
994      $(UNICODEBSJS)  \
995      $(UNWINDMACHOBSJS) \
996      $(UNWINDASMOBSJS) \
997      $(COMSYSOBSJS)  \
998      $(SYSOBSJS)     \
999      $(COMSYSOBSJS64) \
1000     $(SYSOBSJS64)    \
1001     $(VALUES)        \

1003 TRACEOBSJS=       \
1004     plockstat.o

1006 # NOTE: libc.so.1 must be linked with the minimal crt1.o and crtn.o
1007 # modules whose source is provided in the $(SRC)/lib/crt directory.
1008 # This must be done because otherwise the Sun C compiler would insert
1009 # its own versions of these modules and those versions contain code
1010 # to call out to C++ initialization functions. Such C++ initialization
1011 # functions can call back into libc before thread initialization is
1012 # complete and this leads to segmentation violations and other problems.
1013 # Since libc contains no C++ code, linking with the minimal crt1.o and
1014 # crtn.o modules is safe and avoids the problems described above.
1015 OBJECTS= $(CRTI) $(MOSTOBSJS) $(CRTN)
1016 CRTSRCS= ../../crt/sparcv9
1017 CRTSRCS= ../../common/sparcv9

1018 # include common library definitions
1019 include $(SRC)/lib/Makefile.lib
1020 include $(SRC)/lib/Makefile.lib.64

1022 # we need to override the default SONAME here because we might
1023 # be building a variant object (still libc.so.1, but different filename)
1024 SONAME = libc.so.1

1026 CFLAGS64 += $(CCVERBOSE)

1028 # This is necessary to avoid problems with calling _ex_unwind().
1029 # We probably don't want any inlining anyway.
1030 CFLAGS64 += -xinline=

1032 CERRWARN += -_gcc=-Wno-parentheses
1033 CERRWARN += -_gcc=-Wno-switch
1034 CERRWARN += -_gcc=-Wno-uninitialized
1035 CERRWARN += -_gcc=-Wno-unused-value
1036 CERRWARN += -_gcc=-Wno-unused-label
1037 CERRWARN += -_gcc=-Wno-unused-variable
1038 CERRWARN += -_gcc=-Wno-type-limits
1039 CERRWARN += -_gcc=-Wno-char-subscripts
1040 CERRWARN += -_gcc=-Wno-clobbered
1041 CERRWARN += -_gcc=-Wno-unused-function
1042 CERRWARN += -_gcc=-Wno-address

1044 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1045 # enables ASSERT() checking in the threads portion of the library.
1046 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1047 THREAD_DEBUG =
1048 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

```

```

1050 # Make string literals read-only to save memory.
1051 CFLAGS64 += $(XSTRCONST)

1053 ALTPICS= $(TRACEOBSJ:%=pics%)

1055 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)

1057 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1059 sparcv9_C_PICFLAGS= -K PIC
1060 CFLAGS64 += $(EXTN_CFLAGS)
1061 CPPFLAGS= -D_REENTRANT -Dsparc $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1062 -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1063 ASFLAGS= $(EXTN_ASFLAGS) -K PIC -P -D__STDC__ -D__ASM -D__sparcv9 $(CPPFLA
1064 $(sparcv9_AS_XARCH)

1066 # As a favor to the dtrace syscall provider, libc still calls the
1067 # old syscall traps that have been obsoleted by the *at() interfaces.
1068 # Delete this to compile libc using only the new *at() system call traps
1069 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1071 # Inform the run-time linker about libc specialized initialization
1072 RTLDINFO = -z rtldinfo=tls_rtldinfo
1073 DYNFLAGS += $(RTLDINFO)

1075 # Force libc's internal references to be resolved immediately upon loading
1076 # in order to avoid critical region problems. Since almost all libc symbols
1077 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1078 DYNFLAGS += -znw

1080 DYNFLAGS += $(EXTN_DYNFLAGS)

1082 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1084 # Override this top level flag so the compiler builds in its native
1085 # C99 mode. This has been enabled to support the complex arithmetic
1086 # added to libc.
1087 C99MODE= $(C99_ENABLE)

1089 # libc method of building an archive
1090 # The "$(GREP) -v ' L '" part is necessary only until
1091 # lorder is fixed to ignore thread-local variables.
1092 BUILD.AR= $(RM) $@ ; \
1093 $(AR) q $@ $(LORDER) $(MOSTOBSJ:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1095 # extra files for the clean target
1096 CLEANFILES= \
1097 $(LIBCDIR)/port/gen/errlst.c \
1098 $(LIBCDIR)/port/gen/new_list.c \
1099 assym.h \
1100 genassym \
1101 pics/crti.o \
1102 pics/crtn.o \
1103 $(ALTPICS)

1105 CLOBBERFILES += $(LIB_PIC)

1107 # list of C source for lint
1108 SRCS= \
1109 $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1110 $(XATTROBJS:%.o=$(SRC)/common/xattr/%.c) \
1111 $(COMOBSJ:%.o=$(SRC)/common/util/%.c) \
1112 $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1113 $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1114 $(PORTI18N:%.o=$(LIBCDIR)/port/il8n/%.c) \
1115 $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \

```

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1116 $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1117 $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1118 $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1119 $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1120 $(AIOOBSJ:%.o=$(LIBCDIR)/port/aio/%.c) \
1121 $(RTOBSJ:%.o=$(LIBCDIR)/port/rt/%.c) \
1122 $(SECFLAGSOBSJ:%.o=$(SRC)/common/secflags/%.c) \
1123 $(TPOOLOBSJ:%.o=$(LIBCDIR)/port/tpool/%.c) \
1124 $(THREADSOBSJ:%.o=$(LIBCDIR)/port/threads/%.c) \
1125 $(THREADSMACHOBSJ:%.o=$(LIBCDIR)/$(MACH)/threads/%.c) \
1126 $(UNICODEOBSJ:%.o=$(SRC)/common/unicode/%.c) \
1127 $(UNWINDMACHOBSJ:%.o=$(LIBCDIR)/port/unwind/%.c) \
1128 $(FPOBSJ:%.o=$(LIBCDIR)/$(MACH)/fp/%.c) \
1129 $(FPOBSJ64:%.o=$(LIBCBASE)/fp/%.c) \
1130 $(LIBCBASE)/crt/_ftou.c \
1131 $(LIBCBASE)/gen/_xregs_clrprtr.c \
1132 $(LIBCBASE)/gen/byteorder.c \
1133 $(LIBCBASE)/gen/endian.c \
1134 $(LIBCBASE)/gen/ecvt.c \
1135 $(LIBCBASE)/gen/getctxt.c \
1136 $(LIBCBASE)/gen/makectxt.c \
1137 $(LIBCBASE)/gen/signfolst.c \
1138 $(LIBCBASE)/gen/siglongjmp.c \
1139 $(LIBCBASE)/gen/swapctxt.c

1141 # conditional assignments
1142 $(DYNLIB) := CRTI = crt.i.o
1143 $(DYNLIB) := CRTN = crtn.o

1145 # Files which need the threads .il inline template
1146 TIL= \
1147 aio.o \
1148 alloc.o \
1149 assfail.o \
1150 atexit.o \
1151 atfork.o \
1152 cancel.o \
1153 door_calls.o \
1154 err.o \
1155 errno.o \
1156 getctxt.o \
1157 lwp.o \
1158 ma.o \
1159 machdep.o \
1160 posix_aio.o \
1161 pthr_attr.o \
1162 pthr_barrier.o \
1163 pthr_cond.o \
1164 pthr_mutex.o \
1165 pthr_rwlock.o \
1166 pthread.o \
1167 rand.o \
1168 rwlock.o \
1169 scalls.o \
1170 sched.o \
1171 sema.o \
1172 sigaction.o \
1173 sigev_thread.o \
1174 spawn.o \
1175 stack.o \
1176 swapctxt.o \
1177 synch.o \
1178 tdb_agent.o \
1179 thr.o \
1180 thread_interface.o \
1181 thread_pool.o \

```

```

1182     tls.o           \
1183     tsd.o           \
1184     unwind.o

1186 $(TIL:%=pics/%) := CFLAGS64 += $(LIBCBASE)/threads/sparcv9.il

1188 # Files in fp, port/fp subdirectories that need base.il inline template
1189 IIL=
1190     __flt_decim.o    \
1191     decimal_bin.o

1193 $(IL:%=pics/%) := CFLAGS64 += $(LIBCBASE)/fp/base.il

1195 # Files in fp subdirectory which need __quad.il inline template
1196 QIL=
1197     __Q_add.o        \
1198     __Q_cmp.o        \
1199     __Q_cmpe.o       \
1200     __Q_div.o        \
1201     __Q_dtoq.o       \
1202     __Q_fcc.o        \
1203     __Q_mul.o        \
1204     __Q_qtod.o       \
1205     __Q_qtoi.o       \
1206     __Q_qtos.o       \
1207     __Q_qtou.o       \
1208     __Q_sqrt.o       \
1209     __Q_stoq.o       \
1210     __Q_sub.o        \
1211     __Qp_qtox.o     \
1212     __Qp_qtoux.o

1214 $(QIL:%=pics/%) := CFLAGS64 += $(LIBCDIR)/$(MACH)/fp/__quad.il
1215 pics/_Qp%.o := CFLAGS64 += -I$(LIBCDIR)/$(MACH)/fp
1216 pics/_Q%.o := sparcv9_COPTFLAG = -x04 -xchip=ultra

1218 # Files in crt subdirectory which need muldiv64.il inline template
1219 #CIL= mul64.o divrem64.o
1220 #$(CIL:%=pics/%) := CFLAGS += $(LIBCBASE)/crt/mul64.il

1222 # large-file-aware components that should be built large

1224 #$(COMSYSOBS64:%=pics/%) := \
1225 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1227 #$(SYSOBS64:%=pics/%) := \
1228 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1230 #$(PORTGEN64:%=pics/%) := \
1231 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1233 #$(PORTSTDIO64:%=pics/%) := \
1234 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1236 #$(PORTSYS64:%=pics/%) := \
1237 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1239 $(PORTSTDIO_W:%=pics/%) := \
1240     CPPFLAGS += -D_WIDE

1242 $(PORTPRINT_W:%=pics/%) := \
1243     CPPFLAGS += -D_WIDE

1245 $(PORTI18N_COND:%=pics/%) := \
1246     CPPFLAGS += -D_WCS_LOGLONG

```

```

1248 pics/arc4random.o := CPPFLAGS += -I$(SRC)/common/crypto/chacha

1250 # Files which need extra optimization
1251 pics/getenv.o := sparcv9_COPTFLAG = -x04

1253 .KEEP_STATE:

1255 all: $(LIBS) $(LIB_PIC)

1257 lint := CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1258 lint := CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1259 lint := LINTFLAGS64 += -mn

1261 lint:
1262     @echo $(LINT.c) ... $(LDLIBS)
1263     @$$(LINT.c) $$(SRCS) $$(LDLIBS)

1265 $(LINTLIB) := SRCS=$(LIBCDIR)/port/llib-1c
1266 $(LINTLIB) := CPPFLAGS += -D_MSE_INT_H
1267 $(LINTLIB) := LINTFLAGS64=-nvx -m64

1269 # object files that depend on inline template
1270 $(TIL:%=pics/%) := $(LIBCBASE)/threads/sparcv9.il
1271 $(IL:%=pics/%) := $(LIBCBASE)/fp/base.il
1272 $(QIL:%=pics/%) := $(LIBCDIR)/$(MACH)/fp/__quad.il
1273 #$(CIL:%=pics/%) := $(LIBCBASE)/crt/muldiv64.il

1275 # include common libc targets
1276 include $(LIBCDIR)/Makefile.targ

1278 # We need to strip out all CTF and DOF data from the static library
1279 $(LIB_PIC) := DIR = pics
1280 $(LIB_PIC): pics $$$(PICS)
1281     $(BUILD.AR)
1282     $(MCS) -d -n .SUNW_ctf $@ > /dev/null 2>&1
1283     $(MCS) -d -n .SUNW_dof $@ > /dev/null 2>&1
1284     $(AR) -ts $@ > /dev/null
1285     $(POST_PROCESS_A)

1287 # special cases
1288 #$(STRETS:%=pics/%) := crt/stret.s
1289 #     $(AS) $(ASFLAGS) -DSTRET$(@F:stret%.o=) crt/stret.s -o $@
1290 #     $(POST_PROCESS_O)

1292 #crt/_rtbootld.s: crt/_rtboot.s crt/_rtld.c
1293 #     $(CC) $(CPPFLAGS) -O -S -K pic crt/_rtld.c -o crt/_rtld.s
1294 #     $(CAT) crt/_rtboot.s crt/_rtld.s > $@
1295 #     $(RM) crt/_rtld.s

1297 ASSYMDEP_OBJS=
1298     __lwp_mutex_unlock.o \
1299     __stack_grow.o \
1300     asm_subr.o \
1301     setjmp.o \
1302     smt_pause.o \
1303     tls_get_addr.o \
1304     unwind_frame.o \
1305     vforkx.o

1307 $(ASSYMDEP_OBJS:%=pics/%) := CPPFLAGS += -I.

1309 $(ASSYMDEP_OBJS:%=pics/%) := assym.h

1311 # assym.h build rules

1313 assym.h := CFLAGS64 += -g

```



```
1315 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c
1317 genassym: $(GENASSYM_C)
1318     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \
1319     $(CPPFLAGS.native) -o $@ $(GENASSYM_C)
1321 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in
1323 assym.h: $(OFFSETS) genassym
1324     $(OFFSETS_CREATE) <$(OFFSETS) >$@
1325     ./genassym >>$@
1327 # derived C source and related explicit dependencies
1328 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1329     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist
1331 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c
```

new/usr/src/lib/libc_db/amd64/Makefile

1

1149 Mon Sep 4 19:56:17 2017

new/usr/src/lib/libc_db/amd64/Makefile

8609 want a position independent CRT

```
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 CRTSRCS= ../../crt/amd64
29 CRTSRCS= ../../common/amd64

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

32 CPPFLAGS += -D_SYSCALL32

34 BUILD.SO= $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(LDLIBS)

36 install: all $(ROOTLIBDIR64) .WAIT $(ROOTLIBS64) $(ROOTLINKS64)
```

new/usr/src/lib/libc_db/i386/Makefile

1

```
*****
1097 Mon Sep  4 19:56:17 2017
new/usr/src/lib/libc_db/i386/Makefile
8609 want a position independent CRT
*****
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 CRTSRCS= ../../crt/i86
29 CRTSRCS= ../../common/i386

29 include ../Makefile.com

31 BUILD.SO= $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(LDLIBS)

33 install: all $(ROOTLIBDIR) .WAIT $(ROOTLIBS) $(ROOTLINKS) $(ROOTLINT)
```

new/usr/src/lib/libc_db/sparc/Makefile

1

```
*****
1101 Mon Sep  4 19:56:18 2017
new/usr/src/lib/libc_db/sparc/Makefile
8609 want a position independent CRT
*****
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
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21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
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25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 CRTSRCS= ../../crt/sparcv7
29 CRTSRCS= ../../common/sparc

29 include ../Makefile.com

31 BUILD.SO= $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(LDLIBS)

33 install: all $(ROOTLIBDIR) .WAIT $(ROOTLIBS) $(ROOTLINKS) $(ROOTLINT)
```

new/usr/src/lib/libc_db/sparcv9/Makefile

1

1151 Mon Sep 4 19:56:18 2017

new/usr/src/lib/libc_db/sparcv9/Makefile

8609 want a position independent CRT

```
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21 #
22 #
23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
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25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 CRTSRCS= ../../crt/sparcv9
29 CRTSRCS= ../../common/sparcv9

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

32 CPPFLAGS += -D_SYSCALL32

34 BUILD.SO= $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(LDLIBS)

36 install: all $(ROOTLIBDIR64) .WAIT $(ROOTLIBS64) $(ROOTLINKS64)
```

```

*****
6690 Mon Sep 4 19:56:18 2017
new/usr/src/lib/libnsl/Makefile.com
8609 want a position independent CRT
*****
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18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 1997, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
25 #
26 LIBRARY= libnsl.a
27 VERS= .1
28
29 #
30 # objects are listed by source directory
31 #
32 # common utility code used in more than one directory
33 COMMON= common.o daemon_utils.o
34
35 DES= des_crypt.o des_soft.o
36
37 DIAL= dial.o
38
39 IPSEC= algs.o
40
41 NETDIR= netdir.o
42
43 NSS= \
44 gethostbyname_r.o gethostent.o gethostent_r.o gethostent6.o gethostby_door.o \
45 getipnodeby_door.o getipnodeby.o getrpercent.o getrpercent_r.o inet_matchaddr.o \
46 inet_pton.o inet_ntop.o netdir_inet.o netdir_inet_sundry.o \
47 parse.o getauthattr.o getprofattr.o getexecattr.o getuserattr.o getauuser.o
48
49 NETSELECT= netselect.o
50
51 NSL= \
52 _conn_util.o _data2.o _errlst.o \
53 _utility.o t_accept.o t_alloc.o t_bind.o t_close.o \
54 t_connect.o t_error.o t_free.o t_getinfo.o t_getname.o \
55 t_getstate.o t_listen.o t_look.o t_open.o t_optmgmt.o \
56 t_rcv.o t_rcvconnect.o t_rcvdis.o t_rcvrel.o t_rcvudata.o \
57 t_rcvuderr.o t_snd.o t_snddis.o t_sndrel.o t_sndudata.o \
58 t_sndv.o t_sndreldata.o t_rcvv.o t_rcvreldata.o t_sysconf.o \
59 t_sndvudata.o t_rcvvudata.o t_sync.o t_unbind.o t_strerror.o \
60 xti_wrappers.o

```

```

62 WRAPPERS= \
63 tli_wrappers.o
64
65 RPC= \
66 auth_des.o auth_none.o auth_sys.o auth_time.o authdes_prot.o \
67 authsys_prot.o can_use_af.o \
68 clnt_bcast.o clnt_dg.o clnt_door.o clnt_generic.o clnt_perror.o \
69 clnt_raw.o clnt_simple.o clnt_vc.o fdsync.o getdname.o \
70 inet_ntoa.o key_call.o key_prot.o mt_misc.o \
71 netname.o netnamer.o pmap_clnt.o pmap_prot.o \
72 rpc_callmsg.o rpc_comdata.o rpc_generic.o rpc_prot.o rpc_sel2poll.o \
73 rpc_soc.o rpc_td.o rpcb_clnt.o rpcb_prot.o \
74 rpcb_st_xdr.o rpcdname.o rpcsec_gss_if.o rtime_tli.o svc.o \
75 svc_auth.o svc_auth_loopb.o svc_auth_sys.o svc_dg.o \
76 svc_door.o svc_generic.o svc_raw.o svc_run.o svc_simple.o \
77 svc_vc.o svcauth_des.o svid_funcs.o ti_opts.o xdr.o \
78 xdr_array.o xdr_float.o xdr_mem.o xdr_rec.o xdr_refer.o \
79 xdr_sizeof.o xdr_stdio.o
80
81 SAF= checkver.o doconfig.o
82
83 YP= \
84 dbm.o yp_all.o yp_b_clnt.o yp_b_xdr.o yp_bind.o \
85 yp_enum.o yp_master.o yp_match.o yp_order.o yp_update.o \
86 yperr_string.o yp_xdr.o ypprot_err.o yppudp.o \
87 yp_rsvd.o \
88 yppasswd_xdr.o
89
90 NIS_GEN= \
91 nis_xdr.o nis_subr.o nis_misc.o \
92 nis_misc_proc.o nis_sec_mechs.o
93
94
95 NIS= $(NIS_GEN)
96
97 KEY= publickey.o xcrypt.o gen_dhkeys.o
98
99 OBJECTS= $(COMMON) $(DES) $(DIAL) $(IPSEC) $(NETDIR) $(NSS) $(NETSELECT) \
100 $(NSL) $(WRAPPERS) $(RPC) $(SAF) $(YP) $(NIS) $(KEY)
101
102 # libnsl build rules
103 pics/%.o: ../common/%.c
104 $(COMPILE.c) -o $@ $<
105 $(POST_PROCESS_O)
106
107 pics/%.o: ../des/%.c
108 $(COMPILE.c) -o $@ $<
109 $(POST_PROCESS_O)
110
111 pics/%.o: ../dial/%.c
112 $(COMPILE.c) -o $@ $<
113 $(POST_PROCESS_O)
114
115 pics/%.o: ../ipsec/%.c
116 $(COMPILE.c) -o $@ $<
117 $(POST_PROCESS_O)
118
119 pics/%.o: ../netdir/%.c
120 $(COMPILE.c) -o $@ $<
121 $(POST_PROCESS_O)
122
123 pics/%.o: ../nss/%.c
124 $(COMPILE.c) -o $@ $<
125 $(POST_PROCESS_O)
126
127 pics/%.o: ../netselect/%.c

```

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

3

```

128      $(COMPILE.c) -o $@ $<
129      $(POST_PROCESS_O)

131 pics/%.o: ../nsl/%.c
132      $(COMPILE.c) -o $@ $<
133      $(POST_PROCESS_O)

135 pics/%.o: ../rpc/%.c
136      $(COMPILE.c) -DPORTMAP -DNIS -o $@ $<
137      $(POST_PROCESS_O)

139 pics/%.o: ../saf/%.c
140      $(COMPILE.c) -o $@ $<
141      $(POST_PROCESS_O)

143 pics/%.o: ../yp/%.c
144      $(COMPILE.c) -o $@ $<
145      $(POST_PROCESS_O)

147 pics/%.o: ../key/%.c
148      $(COMPILE.c) -o $@ $<
149      $(POST_PROCESS_O)

151 pics/%.o: ../nis/gen/%.c ../nis/gen/nis_clnt.h
152      $(COMPILE.c) -o $@ $<
153      $(POST_PROCESS_O)

156 pics/%.o: ../nis/gen/nis_clnt.h
157      $(COMPILE.c) -o $@ $<
158      $(POST_PROCESS_O)

160 # include library definitions
161 include ../../Makefile.lib

163 # install this library in the root filesystem
164 include ../../Makefile.rootfs

166 LIBS =          $(DYNLIB) $(LINTLIB)

168 SRCDIR=         ../common

170 # Override the position-independent code generation flags.
171 #
172 # These files are particularly rich with references to global things.
173 # Ordering is by number of got references per file of files that have
174 # non-performance sensitive code in them.
175 #
176 # If you need to add more files and the GOT overflows with "pic" items,
177 # then use the environment variable LD_OPTIONS=-Dgot,detail to have the
178 # linker print out the list of GOT hogs..

180 GOTHOGS =       dial.o print_obj.o clnt_perror.o nsl_stdio_prv.o netdir.o \
181                 algs.o netselect.o
182 BIGPICS =       $(GOTHOGS:%=pics/%)
183 $(BIGPICS) :=   sparc_C_PICFLAGS = $(C_BIGPICFLAGS)
184 $(BIGPICS) :=   i386_C_PICFLAGS = $(C_BIGPICFLAGS)

186 # Compile C++ code without exceptions to avoid a dependence on libc.
187 NOEXCEPTIONS= -noex
188 CFLAGS += $(NOEXCEPTIONS)
189 CFLAGS64 += $(NOEXCEPTIONS)

191 CPPFLAGS +=     -I$(SRC)/lib/libnsl/include -D_REENTRANT
191 CPPFLAGS +=     -I$(SRC)/lib/common/inc -I$(SRC)/lib/libnsl/include -D_REENTRANT
192 CPPFLAGS +=     -I$(SRC)/lib/libnsl/dial

```

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

4

```

194 CFLAGS +=      $(CVERBOSE)

196 # Make string literals read-only to save memory.
197 CFLAGS +=      $(XSTRCONST)
198 CFLAGS64 +=    $(XSTRCONST)
199 CCFLAGS +=     -_CC=features=conststrings
200 CCFLAGS64 +=   -_CC=features=conststrings

202 CERRWARN +=    -_gcc=-Wno-char-subscripts
203 CERRWARN +=    -_gcc=-Wno-parentheses
204 CERRWARN +=    -_gcc=-Wno-uninitialized
205 CERRWARN +=    -_gcc=-Wno-switch
206 CERRWARN +=    -_gcc=-Wno-char-subscripts
207 CERRWARN +=    -_gcc=-Wno-empty-body
208 CERRWARN +=    -_gcc=-Wno-unused-variable
209 CERRWARN +=    -_gcc=-Wno-clobbered

211 LIBMP =        -lmp
212 lint :=        LIBMP =
213 LDLIBS +=      $(LIBMP) -lmd -lc
214 DYNFLAGS +=    $(ZNODELETE)

216 $(LINTLIB) :=  SRCS=$(SRCDIR)/$(LINTSRC)
217 LINTFLAGS +=   -m -DPORTMAP
218 LINTFLAGS64 += -m -DPORTMAP

220 .KEEP_STATE:

222 all: $(LIBS)

224 # Don't lint WRAPPERS as they are explicitly unclean
225 SRCS=          $(DES:%.o=../des/%.c) \
226                $(DIAL:%.o=../dial/%.c) \
227                $(IPSEC:%.o=../ipsec/%.c) \
228                $(NETDIR:%.o=../netdir/%.c) \
229                $(NSS:%.o=../nss/%.c) \
230                $(NETSELECT:%.o=../netselect/%.c) \
231                $(NSL:%.o=../nsl/%.c) \
232                $(RPC:%.o=../rpc/%.c) \
233                $(SAF:%.o=../saf/%.c) \
234                $(YP:%.o=../yp/%.c) \
235                $(NIS_GEN:%.o=../nis/gen/%.c) \
236                $(COMMON:%.o=../common/%.c)

238 lint:
239      @$ (LINT.c) $(SRCS) $(LDLIBS)

241 # include library targets
242 include ../../Makefile.targ

```

new/usr/src/lib/req.flg

1

1198 Mon Sep 4 19:56:19 2017

new/usr/src/lib/req.flg

8609 want a position independent CRT

```
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21 #
22 #
23 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
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25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

27 echo_file usr/src/lib/Makefile.lib
28 echo_file usr/src/lib/Makefile.targ
29 echo_file usr/src/lib/Makefile.mach
30 echo_file usr/src/lib/Makefile.lib.64
31 echo_file usr/src/lib/Makefile.rootfs
32 find_files "s.*" usr/src/lib/crt
34 find_files "s.*" usr/src/lib/common
33 find_files "s.*" usr/src/common/mapfiles
34 exec_file usr/src/cmd/req.flg
```


new/usr/src/pkg/manifests/developer-library-lint.mf

1

```
*****
23119 Mon Sep  4 19:56:19 2017
new/usr/src/pkg/manifests/developer-library-lint.mf
8609 want a position independent CRT
*****
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21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2012 OmniTI Computer Consulting, Inc. All rights reserved.
25 # Copyright 2014 Nexenta Systems, Inc. All rights reserved.
26 #
27 #
28 set name=pkg.fmri value=pkg:/developer/library/lint@$(PKGVERS)
29 set name=pkg.description value="lint libraries for software development"
29 set name=pkg.description \
30   value="lint libraries and startup objects for software development"
30 set name=pkg.summary value="Lint Libraries"
31 set name=info.classification value=org.opensolaris.category.2008:Development/C
32 set name=variant.arch value=$(ARCH)
33 dir path=lib
34 dir path=lib/$(ARCH64)
35 dir path=usr group=sys
36 dir path=usr/ccs
37 dir path=usr/ccs/lib
38 dir path=usr/ccs/lib/$(ARCH64)
39 dir path=usr/lib
40 dir path=usr/lib/$(ARCH64)
41 dir path=usr/lib/scsi
42 dir path=usr/lib/scsi/$(ARCH64)
43 dir path=usr/xpg4
44 dir path=usr/xpg4/lib
45 dir path=usr/xpg4/lib/$(ARCH64)
46 file path=lib/$(ARCH64)/llib-ladm.ln
47 file path=lib/$(ARCH64)/llib-laio.ln
48 file path=lib/$(ARCH64)/llib-lavl.ln
49 file path=lib/$(ARCH64)/llib-lbsm.ln
50 file path=lib/$(ARCH64)/llib-lc.ln
51 file path=lib/$(ARCH64)/llib-lc_db.ln
52 file path=lib/$(ARCH64)/llib-lcontract.ln
53 file path=lib/$(ARCH64)/llib-lcryptoutil.ln
54 file path=lib/$(ARCH64)/llib-lctf.ln
55 file path=lib/$(ARCH64)/llib-lcurses.ln
56 file path=lib/$(ARCH64)/llib-ldevice.ln
57 file path=lib/$(ARCH64)/llib-ldeviceid.ln
58 file path=lib/$(ARCH64)/llib-ldevinfo.ln
59 file path=lib/$(ARCH64)/llib-ldl.ln
```

new/usr/src/pkg/manifests/developer-library-lint.mf

2

```
60 file path=lib/$(ARCH64)/llib-ldladm.ln
61 file path=lib/$(ARCH64)/llib-ldlpi.ln
62 file path=lib/$(ARCH64)/llib-ldoor.ln
63 file path=lib/$(ARCH64)/llib-lefi.ln
64 file path=lib/$(ARCH64)/llib-lelf.ln
65 $(i386_ONLY)file path=lib/$(ARCH64)/llib-lfdisk.ln
66 file path=lib/$(ARCH64)/llib-lgen.ln
67 file path=lib/$(ARCH64)/llib-lintl.ln
68 file path=lib/$(ARCH64)/llib-lkmf.ln
69 file path=lib/$(ARCH64)/llib-lkmfberder.ln
70 file path=lib/$(ARCH64)/llib-lkstat.ln
71 file path=lib/$(ARCH64)/llib-lmd.ln
72 file path=lib/$(ARCH64)/llib-lmd5.ln
73 file path=lib/$(ARCH64)/llib-lnsl.ln
74 file path=lib/$(ARCH64)/llib-lnvpair.ln
75 file path=lib/$(ARCH64)/llib-lofmt.ln
76 file path=lib/$(ARCH64)/llib-lpam.ln
77 file path=lib/$(ARCH64)/llib-lproc.ln
78 file path=lib/$(ARCH64)/llib-lpthread.ln
79 file path=lib/$(ARCH64)/llib-lrcm.ln
80 file path=lib/$(ARCH64)/llib-lresolv.ln
81 file path=lib/$(ARCH64)/llib-lrpcsvc.ln
82 file path=lib/$(ARCH64)/llib-lrt.ln
83 file path=lib/$(ARCH64)/llib-lrtld_db.ln
84 file path=lib/$(ARCH64)/llib-lscf.ln
85 file path=lib/$(ARCH64)/llib-lsec.ln
86 file path=lib/$(ARCH64)/llib-lsecdb.ln
87 file path=lib/$(ARCH64)/llib-lsendfile.ln
88 file path=lib/$(ARCH64)/llib-lsocket.ln
89 file path=lib/$(ARCH64)/llib-lsysevent.ln
90 file path=lib/$(ARCH64)/llib-ltermcap.ln
91 file path=lib/$(ARCH64)/llib-lthread.ln
92 file path=lib/$(ARCH64)/llib-ltsnet.ln
93 file path=lib/$(ARCH64)/llib-ltsol.ln
94 file path=lib/$(ARCH64)/llib-lumem.ln
95 file path=lib/$(ARCH64)/llib-luuid.ln
96 $(i386_ONLY)file path=lib/$(ARCH64)/llib-luutil.ln
97 file path=lib/$(ARCH64)/llib-lxnet.ln
98 file path=lib/llib-ladm
99 file path=lib/llib-ladm.ln
100 file path=lib/llib-laio
101 file path=lib/llib-laio.ln
102 file path=lib/llib-lavl
103 file path=lib/llib-lavl.ln
104 file path=lib/llib-lbsm
105 file path=lib/llib-lbsm.ln
106 file path=lib/llib-lc
107 file path=lib/llib-lc.ln
108 file path=lib/llib-lc_db
109 file path=lib/llib-lc_db.ln
110 file path=lib/llib-lcontract
111 file path=lib/llib-lcontract.ln
112 file path=lib/llib-lcryptoutil
113 file path=lib/llib-lcryptoutil.ln
114 file path=lib/llib-lctf
115 file path=lib/llib-lctf.ln
116 file path=lib/llib-lcurses
117 file path=lib/llib-lcurses.ln
118 file path=lib/llib-ldevice
119 file path=lib/llib-ldevice.ln
120 file path=lib/llib-ldeviceid
121 file path=lib/llib-ldeviceid.ln
122 file path=lib/llib-ldevinfo
123 file path=lib/llib-ldevinfo.ln
124 file path=lib/llib-ldl
125 file path=lib/llib-ldl.ln
```

```

126 file path=lib/llib-ldladm
127 file path=lib/llib-ldladm.ln
128 file path=lib/llib-ldlpi
129 file path=lib/llib-ldlpi.ln
130 file path=lib/llib-ldoor
131 file path=lib/llib-ldoor.ln
132 file path=lib/llib-lefi
133 file path=lib/llib-lefi.ln
134 file path=lib/llib-lelf
135 file path=lib/llib-lelf.ln
136 $(i386_ONLY)file path=lib/llib-lfdisk
137 $(i386_ONLY)file path=lib/llib-lfdisk.ln
138 file path=lib/llib-lgen
139 file path=lib/llib-lgen.ln
140 file path=lib/llib-lintl
141 file path=lib/llib-lintl.ln
142 file path=lib/llib-lipmp
143 file path=lib/llib-lipmp.ln
144 file path=lib/llib-lkmf.ln
145 file path=lib/llib-lkmfborder.ln
146 file path=lib/llib-lkstat
147 file path=lib/llib-lkstat.ln
148 file path=lib/llib-lmd
149 file path=lib/llib-lmd.ln
150 file path=lib/llib-lmd5
151 file path=lib/llib-lmd5.ln
152 file path=lib/llib-lnsl
153 file path=lib/llib-lnsl.ln
154 file path=lib/llib-lnvpair
155 file path=lib/llib-lnvpair.ln
156 file path=lib/llib-lnwam
157 file path=lib/llib-lnwam.ln
158 file path=lib/llib-lofmt
159 file path=lib/llib-lofmt.ln
160 file path=lib/llib-lpam
161 file path=lib/llib-lpam.ln
162 file path=lib/llib-lproc
163 file path=lib/llib-lproc.ln
164 file path=lib/llib-lpthread
165 file path=lib/llib-lpthread.ln
166 file path=lib/llib-lrcm
167 file path=lib/llib-lrcm.ln
168 file path=lib/llib-lresolv
169 file path=lib/llib-lresolv.ln
170 file path=lib/llib-lrpcsvc
171 file path=lib/llib-lrpcsvc.ln
172 file path=lib/llib-lrt
173 file path=lib/llib-lrt.ln
174 file path=lib/llib-lrtld_db
175 file path=lib/llib-lrtld_db.ln
176 file path=lib/llib-lscf
177 file path=lib/llib-lscf.ln
178 file path=lib/llib-lsec
179 file path=lib/llib-lsec.ln
180 file path=lib/llib-lsecdb
181 file path=lib/llib-lsecdb.ln
182 file path=lib/llib-lsendfile
183 file path=lib/llib-lsendfile.ln
184 file path=lib/llib-lsocket
185 file path=lib/llib-lsocket.ln
186 file path=lib/llib-lsysevent
187 file path=lib/llib-lsysevent.ln
188 file path=lib/llib-ltermcap
189 file path=lib/llib-ltermcap.ln
190 file path=lib/llib-lthread
191 file path=lib/llib-lthread.ln

```

```

192 file path=lib/llib-ltsnet
193 file path=lib/llib-ltsnet.ln
194 file path=lib/llib-ltsol
195 file path=lib/llib-ltsol.ln
196 file path=lib/llib-lumem
197 file path=lib/llib-lumem.ln
198 file path=lib/llib-luuid
199 file path=lib/llib-luuid.ln
200 file path=lib/llib-lxnet
201 file path=lib/llib-lxnet.ln
203 $(i386_ONLY)file path=usr/lib/$(ARCH64)/crt1.o
204 file path=usr/lib/$(ARCH64)/crti.o
205 file path=usr/lib/$(ARCH64)/crtn.o
206 $(i386_ONLY)file path=usr/lib/$(ARCH64)/gcrt1.o
202 file path=usr/lib/$(ARCH64)/llib-lads.ln
203 file path=usr/lib/$(ARCH64)/llib-ladutils.ln
204 file path=usr/lib/$(ARCH64)/llib-lbsdmalloc.ln
205 file path=usr/lib/$(ARCH64)/llib-lcfgadm.ln
206 file path=usr/lib/$(ARCH64)/llib-lcommutil.ln
207 file path=usr/lib/$(ARCH64)/llib-lcrypt.ln
208 file path=usr/lib/$(ARCH64)/llib-lexacct.ln
209 file path=usr/lib/$(ARCH64)/llib-lform.ln
210 file path=usr/lib/$(ARCH64)/llib-lfstyp.ln
211 file path=usr/lib/$(ARCH64)/llib-lgss.ln
212 file path=usr/lib/$(ARCH64)/llib-lhotplug.ln
213 file path=usr/lib/$(ARCH64)/llib-lidmap.ln
214 file path=usr/lib/$(ARCH64)/llib-lipmi.ln
215 file path=usr/lib/$(ARCH64)/llib-lipp.ln
216 file path=usr/lib/$(ARCH64)/llib-lkvm.ln
217 file path=usr/lib/$(ARCH64)/llib-lldap.ln
218 file path=usr/lib/$(ARCH64)/llib-llgrp.ln
219 file path=usr/lib/$(ARCH64)/llib-lmail.ln
220 file path=usr/lib/$(ARCH64)/llib-lmalloc.ln
221 file path=usr/lib/$(ARCH64)/llib-lmapmalloc.ln
222 file path=usr/lib/$(ARCH64)/llib-lmenu.ln
223 file path=usr/lib/$(ARCH64)/llib-lmtmalloc.ln
224 file path=usr/lib/$(ARCH64)/llib-lnls.ln
225 file path=usr/lib/$(ARCH64)/llib-lpanel.ln
226 file path=usr/lib/$(ARCH64)/llib-lpasswdutil.ln
227 file path=usr/lib/$(ARCH64)/llib-lpkcs11.ln
228 file path=usr/lib/$(ARCH64)/llib-lproject.ln
229 file path=usr/lib/$(ARCH64)/llib-lreparse.ln
230 file path=usr/lib/$(ARCH64)/llib-lsas1.ln
231 file path=usr/lib/$(ARCH64)/llib-lsched.ln
232 file path=usr/lib/$(ARCH64)/llib-lsctp.ln
233 file path=usr/lib/$(ARCH64)/llib-lshare.ln
234 file path=usr/lib/$(ARCH64)/llib-lsip.ln
235 file path=usr/lib/$(ARCH64)/llib-lsldap.ln
236 file path=usr/lib/$(ARCH64)/llib-lsmbios.ln
237 $(sparc_ONLY)file path=usr/lib/$(ARCH64)/llib-lv12n.ln
238 file path=usr/lib/$(ARCH64)/llib-lvolmgt.ln
239 file path=usr/lib/$(ARCH64)/llib-lwrap.ln
240 file path=usr/lib/$(ARCH64)/llib-lzoneinfo.ln
246 file path=usr/lib/$(ARCH64)/values-Xa.o
247 file path=usr/lib/$(ARCH64)/values-Xc.o
248 file path=usr/lib/$(ARCH64)/values-Xs.o
249 file path=usr/lib/$(ARCH64)/values-Xt.o
250 file path=usr/lib/$(ARCH64)/values-xpg4.o
251 file path=usr/lib/$(ARCH64)/values-xpg6.o
252 $(i386_ONLY)file path=usr/lib/crt1.o
253 file path=usr/lib/crti.o
254 file path=usr/lib/crtn.o
255 $(i386_ONLY)file path=usr/lib/gcrt1.o
241 file path=usr/lib/llib-lads
242 file path=usr/lib/llib-lads.ln
243 file path=usr/lib/llib-ladutils

```

```

244 file path=usr/lib/llib-ladutils.ln
245 file path=usr/lib/llib-lbsdmalloc
246 file path=usr/lib/llib-lbsdmalloc.ln
247 file path=usr/lib/llib-lcfgadm
248 file path=usr/lib/llib-lcfgadm.ln
249 file path=usr/lib/llib-lcommputil
250 file path=usr/lib/llib-lcommputil.ln
251 file path=usr/lib/llib-lcrypt
252 file path=usr/lib/llib-lcrypt.ln
253 file path=usr/lib/llib-lexacct
254 file path=usr/lib/llib-lexacct.ln
255 file path=usr/lib/llib-lform
256 file path=usr/lib/llib-lform.ln
257 file path=usr/lib/llib-lfstyp
258 file path=usr/lib/llib-lfstyp.ln
259 file path=usr/lib/llib-lgss
260 file path=usr/lib/llib-lgss.ln
261 file path=usr/lib/llib-lhotplug
262 file path=usr/lib/llib-lhotplug.ln
263 file path=usr/lib/llib-lidmap
264 file path=usr/lib/llib-lidmap.ln
265 file path=usr/lib/llib-lipmi
266 file path=usr/lib/llib-lipmi.ln
267 file path=usr/lib/llib-lipp
268 file path=usr/lib/llib-lipp.ln
269 file path=usr/lib/llib-lkvm
270 file path=usr/lib/llib-lkvm.ln
271 file path=usr/lib/llib-lldap
272 file path=usr/lib/llib-lldap.ln
273 file path=usr/lib/llib-llgrp
274 file path=usr/lib/llib-llgrp.ln
275 file path=usr/lib/llib-lmail
276 file path=usr/lib/llib-lmail.ln
277 file path=usr/lib/llib-lmalloc
278 file path=usr/lib/llib-lmalloc.ln
279 file path=usr/lib/llib-lmapmalloc
280 file path=usr/lib/llib-lmapmalloc.ln
281 file path=usr/lib/llib-lmenu
282 file path=usr/lib/llib-lmenu.ln
283 file path=usr/lib/llib-lmtmalloc.ln
284 file path=usr/lib/llib-lnls
285 file path=usr/lib/llib-lnls.ln
286 file path=usr/lib/llib-lpanel
287 file path=usr/lib/llib-lpanel.ln
288 file path=usr/lib/llib-lpasswdutil
289 file path=usr/lib/llib-lpasswdutil.ln
290 file path=usr/lib/llib-lpkcs11
291 file path=usr/lib/llib-lpkcs11.ln
292 file path=usr/lib/llib-lproject
293 file path=usr/lib/llib-lproject.ln
294 file path=usr/lib/llib-lreparse
295 file path=usr/lib/llib-lreparse.ln
296 file path=usr/lib/llib-lsas1
297 file path=usr/lib/llib-lsas1.ln
298 file path=usr/lib/llib-lsched
299 file path=usr/lib/llib-lsched.ln
300 file path=usr/lib/llib-lsctp
301 file path=usr/lib/llib-lsctp.ln
302 file path=usr/lib/llib-lshare
303 file path=usr/lib/llib-lshare.ln
304 file path=usr/lib/llib-lsip
305 file path=usr/lib/llib-lsip.ln
306 file path=usr/lib/llib-lsldap
307 file path=usr/lib/llib-lsldap.ln
308 file path=usr/lib/llib-lsmbios
309 file path=usr/lib/llib-lsmbios.ln

```

```

310 $(sparc_ONLY)file path=usr/lib/llib-lv12n
311 $(sparc_ONLY)file path=usr/lib/llib-lv12n.ln
312 file path=usr/lib/llib-lvolmgt
313 file path=usr/lib/llib-lvolmgt.ln
314 file path=usr/lib/llib-lwrap
315 file path=usr/lib/llib-lwrap.ln
316 file path=usr/lib/llib-lzoneinfo
317 file path=usr/lib/llib-lzoneinfo.ln
318 file path=usr/lib/scsi/$(ARCH64)/llib-lscsi.ln
319 file path=usr/lib/scsi/$(ARCH64)/llib-lses.ln
320 file path=usr/lib/scsi/$(ARCH64)/llib-lsmp.ln
321 file path=usr/lib/scsi/llib-lscsi
322 file path=usr/lib/scsi/llib-lscsi.ln
323 file path=usr/lib/scsi/llib-lses
324 file path=usr/lib/scsi/llib-lses.ln
325 file path=usr/lib/scsi/llib-lsmp
326 file path=usr/lib/scsi/llib-lsmp.ln
327 file path=usr/lib/values-Xa.o
328 file path=usr/xpg4/lib/$(ARCH64)/llib-lcurses.ln
329 file path=usr/xpg4/lib/llib-lcurses
330 legacy pkg=SUNWarc \
331   desc="lint libraries and startup objects for software development" \
332   name="Lint Libraries (usr)"
333 legacy pkg=SUNWarc desc="lint libraries for software development" \
334   name="Lint Libraries (root)"
335 license cr_Sun license=cr_Sun
336 license lic_CDDL license=lic_CDDL
337 link path=lib/$(ARCH64)/llib-lposix4.ln target=./llib-lrt.ln
338 link path=lib/$(ARCH64)/llib-ltermplib.ln target=./llib-lcurses.ln
339 link path=lib/llib-lposix4 target=./llib-lrt
340 link path=lib/llib-lposix4.ln target=./llib-lrt.ln
341 link path=lib/llib-ltermplib target=./llib-lcurses
342 link path=lib/llib-ltermplib.ln target=./llib-lcurses.ln
343 link path=usr/ccs/lib/$(ARCH64)/llib-lcurses.ln \
344   target=./../../lib/$(ARCH64)/llib-lcurses.ln
345 link path=usr/ccs/lib/$(ARCH64)/llib-lform.ln \
346   target=./../../lib/$(ARCH64)/llib-lform.ln
347 link path=usr/ccs/lib/$(ARCH64)/llib-lgen.ln \
348   target=./../../lib/$(ARCH64)/llib-lgen.ln
349 link path=usr/ccs/lib/$(ARCH64)/llib-ll.ln \
350   target=./../../lib/$(ARCH64)/llib-ll.ln
351 link path=usr/ccs/lib/$(ARCH64)/llib-lmenu.ln \
352   target=./../../lib/$(ARCH64)/llib-lmenu.ln
353 link path=usr/ccs/lib/$(ARCH64)/llib-lpanel.ln \
354   target=./../../lib/$(ARCH64)/llib-lpanel.ln
355 link path=usr/ccs/lib/$(ARCH64)/llib-ltermcap.ln \
356   target=./../../lib/$(ARCH64)/llib-ltermcap.ln
357 link path=usr/ccs/lib/$(ARCH64)/llib-ltermplib.ln \
358   target=./../../lib/$(ARCH64)/llib-lcurses.ln
359 link path=usr/ccs/lib/$(ARCH64)/llib-ly.ln \
360   target=./../../lib/$(ARCH64)/llib-ly.ln
361 link path=usr/ccs/lib/$(ARCH64)/values-Xa.o \
362   target=./../../lib/$(ARCH64)/values-Xa.o
363 link path=usr/ccs/lib/$(ARCH64)/values-Xc.o \
364   target=./../../lib/$(ARCH64)/values-Xc.o
365 link path=usr/ccs/lib/$(ARCH64)/values-Xs.o \
366   target=./../../lib/$(ARCH64)/values-Xs.o
367 link path=usr/ccs/lib/$(ARCH64)/values-Xt.o \
368   target=./../../lib/$(ARCH64)/values-Xt.o
369 link path=usr/ccs/lib/$(ARCH64)/values-xpg4.o \

```

```

391 target=../../../../lib/$(ARCH64)/values-xpg4.o
392 link path=usr/ccs/lib/$(ARCH64)/values-xpg6.o \
393 target=../../../../lib/$(ARCH64)/values-xpg6.o
361 link path=usr/ccs/lib/llib-lcurses target=../../../../lib/llib-lcurses
362 link path=usr/ccs/lib/llib-lcurses.ln target=../../../../lib/llib-lcurses.ln
363 link path=usr/ccs/lib/llib-lform target=../../../../lib/llib-lform
364 link path=usr/ccs/lib/llib-lform.ln target=../../../../lib/llib-lform.ln
365 link path=usr/ccs/lib/llib-lgen target=../../../../lib/llib-lgen
366 link path=usr/ccs/lib/llib-lgen.ln target=../../../../lib/llib-lgen.ln
367 link path=usr/ccs/lib/llib-lmenu target=../../../../lib/llib-lmenu
368 link path=usr/ccs/lib/llib-lmenu.ln target=../../../../lib/llib-lmenu.ln
369 link path=usr/ccs/lib/llib-lpanel target=../../../../lib/llib-lpanel
370 link path=usr/ccs/lib/llib-lpanel.ln target=../../../../lib/llib-lpanel.ln
371 link path=usr/ccs/lib/llib-ltermcap target=../../../../lib/llib-ltermcap
372 link path=usr/ccs/lib/llib-ltermcap.ln target=../../../../lib/llib-ltermcap.ln
373 link path=usr/ccs/lib/llib-ltermplib target=../../../../lib/llib-lcurses
374 link path=usr/ccs/lib/llib-ltermplib.ln target=../../../../lib/llib-lcurses.ln
408 link path=usr/ccs/lib/values-Xa.o target=../../../../lib/values-Xa.o
409 link path=usr/ccs/lib/values-Xc.o target=../../../../lib/values-Xc.o
410 link path=usr/ccs/lib/values-Xs.o target=../../../../lib/values-Xs.o
411 link path=usr/ccs/lib/values-Xt.o target=../../../../lib/values-Xt.o
412 link path=usr/ccs/lib/values-xpg4.o target=../../../../lib/values-xpg4.o
413 link path=usr/ccs/lib/values-xpg6.o target=../../../../lib/values-xpg6.o
375 link path=usr/lib/$(ARCH64)/llib-ladm.ln \
376 target=../../../../lib/$(ARCH64)/llib-ladm.ln
377 link path=usr/lib/$(ARCH64)/llib-laio.ln \
378 target=../../../../lib/$(ARCH64)/llib-laio.ln
379 link path=usr/lib/$(ARCH64)/llib-lavl.ln \
380 target=../../../../lib/$(ARCH64)/llib-lavl.ln
381 link path=usr/lib/$(ARCH64)/llib-lbsm.ln \
382 target=../../../../lib/$(ARCH64)/llib-lbsm.ln
383 link path=usr/lib/$(ARCH64)/llib-lc.ln \
384 target=../../../../lib/$(ARCH64)/llib-lc.ln
385 link path=usr/lib/$(ARCH64)/llib-lcontract.ln \
386 target=../../../../lib/$(ARCH64)/llib-lcontract.ln
387 link path=usr/lib/$(ARCH64)/llib-lctf.ln \
388 target=../../../../lib/$(ARCH64)/llib-lctf.ln
389 link path=usr/lib/$(ARCH64)/llib-lcurses.ln \
390 target=../../../../lib/$(ARCH64)/llib-lcurses.ln
391 link path=usr/lib/$(ARCH64)/llib-ldevice.ln \
392 target=../../../../lib/$(ARCH64)/llib-ldevice.ln
393 link path=usr/lib/$(ARCH64)/llib-ldevid.ln \
394 target=../../../../lib/$(ARCH64)/llib-ldevid.ln
395 link path=usr/lib/$(ARCH64)/llib-ldevinfo.ln \
396 target=../../../../lib/$(ARCH64)/llib-ldevinfo.ln
397 link path=usr/lib/$(ARCH64)/llib-ldl.ln \
398 target=../../../../lib/$(ARCH64)/llib-ldl.ln
399 link path=usr/lib/$(ARCH64)/llib-ldoor.ln \
400 target=../../../../lib/$(ARCH64)/llib-ldoor.ln
401 link path=usr/lib/$(ARCH64)/llib-lefi.ln \
402 target=../../../../lib/$(ARCH64)/llib-lefi.ln
403 link path=usr/lib/$(ARCH64)/llib-lelf.ln \
404 target=../../../../lib/$(ARCH64)/llib-lelf.ln
405 $(i386_ONLY)link path=usr/lib/$(ARCH64)/llib-lfdisk.ln \
406 target=../../../../lib/$(ARCH64)/llib-lfdisk.ln
407 link path=usr/lib/$(ARCH64)/llib-lgen.ln \
408 target=../../../../lib/$(ARCH64)/llib-lgen.ln
409 link path=usr/lib/$(ARCH64)/llib-lintl.ln \
410 target=../../../../lib/$(ARCH64)/llib-lintl.ln
411 link path=usr/lib/$(ARCH64)/llib-lkstat.ln \
412 target=../../../../lib/$(ARCH64)/llib-lkstat.ln
413 link path=usr/lib/$(ARCH64)/llib-lmd5.ln \
414 target=../../../../lib/$(ARCH64)/llib-lmd5.ln
415 link path=usr/lib/$(ARCH64)/llib-lnsl.ln \
416 target=../../../../lib/$(ARCH64)/llib-lnsl.ln
417 link path=usr/lib/$(ARCH64)/llib-lnvpair.ln \

```

```

418 target=../../../../lib/$(ARCH64)/llib-lnvpair.ln
419 link path=usr/lib/$(ARCH64)/llib-lpam.ln \
420 target=../../../../lib/$(ARCH64)/llib-lpam.ln
421 link path=usr/lib/$(ARCH64)/llib-lposix4.ln \
422 target=../../../../lib/$(ARCH64)/llib-lrt.ln
423 link path=usr/lib/$(ARCH64)/llib-lpthread.ln \
424 target=../../../../lib/$(ARCH64)/llib-lpthread.ln
425 link path=usr/lib/$(ARCH64)/llib-lresolv.ln \
426 target=../../../../lib/$(ARCH64)/llib-lresolv.ln
427 link path=usr/lib/$(ARCH64)/llib-lrpcsvc.ln \
428 target=../../../../lib/$(ARCH64)/llib-lrpcsvc.ln
429 link path=usr/lib/$(ARCH64)/llib-lrt.ln \
430 target=../../../../lib/$(ARCH64)/llib-lrt.ln
431 link path=usr/lib/$(ARCH64)/llib-lrtld_db.ln \
432 target=../../../../lib/$(ARCH64)/llib-lrtld_db.ln
433 link path=usr/lib/$(ARCH64)/llib-lscf.ln \
434 target=../../../../lib/$(ARCH64)/llib-lscf.ln
435 link path=usr/lib/$(ARCH64)/llib-lsec.ln \
436 target=../../../../lib/$(ARCH64)/llib-lsec.ln
437 link path=usr/lib/$(ARCH64)/llib-lsecdb.ln \
438 target=../../../../lib/$(ARCH64)/llib-lsecdb.ln
439 link path=usr/lib/$(ARCH64)/llib-lsendfile.ln \
440 target=../../../../lib/$(ARCH64)/llib-lsendfile.ln
441 link path=usr/lib/$(ARCH64)/llib-lsocket.ln \
442 target=../../../../lib/$(ARCH64)/llib-lsocket.ln
443 link path=usr/lib/$(ARCH64)/llib-lsysevent.ln \
444 target=../../../../lib/$(ARCH64)/llib-lsysevent.ln
445 link path=usr/lib/$(ARCH64)/llib-ltermcap.ln \
446 target=../../../../lib/$(ARCH64)/llib-ltermcap.ln
447 link path=usr/lib/$(ARCH64)/llib-ltermplib.ln \
448 target=../../../../lib/$(ARCH64)/llib-lcurses.ln
449 link path=usr/lib/$(ARCH64)/llib-lthread.ln \
450 target=../../../../lib/$(ARCH64)/llib-lthread.ln
451 link path=usr/lib/$(ARCH64)/llib-lthread_db.ln \
452 target=../../../../lib/$(ARCH64)/llib-lc_db.ln
453 link path=usr/lib/$(ARCH64)/llib-ltsnet.ln \
454 target=../../../../lib/$(ARCH64)/llib-ltsnet.ln
455 link path=usr/lib/$(ARCH64)/llib-ltsol.ln \
456 target=../../../../lib/$(ARCH64)/llib-ltsol.ln
457 link path=usr/lib/$(ARCH64)/llib-lumem.ln \
458 target=../../../../lib/$(ARCH64)/llib-lumem.ln
459 link path=usr/lib/$(ARCH64)/llib-luuid.ln \
460 target=../../../../lib/$(ARCH64)/llib-luuid.ln
461 link path=usr/lib/$(ARCH64)/llib-lxnet.ln \
462 target=../../../../lib/$(ARCH64)/llib-lxnet.ln
463 link path=usr/lib/llib-ladm target=../../../../lib/llib-ladm
464 link path=usr/lib/llib-ladm.ln target=../../../../lib/llib-ladm.ln
465 link path=usr/lib/llib-laio target=../../../../lib/llib-laio
466 link path=usr/lib/llib-laio.ln target=../../../../lib/llib-laio.ln
467 link path=usr/lib/llib-lavl target=../../../../lib/llib-lavl
468 link path=usr/lib/llib-lavl.ln target=../../../../lib/llib-lavl.ln
469 link path=usr/lib/llib-lbsm target=../../../../lib/llib-lbsm
470 link path=usr/lib/llib-lbsm.ln target=../../../../lib/llib-lbsm.ln
471 link path=usr/lib/llib-lc target=../../../../lib/llib-lc
472 link path=usr/lib/llib-lc.ln target=../../../../lib/llib-lc.ln
473 link path=usr/lib/llib-lcontract target=../../../../lib/llib-lcontract
474 link path=usr/lib/llib-lcontract.ln target=../../../../lib/llib-lcontract.ln
475 link path=usr/lib/llib-lctf target=../../../../lib/llib-lctf
476 link path=usr/lib/llib-lctf.ln target=../../../../lib/llib-lctf.ln
477 link path=usr/lib/llib-lcurses target=../../../../lib/llib-lcurses
478 link path=usr/lib/llib-lcurses.ln target=../../../../lib/llib-lcurses.ln
479 link path=usr/lib/llib-ldevice target=../../../../lib/llib-ldevice
480 link path=usr/lib/llib-ldevice.ln target=../../../../lib/llib-ldevice.ln
481 link path=usr/lib/llib-ldevid target=../../../../lib/llib-ldevid
482 link path=usr/lib/llib-ldevid.ln target=../../../../lib/llib-ldevid.ln
483 link path=usr/lib/llib-ldevinfo target=../../../../lib/llib-ldevinfo

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```

484 link path=usr/lib/llib-ldevinfo.ln target=../lib/llib-ldevinfo.ln
485 link path=usr/lib/llib-ldl target=../lib/llib-ldl
486 link path=usr/lib/llib-ldl.ln target=../lib/llib-ldl.ln
487 link path=usr/lib/llib-ldoor target=../lib/llib-ldoor
488 link path=usr/lib/llib-ldoor.ln target=../lib/llib-ldoor.ln
489 link path=usr/lib/llib-lefi target=../lib/llib-lefi
490 link path=usr/lib/llib-lefi.ln target=../lib/llib-lefi.ln
491 link path=usr/lib/llib-lelf target=../lib/llib-lelf
492 link path=usr/lib/llib-lelf.ln target=../lib/llib-lelf.ln
493 $(i386_ONLY)link path=usr/lib/llib-lfdisk target=../lib/llib-lfdisk
494 $(i386_ONLY)link path=usr/lib/llib-lfdisk.ln target=../lib/llib-lfdisk.ln
495 link path=usr/lib/llib-lgen target=../lib/llib-lgen
496 link path=usr/lib/llib-lgen.ln target=../lib/llib-lgen.ln
497 link path=usr/lib/llib-lintl target=../lib/llib-lintl
498 link path=usr/lib/llib-lintl.ln target=../lib/llib-lintl.ln
499 link path=usr/lib/llib-lkstat target=../lib/llib-lkstat
500 link path=usr/lib/llib-lkstat.ln target=../lib/llib-lkstat.ln
501 link path=usr/lib/llib-lmd5 target=../lib/llib-lmd5
502 link path=usr/lib/llib-lmd5.ln target=../lib/llib-lmd5.ln
503 link path=usr/lib/llib-lns1 target=../lib/llib-lns1
504 link path=usr/lib/llib-lns1.ln target=../lib/llib-lns1.ln
505 link path=usr/lib/llib-lnvpair target=../lib/llib-lnvpair
506 link path=usr/lib/llib-lnvpair.ln target=../lib/llib-lnvpair.ln
507 link path=usr/lib/llib-lpam target=../lib/llib-lpam
508 link path=usr/lib/llib-lpam.ln target=../lib/llib-lpam.ln
509 link path=usr/lib/llib-lposix4 target=../lib/llib-lrt
510 link path=usr/lib/llib-lposix4.ln target=../lib/llib-lrt.ln
511 link path=usr/lib/llib-lpthread target=../lib/llib-lpthread
512 link path=usr/lib/llib-lpthread.ln target=../lib/llib-lpthread.ln
513 link path=usr/lib/llib-lresolv target=../lib/llib-lresolv
514 link path=usr/lib/llib-lresolv.ln target=../lib/llib-lresolv.ln
515 link path=usr/lib/llib-lrpcsvc target=../lib/llib-lrpcsvc
516 link path=usr/lib/llib-lrpcsvc.ln target=../lib/llib-lrpcsvc.ln
517 link path=usr/lib/llib-lrt target=../lib/llib-lrt
518 link path=usr/lib/llib-lrt.ln target=../lib/llib-lrt.ln
519 link path=usr/lib/llib-lrtld_db target=../lib/llib-lrtld_db
520 link path=usr/lib/llib-lrtld_db.ln target=../lib/llib-lrtld_db.ln
521 link path=usr/lib/llib-lscf target=../lib/llib-lscf
522 link path=usr/lib/llib-lscf.ln target=../lib/llib-lscf.ln
523 link path=usr/lib/llib-lsec target=../lib/llib-lsec
524 link path=usr/lib/llib-lsec.ln target=../lib/llib-lsec.ln
525 link path=usr/lib/llib-lsecdb target=../lib/llib-lsecdb
526 link path=usr/lib/llib-lsecdb.ln target=../lib/llib-lsecdb.ln
527 link path=usr/lib/llib-lsendfile target=../lib/llib-lsendfile
528 link path=usr/lib/llib-lsendfile.ln target=../lib/llib-lsendfile.ln
529 link path=usr/lib/llib-lsocket target=../lib/llib-lsocket
530 link path=usr/lib/llib-lsocket.ln target=../lib/llib-lsocket.ln
531 link path=usr/lib/llib-lsysevent target=../lib/llib-lsysevent
532 link path=usr/lib/llib-lsysevent.ln target=../lib/llib-lsysevent.ln
533 link path=usr/lib/llib-ltermcap target=../lib/llib-ltermcap
534 link path=usr/lib/llib-ltermcap.ln target=../lib/llib-ltermcap.ln
535 link path=usr/lib/llib-ltermplib target=../lib/llib-lcurses
536 link path=usr/lib/llib-ltermplib.ln target=../lib/llib-lcurses.ln
537 link path=usr/lib/llib-lthread target=../lib/llib-lthread
538 link path=usr/lib/llib-lthread.ln target=../lib/llib-lthread.ln
539 link path=usr/lib/llib-lthread_db target=../lib/llib-lc_db
540 link path=usr/lib/llib-lthread_db.ln target=../lib/llib-lc_db.ln
541 link path=usr/lib/llib-ltsnet.ln target=../lib/llib-ltsnet.ln
542 link path=usr/lib/llib-ltsol.ln target=../lib/llib-ltsol.ln
543 link path=usr/lib/llib-lumem target=../lib/llib-lumem
544 link path=usr/lib/llib-lumem.ln target=../lib/llib-lumem.ln
545 link path=usr/lib/llib-luuid target=../lib/llib-luuid
546 link path=usr/lib/llib-luuid.ln target=../lib/llib-luuid.ln
547 link path=usr/lib/llib-lxnet target=../lib/llib-lxnet
548 link path=usr/lib/llib-lxnet.ln target=../lib/llib-lxnet.ln
549 # Used to be incorrectly in this package, pull it in for compatibility

```

```

550 depend fmri=system/library/c-runtime type=group
551 #endif /* ! codereview */

```

new/usr/src/pkg/manifests/system-library-c-runtime.mf

1

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new/usr/src/pkg/manifests/system-library-c-runtime.mf

8609 want a position independent CRT

```
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 # Copyright 2016, Richard Lowe.
13 set name=pkg.fmri value=pkg:/system/library/c-runtime@$(PKGVERS)
14 set name=pkg.description value="C runtime objects"
15 set name=pkg.summary value="C Runtime"
16 set name=info.classification value=org.opensolaris.category.2008:Development/C
17 set name=variant.arch value=$(ARCH)
18 file path=usr/lib/$(ARCH64)/crt1.o
19 file path=usr/lib/$(ARCH64)/crti.o
20 file path=usr/lib/$(ARCH64)/crtn.o
21 file path=usr/lib/$(ARCH64)/values-Xa.o
22 file path=usr/lib/$(ARCH64)/values-Xc.o
23 file path=usr/lib/$(ARCH64)/values-Xs.o
24 file path=usr/lib/$(ARCH64)/values-Xt.o
25 file path=usr/lib/$(ARCH64)/values-xpg4.o
26 file path=usr/lib/$(ARCH64)/values-xpg6.o
27 file path=usr/lib/crt1.o
28 file path=usr/lib/crti.o
29 file path=usr/lib/crtn.o
30 file path=usr/lib/values-Xa.o
31 file path=usr/lib/values-Xc.o
32 file path=usr/lib/values-Xs.o
33 file path=usr/lib/values-Xt.o
34 file path=usr/lib/values-xpg4.o
35 file path=usr/lib/values-xpg6.o
36 license cr_Sun license=cr_Sun
37 license lic_CDDL license=lic_CDDL
38 link path=usr/ccs/lib/$(ARCH64)/values-Xa.o \
39     target=../../../../lib/$(ARCH64)/values-Xa.o
40 link path=usr/ccs/lib/$(ARCH64)/values-Xc.o \
41     target=../../../../lib/$(ARCH64)/values-Xc.o
42 link path=usr/ccs/lib/$(ARCH64)/values-Xs.o \
43     target=../../../../lib/$(ARCH64)/values-Xs.o
44 link path=usr/ccs/lib/$(ARCH64)/values-Xt.o \
45     target=../../../../lib/$(ARCH64)/values-Xt.o
46 link path=usr/ccs/lib/$(ARCH64)/values-xpg4.o \
47     target=../../../../lib/$(ARCH64)/values-xpg4.o
48 link path=usr/ccs/lib/$(ARCH64)/values-xpg6.o \
49     target=../../../../lib/$(ARCH64)/values-xpg6.o
50 link path=usr/ccs/lib/values-Xa.o target=../../lib/values-Xa.o
51 link path=usr/ccs/lib/values-Xc.o target=../../lib/values-Xc.o
52 link path=usr/ccs/lib/values-Xs.o target=../../lib/values-Xs.o
53 link path=usr/ccs/lib/values-Xt.o target=../../lib/values-Xt.o
54 link path=usr/ccs/lib/values-xpg4.o target=../../lib/values-xpg4.o
55 link path=usr/ccs/lib/values-xpg6.o target=../../lib/values-xpg6.o
56 $(i386_ONLY)link path=usr/lib/$(ARCH64)/gcrt1.o target=crt1.o
57 $(i386_ONLY)link path=usr/lib/gcrt1.o target=crt1.o
58 #endif /* ! codereview */
```