

```

new/usr/src/cmd/awk_xpg4/Makefile 1
*****
2080 Tue Dec 6 18:25:32 2016
new/usr/src/cmd/awk_xpg4/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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25 #
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

```

```

new/usr/src/cmd/awk_xpg4/Makefile 2
53 POFILE= awk_xpg4.po
54 POFILES= $(OBJ1:%.o=%.po) $(OBJ2:%.o=%.po)

56 .KEEP_STATE:

58 .PARALLEL: $(OBJS)

60 all: $(XPG4)

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

```
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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
```

new/usr/src/cmd/cron/Makefile

2

```
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
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 CRNOBJS=       cron.o elm.o
81 ATOBJS=       at.o att1.o att2.o
82 XPG4OBS=       values-xpg4.o
83 ATRMOBJS1=    atrm.o
84 ATRMOBJS=     $(ATRMOBJS1) $(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 :=       POBJS = $(CRNOBJS) $(COMMONOBJ2)
100 at :=         POBJS = $(ATOBS) $(COMMONOBS)
101 at.xpg4 :=    POBJS = $(XPG4ATOBS) $(XPG4COMMONOBS)
102 atrm :=       POBJS = $(ATRMOBJS) $(COMMONOBS)
103 atq :=        POBJS = $(ATQOBS) $(COMMONOBS)
104 crontab :=    POBJS = $(CRONTABOBS) $(COMMONOBS)
105 crontab.xpg4 := POBJS = $(XPG4CTOBS) $(XPG4COMMONOBS)
106 crontab.xpg6 := POBJS = $(XPG6CTOBS) $(XPG6COMMONOBS)

108 CFLAGS +=     $(CCVERBOSE)

110 NOBJS=        $(CRNOBJS) $(ATOBS) $(ATRMOBJS1) $(ATQOBS) $(CRONTABOBS1) \
111               $(COMMONOBS)
112 OJS =         $(NOBJS) $(XPG4COMMONOBS) $(XPG4ATOBS) $(XPG4CTOBS) \
113               $(XPG6COMMONOBS) $(XPG6CTOBS) $(GETRESPOBJ)

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

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

## new/usr/src/cmd/cron/Makefile

3

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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
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

```

## new/usr/src/cmd/cron/Makefile

4

```

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_0)

191 objs.xpg4/%.o: $(SRC)/common/util/%.c
192 $(COMPILE.c) -o $$@ $<
193 $(POST_PROCESS_0)

195 objs.xpg6/%.o: $(SRC)/common/util/%.c
196 $(COMPILE.c) -o $$@ $<
197 $(POST_PROCESS_0)

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

```

new/usr/src/cmd/date/Makefile

1

```
*****
1435 Tue Dec  6 18:25:35 2016
new/usr/src/cmd/date/Makefile
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- Implement SPARC versions of the ASM sections of crt1
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  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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
```

new/usr/src/cmd/date/Makefile

2

```
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

58 include ../Makefile.targ
```

new/usr/src/cmd/ed/Makefile

1

```
*****
2944 Tue Dec 6 18:25:36 2016
new/usr/src/cmd/ed/Makefile
crt: Need a position-independent CRT for PIE
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- Implement crt1 with the hook expected by modern GCC to support
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24 #

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 += $(CVERBOSE)
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 LDFLAGS += $(MAPFILE.INT:%=-M%)
```

new/usr/src/cmd/ed/Makefile

2

```
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:

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
```

**new/usr/src/cmd/ed/Makefile**

**3**

```
116 lint: lint_PROG
```

```
118 include ../Makefile.targ
```

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

1

\*\*\*\*\*

989 Tue Dec 6 18:25:37 2016

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
30 echo_file usr/src/lib/common/common/values-xpg4.c
31 echo_file usr/src/lib/common/common/values-xpg6.c
```

new/usr/src/cmd/env/Makefile

1

```
*****
1352 Tue Dec 6 18:25:38 2016
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25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #
```

```
27 PROG= env
28 XPG4PROG= env
29 OBJS= env.o

31 include ../Makefile.cmd

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

35 .KEEP_STATE:

37 all: $(PROG) $(XPG4)

39 $(PROG) $(XPG4): $$$(OBJS)
40     $(LINK.c) -o $$@ $(OBJS) $(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:
```

new/usr/src/cmd/env/Makefile

2

```
49     $(RM) $(OBJS)

51 lint: lint_PROG

53 include ../Makefile.targ
```



```

*****
3641 Tue Dec 6 18:25:39 2016
new/usr/src/cmd/getconf/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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 XPG4EXOBJJS= $(X4)/getconf.o
34 XPG6EXOBJJS= $(X6)/getconf.o

36 include ../Makefile.cmd

38 XPG4EXOBJJS += 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.
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): $(OBJJS)
78 $(LINK.c) -o $@ $(OBJJS) $(LDLIBS)
79 $(POST_PROCESS)

81 $(XPG4): $(X4) $(XPG4EXOBJJS)
82 $(LINK.c) -o $@ $(XPG4EXOBJJS) $(LDLIBS)
83 $(POST_PROCESS)

85 $(XPG6): $(X6) $(XPG6EXOBJJS)
86 $(LINK.c) -o $@ $(XPG6EXOBJJS) $(LDLIBS)
87 $(POST_PROCESS)

90 $(XPG4EXOBJJS): $(X4)

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

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

101 $(XPG6EXOBJJS): $(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

```

**new/usr/src/cmd/getconf/Makefile**

**3**

```
117 clean:
118     -@rm -rf $(OBS) $(XPG4EXOBS) $(XPG6EXOBS) $(X4) $(X6) \
119         $(PROG) $(XPG4) $(XPG6)
121 lint:  lint_PROG
123 include ../Makefile.targ
```

new/usr/src/cmd/link/Makefile

1

```
*****
1522 Tue Dec 6 18:25:40 2016
new/usr/src/cmd/link/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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)
```

new/usr/src/cmd/link/Makefile

2

```
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

61 include ../Makefile.targ
```

new/usr/src/cmd/mv/Makefile

1

```
*****
2664 Tue Dec 6 18:25:42 2016
new/usr/src/cmd/mv/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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 += $(CVERBOSE)
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
```

new/usr/src/cmd/mv/Makefile

2

```
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)

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 Tue Dec  6 18:25:43 2016
new/usr/src/cmd/nice/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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 += $(CVERBOSE)

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
```

new/usr/src/cmd/nice/Makefile

2

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

52 lint: lint_PROG

54 include ../Makefile.targ
```

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

1

\*\*\*\*\*

1163 Tue Dec 6 18:25:44 2016

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

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

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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 Tue Dec 6 18:25:45 2016

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

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

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23 # Copyright 2004 Sun Microsystems, Inc. All rights reserved.
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25 #
26 #ident "%Z%M% %I% %E% SMI"
```

```
27 CRTSRCS= $(SRC)/lib/crt/i86
28 CRTSRCS= $(SRC)/lib/common/i386
28 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 Tue Dec 6 18:25:46 2016

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

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

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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 Tue Dec 6 18:25:47 2016

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

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

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

```
27 CRTSRCS= $(SRC)/lib/crt/sparcv9
28 CRTSRCS= $(SRC)/lib/common/sparcv9
28 include $(SRC)/cmd/sgs/0@0/Makefile.com

30 .KEEP_STATE:

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

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

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

1

```
*****
2457 Tue Dec 6 18:25:48 2016
new/usr/src/cmd/sgs/rtld/amd64/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcart)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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21 #
22 #
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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 dlfcn.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_ASOBSJ= boot.o boot_elf.o caller.o
48 #
49 S_ASOBSJ=
50 #
51 CRTSRCS= ../../../../lib/crt/amd64
52 CRTSRCS= ../../../../lib/common/amd64
```

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

2

```
52 CRTI= pics/crti.o
53 CRTN= pics/crtn.o
54 CRTS= $(CRTI) $(CRTN)
55 #
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
61 $(__GNUC64)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 LDBGLIBDIR = $(LDBGLIBDIR64)
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
```

new/usr/src/cmd/sgs/rtld/i386/Makefile

1

```
*****
2131 Tue Dec 6 18:25:49 2016
new/usr/src/cmd/sgs/rtld/i386/Makefile
cr: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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                 dlfcn.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
```

new/usr/src/cmd/sgs/rtld/i386/Makefile

2

```
52 CRTI=         pics/crti.o
53 CRTN=         pics/crtn.o
54 CRTS=         $(CRTI)          $(CRTN)
55 #
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 $(__GNUG)MAPFILE-ORDER =  ../common/mapfile-order-gcc
61 #
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 SGSMSTARG +=  $(SGSMGINTEL) $(SGSMGINTEL32) $(SGMSG32)
72 #
73 .KEEP_STATE:
74 #
75 all:          $(RTLD)
76 #
77 install:     all $(ROOTDYNLIB)
78 #
79 lint:        $(LINTOUT32)
80 #
81 adbm macros:  adb .WAIT $(ADBSCRIPTS)
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 Tue Dec 6 18:25:50 2016
new/usr/src/cmd/sgs/rtld/sparc/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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22 #
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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 dlcns.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_ASOBSJ= boot.o boot_elf.o caller.o
47 #
48 S_ASOBSJ= boot_a.out.o
49 #
50 CRTSRCS= ../../../../lib/crt/sparcv7
50 CRTSRCS= ../../../../lib/common/sparc
51 CRTI= pics/crti.o
```

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

2

```
52 CRTN= pics/crtn.o
53 CRTS= $(CRTI) $(CRTN)
54 #
55 CHKSRCS= $(SRCBASE)/uts/common/krtld/reloc.h
56 #
57 BASEPLAT = sparc
58 #
59 include $(SRC)/Makefile.master
60 #
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 SGMSGTARG += $(SGMSGSPARC) $(SGMSGSPARC32) $(SGMSG32)
79 #
80 .KEEP_STATE:
81 #
82 all: $(RTLD)
83 #
84 install: all $(ROOTDYNLIB)
85 #
86 lint: $(LINTOUT32)
87 #
88 adbm macros: adb .WAIT $(ADBSSCRIPTS)
89 #
90 adbin install: adbm macros .WAIT $(ROOTADB)
91 #
92 include $(SRC)/cmd/sgs/rtld/Makefile.targ
```

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

1

```
*****
2655 Tue Dec 6 18:25:51 2016
new/usr/src/cmd/sgs/rtld/sparcv9/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcart)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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_COMOBSJS=  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_COMOBSJS=  debug.o          audit.o       object.o
36 #
37 G_MACHOBSJS= doreloc.o
38 #
39 P_MACHOBSJS= sparc_elf.o  _setup.o
40 #
41 CP_MACHOBSJS= common_sparc.o
42 #
43 S_MACHOBSJS=
44 #
45 P_ASOBSJS=  boot.o          boot_elf.o    caller.o
46 #
47 S_ASOBSJS=
48 #
49 CRTSRCS=    ../../../../lib/crt/sparcv9
50 CRTSRCS=    ../../../../lib/common/sparcv9
51 CRTI=       pics/crti.o
52 CRTN=       pics/crtn.o
```

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

2

```
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
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 SGMSGSTARG += $(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 adbmactros:  adb .WAIT $(ADBSSCRIPTS)
98 #
99 adbinstall:  adbmactros .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 Tue Dec 6 18:25:52 2016
new/usr/src/cmd/vi/port/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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 #
44 EXOBSJS_XPG4= $(EXOBSJS) compile.o values-xpg4.o
45 EXOBSJS_XPG6= $(EXOBSJS) compile.o values-xpg6.o
46 XPG4EXOBSJS= ${EXOBSJS_XPG4:%=$(XD4)/%}
47 XPG6EXOBSJS= ${EXOBSJS_XPG6:%=$(XD6)/%}
48 EXRECOVEROBSJS= exrecover.o ex_extern.o
49 OBSJS= $(EXOBSJS) $(XPG4EXOBSJS) $(XPG6EXOBSJS) expreserve.o exrecover.o
50 SRCS= $(EXOBSJS:%.o=%.c) expreserve.c exrecover.c
51 TXTS = READ_ME makeoptions asfix.c70 ex.news port.mk.370 port.mk.70 \
port.mk.c70 port.mk.usg ovdoprnt.s ovprintf.c rofix
```

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

2

```
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
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 #
95 ROOTXPG4LINKS= $(ROOTXPG4BIN)/vi $(ROOTXPG4BIN)/view $(ROOTXPG4BIN)/edit \
96 $(ROOTXPG4BIN)/vedit
97 ROOTXPG6LINKS= $(ROOTXPG6BIN)/vi $(ROOTXPG6BIN)/view $(ROOTXPG6BIN)/edit \
98 $(ROOTXPG6BIN)/vedit
99 .KEEP_STATE:
100 #
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
```

```
120 %values-xpg4.o: ../../lib/crt/common/values-xpg4.c
121     $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg4.c
120 %values-xpg4.o: ../../lib/common/common/values-xpg4.c
121     $(COMPILE.c) -o $@ ../../lib/common/common/values-xpg4.c

123 %values-xpg6.o: ../../lib/crt/common/values-xpg6.c
124     $(COMPILE.c) -o $@ ../../lib/crt/common/values-xpg6.c
123 %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

\*\*\*\*\*

969 Tue Dec 6 18:25:53 2016

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

crt: Need a position-independent CRT for PIE

- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position independent
- Implement crt1 with the hook expected by modern GCC to support profiling, make gcrt1 a symlink for source compatibility (older GCC initializes profiling at first use of \_mcount if necessary, so doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package

\*\*\*\*\*

```
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, Version 1.0 only
7 # (the "License"). You may not use this file except in compliance
8 # with the License.
9 #
10 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
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12 # See the License for the specific language governing permissions
13 # and limitations under the License.
14 #
15 # When distributing Covered Code, include this CDDL HEADER in each
16 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
17 # If applicable, add the following below this CDDL HEADER, with the
18 # fields enclosed by brackets "[]" replaced with your own identifying
19 # information: Portions Copyright [yyyy] [name of copyright owner]
20 #
21 # CDDL HEADER END
22 #
23 #
24 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 # ident "%Z%M% %I% %E% SMI"
28 #
29
30
31 echo_file usr/src/cmd/expr/compile.c
32 echo_file usr/src/lib/common/common/values-xpg4.c
33 echo_file usr/src/lib/common/common/values-xpg6.c
34 echo_file usr/src/lib/libc/inc/xpg6.h
```



```

*****
14278 Tue Dec 6 18:25:54 2016
new/usr/src/lib/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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2 # CDDL HEADER START
3 #
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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 #
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15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
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 2015 Nexenta Systems, Inc. All rights reserved.
30 # Copyright 2016 Toomas Soome <tsoome@me.com>
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

```

```

52 # Build libraries with lots of dependents
53 SUBDIRS += \
54 libm \
55 libmd \
56 libmp \
57 libnsl \
58 libnvpair \
59 libsocket \
60 .WAIT
61 #
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 libdhcpageant \
110 libdhcputil \
111 libdisasm \
112 libdiskmgt \
113 libdladm \
114 libdll \
115 libdlpi \
116 libdns_sd \
117 libdoor \

```

## new/usr/src/lib/Makefile

```

118 libdscfg //
119 libdtrace //
120 libdtrace_jni //
121 libefi //
122 libelfsign //
123 libeti //
124 libexacct //
125 libexacct/demo //
126 libfakekernel //
127 libfcoe //
128 libficl //
129 libfru //
130 libfruutils //
131 libfsmgt //
132 libfstyp //
133 libgen //
134 libgrubmgt //
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 libipsecutil //
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 libpam //
172 libpcidb //
173 libpctx //
174 libpicl //
175 libpicltree //
176 libpkg //
177 libpool //
178 libpp //
179 libproc //
180 libproject //
181 libpthread //
182 libraidcfg //
183 librcm //

```

3

## new/usr/src/lib/Makefile

```

184 librdr //
185 libreparse //
186 libresolv //
187 libresolv2 //
188 librestart //
189 librpcsvc //
190 librs //
191 librstp //
192 librt //
193 libsas1 //
194 libscf //
195 libsched //
196 libsctp //
197 libsec //
198 libsecdb //
199 libsendfile //
200 libshare //
201 libshell //
202 libsip //
203 libslldap //
204 libslp //
205 libsmbfs //
206 libsmbios //
207 libsmmedia //
208 libsqlite //
209 libsrpt //
210 libstmf //
211 libstmfproxy //
212 libsum //
213 libsun_ima //
214 libsys //
215 libsysevent //
216 libtecla //
217 libtermcap //
218 libthread //
219 libtnf //
220 libtnfctl //
221 libtnfprobe //
222 libtsnet //
223 libtsol //
224 libumem //
225 libunistat //
226 libuuid //
227 libuutil //
228 libvolmgt //
229 libvrrpadm //
230 libvscan //
231 libw //
232 libwanboot //
233 libwanbootutil //
234 libwrap //
235 libxcurses //
236 libxcurses2 //
237 libxnet //
238 libzfs //
239 libzfs_core //
240 libzfs_jni //
241 libzonecfg //
242 libzoneinfo //
243 libzonestat //
244 libzpool //
245 lvm //
246 madv //
247 mpapi //
248 mpss //
249 nametoaddr //

```

4

## new/usr/src/lib/Makefile

```

250      ncad_addr      \
251      nsswitch      \
252      pam_modules   \
253      passwdutil    \
254      pkcs11        \
255      policykit     \
256      print         \
257      pylibbe       \
258      pysolaris     \
259      pyzfs         \
260      raidcfg_plugins \
261      rpcsec_gss    \
262      sasl_plugins  \
263      scsi          \
264      smbserver     \
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      libpcp    \
286      libtsalarm \
287      libvl2n

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 = \
296      lvm

298 MSGSUBDIRS= \
299      abi \
300      auditd_plugins \
301      brand \
302      cfgadm_plugins \
303      gss_mechs/mech_dh \
304      gss_mechs/mech_krb5 \
305      krb5 \
306      libast \
307      libbsm \
308      libc \
309      libcfgadm \
310      libcmd \
311      libcontract \
312      libcurses \
313      libdhcputil \
314      libdiskmgt \
315      libdladm

```

5

## new/usr/src/lib/Makefile

```

316      libdll \
317      libgrubmgmt \
318      libgss \
319      libidmap \
320      libilb \
321      libinetutil \
322      libinstzones \
323      libipadm \
324      libipmp \
325      libipsecutil \
326      libldap5 \
327      libns1 \
328      libnwam \
329      libpam \
330      libpicl \
331      libpkg \
332      libpool \
333      libpp \
334      librepase \
335      libsas1 \
336      libscf \
337      libsecdb \
338      libshare \
339      libshell \
340      libslldap \
341      libslp \
342      libsbmfs \
343      libsmmedia \
344      libsum \
345      libtsol \
346      libuutil \
347      libvrrpadm \
348      libvscan \
349      libwanboot \
350      libwanbootutil \
351      libzfs \
352      libzonecfg \
353      lvm \
354      madv \
355      mpss \
356      pam_modules \
357      pyzfs \
358      rpcsec_gss \
359      ${$(MACH)_MSGSUBDIRS}

361 sparc_MSGSUBDIRS= \
362      libprtdiag \
363      libprtdiag_psr

365 i386_MSGSUBDIRS= libfdisk

367 HDRSUBDIRS= \
368      ../cmd/sendmail/libmilter \
369      auditd_plugins \
370      fm \
371      hal \
372      hbaapi \
373      libads \
374      libast \
375      libbrand \
376      libbsm \
377      libc \
378      libcmd \
379      libcmdutils \
380      libcommputil \
381      libcontract

```

6

## new/usr/src/lib/Makefile

```

382 libcpic //
383 libcryptoutil //
384 libctf //
385 libcurses //
386 libdevice //
387 libdevind //
388 libdevinfo //
389 libdhcpcagent //
390 libdhcputil //
391 libdisasm //
392 libdiskmgt //
393 libdladm //
394 libdll //
395 libdlpi //
396 libdns_sd //
397 libdscfg //
398 libdtrace //
399 libdtrace_jni //
400 libelfsign //
401 libeti //
402 libfakekernel //
403 libfcoe //
404 libfru //
405 libfstyp //
406 libgen //
407 libgrubmgt //
408 libidmap //
409 libilb //
410 libima //
411 libinetsvc //
412 libinetutil //
413 libinstzones //
414 libipadm //
415 libipd //
416 libipmi //
417 libipmp //
418 libipp //
419 libipsecutil //
420 libiscsit //
421 libkrb5 //
422 libkstat //
423 libkvm //
424 libmail //
425 libmapid //
426 libmd //
427 libmtmalloc //
428 libndmp //
429 libnsctl //
430 libnsl //
431 libnvpair //
432 libnwam //
433 libpam //
434 libpcidb //
435 libpctx //
436 libpicl //
437 libpicltree //
438 libpool //
439 libpp //
440 libproc //
441 libraidcfg //
442 librcm //
443 librdc //
444 libreparse //
445 librestart //
446 librpcsvc //
447 librsm //

```

7

## new/usr/src/lib/Makefile

```

448 librstp //
449 librsasl //
450 libscf //
451 libsec //
452 libshare //
453 libshell //
454 libsip //
455 libslp //
456 libsmbfs //
457 libsmbios //
458 libsmmedia //
459 libsocket //
460 libsqlite //
461 libsrpt //
462 libstmf //
463 libstmfproxy //
464 libsum //
465 libsum_ima //
466 libsysevent //
467 libtecla //
468 libtermcap //
469 libtnf //
470 libtnfctl //
471 libtnfprobe //
472 libtsnet //
473 libtsol //
474 libumem //
475 libunistat //
476 libuutil //
477 libvolmgt //
478 libvrrpadm //
479 libvscan //
480 libwanboot //
481 libwanbootutil //
482 libwrap //
483 libxcurses2 //
484 libzfs //
485 libzfs_core //
486 libzfs_jni //
487 libzoneinfo //
488 libzonestat //
489 lvm //
490 mpapi //
491 passwdutil //
492 pkcs11 //
493 policykit //
494 scsi //
495 smbsrv //
496 smhba //
497 udapl //
498 $(MACH)_HDRSUBDIRS //

500 i386_HDRSUBDIRS= //
501 libfdisk //
502 libsaveargs //

504 sparc_HDRSUBDIRS= //
505 libds //
506 libdscp //
507 libpri //
508 libv12n //
509 storage //

511 all := TARGET= all
512 check := TARGET= check
513 clean := TARGET= clean

```

8

```

514 clobber := TARGET= clobber
515 install := TARGET= install
516 install_h := TARGET= install_h
517 lint := TARGET= lint
518 _dc := TARGET= _dc
519 _msg := TARGET= _msg

521 .KEEP_STATE:

523 #
524 # For the all and install targets, we clearly must respect library
525 # dependencies so that the libraries link correctly. However, for
526 # the remaining targets (check, clean, clobber, install_h, lint, _dc
527 # and _msg), libraries do not have any dependencies on one another
528 # and thus respecting dependencies just slows down the build.
529 # As such, for these rules, we use pattern replacement to explicitly
530 # avoid triggering the dependency information. Note that for clean,
531 # clobber and lint, we must use $(NOWAIT_SUBDIRS) rather than
532 # $(SUBDIRS), to prevent '.WAIT' from expanding to '.WAIT-nodepend'.
533 #

535 all: $(SUBDIRS)

537 install: $(SUBDIRS) .WAIT install_extra

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

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

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

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

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

552 # Library interdependencies are called out explicitly here.
553 ../cmd/sgs/libconv: crt
554 ../cmd/sgs/libdl: crt
555 libconv: common
556 ../cmd/sgs/libdl: common
557 libconv: ../cmd/sgs/libconv ../cmd/sgs/libdl

558 lib: lib
559 libmd: lib
560 libmp: lib
561 libns1: lib libmd libmp
562 libnvpair: lib libns1
563 libsocket: lib libns1

564 basedeps: lib libmd libmp libns1 libnvpair libsocket
565 basedeps := TARGET=install

567 # The following dependencies don't need to be listed below as they are built
568 # before everything else:
569 # lib libmd libmp libns1 libnvpair libsocket
570 abi: libctf libmapmalloc libproc
571 audit_plugins: libbsm libsecdb libgss libmtmalloc
572 brand: libzonecfg libmapmalloc
573 cfgadm_plugins: libdevice libdevinfo libhotplug librcm hbaapi libkstat libscf
574 fm: libexacct libipmi libzfs scsi libdevinfo libdevid libcfgadm \
575     libcontract libsysevent ../cmd/sgs/libelf
576 $(SPARC_BLD)fm: libpri
577 gss_mechs/mech_dh: libgss

```

```

578 gss_mechs/mech_dummy: libgss
579 gss_mechs/mech_krb5: libgss libresolv2 pkcs11 libkstat
580 gss_mechs/mech_spnego: gss_mechs/mech_krb5
581 krb5: gss_mechs/mech_krb5 libtecla libldap5
582 libadt_jni: libbsm
583 libadutils: libldap5 libresolv2
584 libbe: libzfs libinstzones libuuid libgen libdevinfo libefi libfi
585 libbsm: libinetutil libscf libsecdb libtsol
586 libcfgadm: libdevinfo
587 libcmd: libsum libast
588 libcmdutils: libavl
589 libcpc: libpctx
590 libcrypt: libgen
591 libdevid: libdevinfo
592 libdevinfo: libsec libgen
593 libdhcagent: libdhcputil libuuid libdlpi libcontract
594 libdhcputil: libgen libinetutil libdlpi
595 libdiskmgt: libdevid libdevinfo libadm libefi libkstat libsysevent
596 $(INTEL_BLD)libdiskmgt: libfdisk
597 libdladm: libdevinfo libinetutil libscf librcm libexacct libkstat \
598     libpool
599 libdll: libast
600 libdlpi: libinetutil libdladm
601 libds: libsysevent
602 libdscfg: libnsctl libunistat libadm
603 libdtrace: libproc libgen libctf libmapmalloc
604 libdtrace_jni: libuutil libdtrace
605 libefi: libuuid
606 libelfsign: libcryptoutil libkmf ../cmd/sgs/libelf
607 libeti: libcurses
608 libexacct/demo: libexacct libproject
609 libfakekernel: libumem libcryptoutil
610 libfcoe: libldadm
611 libfi: libumem
612 libfru: libfruutils
613 libfsmgt: libkstat
614 libgrubmgt: libdevinfo libzfs libfstyp libefi
615 $(INTEL_BLD)libgrubmgt: libfdisk
616 libidmap: libavl libuutil
617 libinetsvc: libscf
618 libinstzones: libzonecfg libcontract
619 libipadm: libinetutil libdlpi libdhcagent libldadm libsecdb
620 libipmp: libinetutil
621 libipsecutil: libtecla libtsol
622 libiscsit: libstmf libuuid
623 libkmf: libcryptoutil pkcs11
624 libkvm: ../cmd/sgs/libelf
625 libldap5: libsas1
626 libmapid: libresolv2 libscf
627 libndmp: libscf
628 libnisdb: libldap5
629 libnwam: libscf libbsm libldadm
630 libpcp: libumem libdevinfo
631 libpctx: libproc
632 libpkg: libwanboot libscf libadm
633 libpool: libscf libexacct
634 libpp: libast
635 libproc: ../cmd/sgs/librtld_db ../cmd/sgs/libelf libctf
636 $(INTEL_BLD)libproc: libsaveargs
637 libproject: libpool libproc libsecdb
638 libprtdiag: libkstat
639 libprtdiag_psr: libprtdiag
640 libraidcfg: libdevinfo
641 librdc: libnsctl libunistat libdscfg
642 librestart: libuutil libscf libpool libproject libsecdb libsysevent
643 libsas1: libgss pkcs11

```

```

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

```

```

702 #
703 # The reason this rule checks for the existence of the
704 # Makefile is that some of the directories do not exist
705 # in certain situations (e.g., exportable source builds,
706 # OpenSolaris).
707 #

```

```

708 $(SUBDIRS): FRC
709     @if [ -f $@/Makefile ]; then \

```

```

710         cd $@; pwd; $(MAKE) $(TARGET); \
711     else \
712         true; \
713     fi
714
715 $(SUBDIRS:%=-nodepend):
716     @if [ -f $@:%-nodepend=%/Makefile ]; then \
717         cd $@:%-nodepend=%; pwd; $(MAKE) $(TARGET); \
718     else \
719         true; \
720     fi
721
722 FRC:

```

```

*****
2749 Tue Dec 6 18:25:57 2016
new/usr/src/lib/crt/amd64/mach-crt1.s
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright 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)

```

```

53  *       argc           0(%rsp)
54  *
55  * %rdx In a conforming program, this register contains a function
56  *       pointer that the application should register with atexit(BA_OS).
57  *       This function is used for shared object termination code
58  *       [see Dynamic Linking in Chapter 5 of the System V ABI].
59  *
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 Tue Dec 6 18:25:58 2016
new/usr/src/lib/crt/common/common-crt.c
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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 _start_crt_compiler
39 extern void _start_crt_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
```

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

2

```
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 _start_crt(int argc, char **argv, void (*exit_handler)(void))
61 {
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 (&_start_crt_compiler != NULL)
84         _start_crt_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/i86/mach-crt1.s

1

```
*****
2392 Tue Dec 6 18:25:58 2016
new/usr/src/lib/crt/i86/mach-crt1.s
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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11 * and limitations under the License.
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
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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/makectxt.c.
52     */
```

new/usr/src/lib/crt/i86/mach-crt1.s

2

```
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/makectxt.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 */
```

```

*****
1809 Tue Dec 6 18:25:59 2016
new/usr/src/lib/crt/sparc/mach-crt1.s
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****

```

```

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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>
21
22 .file "mach-crt1.s"
23
24 .global _start_crt
25
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  * | argv[0]
44  * | argv[1]
45  * | argv[2]
46  * | argv[3]
47  * | ...
48  * | argv[argc - 1]
49  * | -----
50  * | NULL
51  * | -----
52  * | envp[0]

```

```

53  * | envp[1]
54  * | envp[2]
55  * | envp[3]
56  * | ...
57  * | envp[N]
58  * | -----
59  * | NULL
60  * | -----
61  *
62  * and an exit handler from the linker is in %g1
63  */
64 clr %fp ! don't trace the stack past this point
65
66 add %sp, WINDOWSIZE + STACK_BIAS, %l0 ! address of argc
67
68 ! allocate a minimally sized frame, and align ourselves
69 add %sp, -SA(MINFRAME - EB_MAX_SIZE), %sp
70
71 ldn [%l0], %o0 ! argc
72 add %l0, CPTRSIZE, %o1 ! argv
73 call _start_crt
74 mov %g1, %o2 ! exit_handler in delay slot
75 SET_SIZE(_start)
76 #endif /* ! codereview */

```

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

1

```
*****
7201 Tue Dec 6 18:25:59 2016
new/usr/src/lib/libc/Makefile.targ
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #
27 # libc build rules
29 #
30 # This first rule picks up optimized sources for libc variants.
31 #
32 pics/%.o: $(OPTIMIZED_LIBCBASE)/gen/%.s
33     $(BUILD.s)
34     $(POST_PROCESS_O)
36 pics/%.o: $(LIBCBASE)/crt/%.c
37     $(COMPILE.c) -o $@ $<
38     $(POST_PROCESS_O)
40 pics/%.o: $(LIBCBASE)/crt/%.s
41     $(BUILD.s)
42     $(POST_PROCESS_O)
44 pics/%.o: $(LIBCBASE)/gen/%.c
45     $(COMPILE.c) -o $@ $<
46     $(POST_PROCESS_O)
48 pics/%.o: $(LIBCBASE)/gen/%.s
49     $(BUILD.s)
50     $(POST_PROCESS_O)
52 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/gen/%.s
```

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

2

```
53     $(BUILD.s)
54     $(POST_PROCESS_O)
56 pics/_stack_grow.o: $(LIBCBASE)/../$(TARGET_ARCH)/gen/_stack_grow.s
57     $(BUILD.s) $(LIBCBASE)/../$(TARGET_ARCH)/gen/_stack_grow.s
58     $(POST_PROCESS_O)
60 pics/%.o: $(LIBCBASE)/fp/%.c
61     $(COMPILE.c) -o $@ $<
62     $(POST_PROCESS_O)
64 pics/%.o: $(LIBCBASE)/../$(MACH)/fp/%.c
65     $(COMPILE.c) -o $@ $<
66     $(POST_PROCESS_O)
68 pics/%.o: $(LIBCBASE)/fp/%.s
69     $(BUILD.s)
70     $(POST_PROCESS_O)
72 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/fp/%.c
73     $(COMPILE.c) -o $@ $<
74     $(POST_PROCESS_O)
76 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/fp/%.s
77     $(BUILD.s)
78     $(POST_PROCESS_O)
80 pics/%.o: $(LIBCBASE)/sys/%.c
81     $(COMPILE.c) -o $@ $<
82     $(POST_PROCESS_O)
84 pics/%.o: $(LIBCBASE)/../common/sys/%.s
85     $(BUILD.s)
86     $(POST_PROCESS_O)
88 pics/%.o: $(LIBCBASE)/sys/%.s
89     $(BUILD.s)
90     $(POST_PROCESS_O)
92 pics/%.o: $(LIBCBASE)/../$(MACH)/sys/%.s
93     $(BUILD.s)
94     $(POST_PROCESS_O)
96 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/sys/%.c
97     $(COMPILE.c) -o $@ $<
98     $(POST_PROCESS_O)
100 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/sys/%.s
101     $(BUILD.s)
102     $(POST_PROCESS_O)
104 # rules to build large file aware objects (xxx64.o from xxx.s or xxx.c)
106 pics/%64.o: $(LIBCBASE)/../common/sys/%.s
107     $(BUILD.s)
108     $(POST_PROCESS_O)
110 pics/%64.o: $(LIBCBASE)/sys/%.s
111     $(BUILD.s)
112     $(POST_PROCESS_O)
114 pics/%64.o: $(LIBCBASE)/gen/%.c
115     $(COMPILE.c) -o $@ $<
116     $(POST_PROCESS_O)
118 pics/%64.o: $(LIBCBASE)/../port/gen/%.c
```

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

3

```

119     $(COMPILE.c) -o $@ $<
120     $(POST_PROCESS_O)

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

126 pics/%64.o: $(LIBCBASE)/../port/print/%.c
127     $(COMPILE.c) -o $@ $<
128     $(POST_PROCESS_O)

130 pics/%64.o: $(LIBCBASE)/../port/regex/%.c
131     $(COMPILE.c) -DM_I18N_MB -DI18N \
132     -I$(LIBCBASE)/../port/regex \
133     -I$(LIBCBASE)/../port/gen -o $@ $<
134     $(POST_PROCESS_O)

136 pics/%64.o: $(LIBCBASE)/../port/stdio/%.c
137     $(COMPILE.c) -o $@ $<
138     $(POST_PROCESS_O)

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

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

148 pics/%_pos.o: $(LIBCBASE)/../port/il8n/%.c
149     $(COMPILE.c) -o $@ $<
150     $(POST_PROCESS_O)

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

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

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

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

166 pics/%.o: $(LIBCBASE)/../port/fp/%.c
167     $(COMPILE.c) \
168     -I$(LIBCBASE)/../port/fp -o $@ $<
169     $(POST_PROCESS_O)

171 pics/%.o: $(LIBCBASE)/../port/il8n/%.c
172     $(COMPILE.c) \
173     -I$(LIBCBASE)/../port/il8n -o $@ $<
174     $(POST_PROCESS_O)

176 # gen rules
177 pics/%.o %.o: $(LIBCBASE)/../port/gen/%.c
178     $(COMPILE.c) -o $@ $<
179     $(POST_PROCESS_O)

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

```

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

4

```

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

191 # regex rules
192 pics/%.o: $(LIBCBASE)/../port/regex/%.c
193     $(COMPILE.c) -DM_I18N_MB -DI18N \
194     -I$(LIBCBASE)/../port/regex \
195     -I$(LIBCBASE)/../port/gen -o $@ $<
196     $(POST_PROCESS_O)

198 # stdio rules
199 pics/%.o: $(LIBCBASE)/../port/stdio/%.c
200     $(COMPILE.c) -o $@ $<
201     $(POST_PROCESS_O)

203 # c89 print, stdio rules
204 pics/%_c89.o: $(LIBCBASE)/../port/print/%.c
205     $(COMPILE.c) -o $@ $<
206     $(POST_PROCESS_O)

208 pics/%_c89.o: $(LIBCBASE)/../port/stdio/%.c
209     $(COMPILE.c) -o $@ $<
210     $(POST_PROCESS_O)

212 # aio rules
213 pics/%.o: $(LIBCBASE)/../port/aio/%.c
214     $(COMPILE.c) -o $@ $<
215     $(POST_PROCESS_O)

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

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

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

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

236 pics/%.o: $(LIBCBASE)/threads/%.s
237     $(BUILD.s)
238     $(POST_PROCESS_O)

240 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/threads/%.c
241     $(COMPILE.c) -o $@ $<
242     $(POST_PROCESS_O)

244 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/threads/%.s
245     $(BUILD.s)
246     $(POST_PROCESS_O)

248 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/unwind/%.c
249     $(COMPILE.c) -o $@ $<
250     $(POST_PROCESS_O)

```

```
252 pics/%.o: $(LIBCBASE)/../$(TARGET_ARCH)/unwind/%.s
253     $(BUILD.s)
254     $(POST_PROCESS_O)

256 pics/%.o: $(LIBCBASE)/../port/unwind/%.c
257     $(COMPILE.c) -o $@ $<
258     $(POST_PROCESS_O)

260 pics/%.o: $(LIBCBASE)/../$(MACH)/unwind/%.s
261     $(BUILD.s)
262     $(POST_PROCESS_O)

264 pics/%.o: $(LIBCBASE)/../port/sys/%.c
265     $(COMPILE.c) -o $@ $<
266     $(POST_PROCESS_O)

268 pics/%.o: $(LIBCBASE)/../../crt/common/%.c
268 pics/%.o: $(LIBCBASE)/../../common/common/%.c
269     $(COMPILE.c) -o $@ $<
270     $(POST_PROCESS_O)

272 pics/%.o: $(LIBCBASE)/$(CRTSRCS)/%.s
273     $(BUILD.s)
274     $(POST_PROCESS_O)

276 # $(SRC)/common rules
277 pics/%.o: $(SRC)/common/atomic/$(TARGETMACH)/%.s
278     $(BUILD.s)
279     $(POST_PROCESS_O)

281 $(COMOBSJS:%=pics/%): $(SRC)/common/utl/$(@F:.o=.c)
282     $(COMPILE.c) -o $@ $(SRC)/common/utl/$(@F:.o=.c)
283     $(POST_PROCESS_O)

285 $(XATTROBSJS:%=pics/%): $(SRC)/common/xattr/$(@F:.o=.c)
286     $(COMPILE.c) -o $@ $(SRC)/common/xattr/$(@F:.o=.c)
287     $(POST_PROCESS_O)

289 $(DTRACEOBSJS:%=pics/%): $(SRC)/common/dtrace/$(@F:.o=.c)
290     $(COMPILE.c) -o $@ $(SRC)/common/dtrace/$(@F:.o=.c)
291     $(POST_PROCESS_O)

293 $(SECFLAGSOBSJS:%=pics/%): $(SRC)/common/secflags/$(@F:.o=.c)
294     $(COMPILE.c) -o $@ $(SRC)/common/secflags/$(@F:.o=.c)
295     $(POST_PROCESS_O)

297 $(UNICODEOBSJS:%=pics/%): $(SRC)/common/unicode/$(@F:.o=.c)
298     $(COMPILE.c) -o $@ $(SRC)/common/unicode/$(@F:.o=.c)
299     $(POST_PROCESS_O)

301 $(CHACHAOBSJS:%=pics/%): $(SRC)/common/crypto/chacha/$(@F:.o=.c)
302     $(COMPILE.c) -I$(SRC)/common/crypto/chacha -DKEYSTREAM_ONLY \
303     -o $@ $(SRC)/common/crypto/chacha/$(@F:.o=.c)
304     $(POST_PROCESS_O)

306 # DTrace rules
307 pics/%.o: $(LIBCBASE)/../port/threads/%.d $(THREASOBSJS:%=pics/%)
308     $(COMPILE.d) -C -xlazyload -s $< -o $@ $(THREASOBSJS:%=pics/%)
309     $(POST_PROCESS_O)

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

```

*****
23022 Tue Dec 6 18:26:00 2016
new/usr/src/lib/libc/amd64/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2004, 2010, Oracle and/or its affiliates. All rights reserved.
23 # Copyright 2016 Joyent, Inc.
24 #
25 # Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved.
26 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
27 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
28 # Use is subject to license terms.
29 #

31 LIBCBASE=      .
32 LIBCDIR=       ${SRC}/lib/libc
33 LIBRARY=       libc.a
34 LIB_PIC=       libc_pic.a
35 VERS=         .1
36 CPP=          /usr/lib/cpp
37 TARGET_ARCH=   amd64

39 # objects are grouped by source directory

41 # local objects
42 STRETS=

44 CRTOBSJ=      \
45     cerror.o

47 DYNOBJS=

49 FPOBJS=       \
50     fpgetmask.o \
51     fpgetround.o \
52     fpsetmask.o \

```

```

53     fpsetround.o \
54     fpstart.o \
55     ieee.o

57 I386FPOBJS=   \
58     _D_cplx_div.o \
59     _D_cplx_div_ix.o \
60     _D_cplx_div_rx.o \
61     _D_cplx_lr_div.o \
62     _D_cplx_lr_div_ix.o \
63     _D_cplx_lr_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_lr_div.o \
69     _F_cplx_lr_div_ix.o \
70     _F_cplx_lr_div_rx.o \
71     _F_cplx_mul.o \
72     _X_cplx_div.o \
73     _X_cplx_div_ix.o \
74     _X_cplx_div_rx.o \
75     _X_cplx_lr_div.o \
76     _X_cplx_lr_div_ix.o \
77     _X_cplx_lr_div_rx.o \
78     _X_cplx_mul.o

80 FPASMOBJS=    \
81     __xgetRD.o \
82     _xtoll.o \
83     _xtoull.o \
84     _base_il.o \
85     fpcw.o \
86     fpgetsticky.o \
87     fpsetsticky.o

89 ATOMICOBJS=  \
90     atomic.o

92 CHACHAOBJS=   \
93     chacha.o

95 KATTROBJS=    \
96     xattr_common.o

97 COMOBJS=      \
98     bcmp.o \
99     bcopy.o \
100    bsearch.o \
101    bzero.o \
102    qsort.o \
103    strtol.o \
104    strtoul.o \
105    strtoll.o \
106    strtoull.o

108 GENOBJS=      \
109    _getsp.o \
110    abs.o \
111    alloca.o \
112    arc4random.o \
113    arc4random_uniform.o \
114    attrat.o \
115    byteorder.o \
116    cuexit.o \
117    ecvt.o \
118    endian.o \

```

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

```

119      errlst.o          \
120      amd64_data.o     \
121      ldivide.o        \
122      lock.o           \
123      makecxtxt.o     \
124      memccpy.o        \
125      memchr.o         \
126      memcmp.o         \
127      memcpy.o        \
128      memset.o        \
129      new_list.o       \
130      proc64_id.o      \
131      proc64_support.o \
132      setjmp.o         \
133      siginfolst.o    \
134      siglongjmp.o    \
135      strcmp.o        \
136      strcpy.o        \
137      strlen.o        \
138      strncmp.o       \
139      strncpy.o       \
140      strnlen.o       \
141      sync_instruction_memory.o

```

```

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

```

```

147 SYSOBSJS64=

```

```

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

```

3

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

```

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

```

4

```

251     resolvepath.o  \
252     seteguid.o     \
253     setgid.o       \
254     setgroups.o    \
255     setitimer.o    \
256     setreid.o      \
257     setrlimit.o    \
258     setuid.o        \
259     sigaltstk.o    \
260     sigprocmsk.o   \
261     sigsendset.o   \
262     sigsuspend.o   \
263     statfs.o        \
264     statvfs.o      \
265     stty.o          \
266     sync.o          \
267     sysconfig.o    \
268     sysfs.o         \
269     sysinfo.o       \
270     syslwp.o        \
271     times.o         \
272     ulimit.o        \
273     umask.o         \
274     umount2.o       \
275     utssys.o        \
276     uucopy.o        \
277     vhangup.o       \
278     waitid.o        \
279     write.o         \
280     writev.o        \
281     yield.o         \
\
283 SYSOBJS= \
284     __clock_gettime.o \
285     __getcontext.o    \
286     __uadmin.o        \
287     __lwp_mutex_unlock.o \
288     __stack_grow.o    \
289     door.o            \
290     forkx.o           \
291     forkallx.o        \
292     getcontext.o      \
293     gettimeofday.o   \
294     lwp_private.o     \
295     nuname.o          \
296     syscall.o         \
297     sysi86.o          \
298     tls_get_addr.o   \
299     uadmin.o          \
300     umount.o          \
301     uname.o           \
302     vforkx.o          \
\
304 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
305 # This macro should ALWAYS be empty; native APIs are already 'large file'.
306 PORTGEN64=
\
308 # objects from source under $(LIBCDIR)/port
309 PORTFP= \
310     __flt_decim.o     \
311     __flt_rounds.o    \
312     __tbl_10_b.o      \
313     __tbl_10_h.o      \
314     __tbl_10_s.o      \
315     __tbl_2_b.o       \
316     __tbl_2_h.o       \

```

```

317     __tbl_2_s.o       \
318     __tbl_fdq.o       \
319     __tbl_tens.o      \
320     __x_power.o       \
321     _base_sup.o       \
322     aconvert.o        \
323     decimal_bin.o     \
324     double_decim.o    \
325     econvert.o        \
326     fconvert.o        \
327     file_decim.o      \
328     finite.o          \
329     fp_data.o         \
330     func_decim.o      \
331     gconvert.o        \
332     hex_bin.o         \
333     ieee_globals.o    \
334     pack_float.o      \
335     sigfpe.o          \
336     string_decim.o    \
\
338 PORTGEN= \
339     _env_data.o       \
340     _xftw.o           \
341     a64l.o            \
342     abort.o           \
343     addsev.o          \
344     ascii_strcasecmp.o \
345     ascii_strncasecmp.o \
346     assert.o          \
347     atof.o            \
348     atoi.o            \
349     atol.o            \
350     atoll.o           \
351     attropen.o        \
352     atexit.o          \
353     atfork.o          \
354     basename.o        \
355     calloc.o          \
356     catgets.o         \
357     catopen.o         \
358     cfgetispeed.o    \
359     cfgetospeed.o    \
360     cfree.o           \
361     cfsetispeed.o    \
362     cfsetospeed.o    \
363     cftime.o          \
364     clock.o           \
365     closedir.o        \
366     closefrom.o       \
367     confstr.o         \
368     crypt.o           \
369     csetlen.o         \
370     ctime.o           \
371     ctime_r.o         \
372     daemon.o          \
373     deflt.o           \
374     directio.o        \
375     dirname.o         \
376     div.o             \
377     drand48.o         \
378     dup.o             \
379     env_data.o        \
380     err.o             \
381     errno.o           \
382     euclen.o          \

```



```

383     event_port.o      \|
384     execvp.o          \|
385     explicit_bzero.o \|
386     fattach.o         \|
387     fdetach.o         \|
388     fdopendir.o       \|
389     ffs.o             \|
390     flock.o           \|
391     fls.o             \|
392     fmsg.o            \|
393     ftime.o           \|
394     ftok.o            \|
395     ftw.o             \|
396     gcvt.o            \|
397     getauxv.o         \|
398     getcwd.o          \|
399     getdate_err.o    \|
400     getdtblsize.o    \|
401     getentropy.o     \|
402     getenv.o          \|
403     getexecname.o    \|
404     getgrnam.o        \|
405     getgrnam_r.o     \|
406     gethostid.o      \|
407     gethostname.o    \|
408     gethz.o           \|
409     getisax.o         \|
410     getloadavg.o     \|
411     getlogin.o        \|
412     getmntent.o      \|
413     getnetgrent.o    \|
414     get_nprocs.o     \|
415     getopt.o          \|
416     getopt_long.o    \|
417     getpagesize.o    \|
418     getpw.o           \|
419     getpwnam.o        \|
420     getpwnam_r.o     \|
421     getrusage.o       \|
422     getspent.o        \|
423     getspent_r.o     \|
424     getsubopt.o       \|
425     gettxt.o          \|
426     getusershell.o  \|
427     getut.o           \|
428     getutx.o          \|
429     getvfsent.o       \|
430     getwd.o           \|
431     getwidth.o        \|
432     getxby_door.o    \|
433     gtxt.o            \|
434     hsearch.o         \|
435     iconv.o           \|
436     imaxabs.o         \|
437     imaxdiv.o         \|
438     index.o           \|
439     initgroups.o     \|
440     insque.o          \|
441     isaexec.o         \|
442     isastream.o       \|
443     isatty.o          \|
444     killpg.o          \|
445     klpdlb.o          \|
446     l64a.o            \|
447     lckpww.o         \|
448     lconstants.o     \|

```

```

449     lexp10.o          \|
450     lfind.o           \|
451     lfmt.o            \|
452     lfmt_log.o        \|
453     lldiv.o           \|
454     llog10.o          \|
455     ltostr.o          \|
456     lmath.o           \|
457     localtime.o      \|
458     lsearch.o         \|
459     madvise.o         \|
460     malloc.o          \|
461     memalign.o        \|
462     memmem.o          \|
463     mkdev.o           \|
464     mkdtemp.o         \|
465     mkfifo.o          \|
466     mkstemp.o         \|
467     mktemp.o          \|
468     mlock.o           \|
469     mlockall.o        \|
470     mon.o             \|
471     msync.o           \|
472     munlock.o         \|
473     munlockall.o     \|
474     ndbm.o            \|
475     nftw.o            \|
476     nlspace_checks.o \|
477     nsparse.o         \|
478     nss_common.o      \|
479     nss_dbdefs.o      \|
480     nss_deffinder.o   \|
481     opendir.o         \|
482     opt_data.o        \|
483     perror.o          \|
484     pfmt.o            \|
485     pfmt_data.o       \|
486     pfmt_print.o     \|
487     pipe.o            \|
488     plock.o           \|
489     poll.o            \|
490     posix_fadvise.o   \|
491     posix_fallocate.o \|
492     posix_madvise.o   \|
493     posix_memalign.o  \|
494     priocntl.o        \|
495     privlib.o         \|
496     priv_str_xlate.o  \|
497     psecflags.o       \|
498     psiginfo.o        \|
499     psignal.o         \|
500     pt.o              \|
501     putpwent.o        \|
502     putsptent.o       \|
503     raise.o           \|
504     rand.o            \|
505     random.o          \|
506     rctlops.o         \|
507     readdir.o         \|
508     readdir_r.o       \|
509     realpath.o        \|
510     reboot.o          \|
511     regexpr.o         \|
512     remove.o          \|
513     rewinddir.o       \|
514     rindex.o          \|

```

```

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

```

```

581     vlfmt.o           \
582     vpfmt.o          \
583     waitpid.o        \
584     walkstack.o      \
585     wdata.o          \
586     xgetwidth.o      \
587     xpg4.o           \
588     xpg6.o           \
590     PORTPRINT_W=     \
591         doprnt_w.o   \
593     PORTPRINT=       \
594         asprintf.o   \
595         doprnt.o     \
596         fprintf.o    \
597         printf.o     \
598         snprintf.o   \
599         sprintf.o    \
600         vfprintf.o   \
601         vprintf.o    \
602         vsnprintf.o  \
603         vsprintf.o   \
604         vwprintf.o   \
605         wprintf.o    \
607 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
608 # This macro should ALWAYS be empty; native APIs are already 'large file'.
609 PORTSTDIO64=
611     PORTSTDIO_W=     \
612         doscan_w.o   \
614     PORTSTDIO=       \
615         __extensions.o \
616         __endopen.o   \
617         __filbuf.o    \
618         __findbuf.o   \
619         __flsbuf.o    \
620         __wrtchk.o    \
621         clearerr.o    \
622         ctermid.o     \
623         ctermid_r.o   \
624         cuserid.o     \
625         data.o        \
626         doscan.o      \
627         fdopen.o      \
628         feof.o        \
629         ferror.o      \
630         fgetc.o       \
631         fgets.o       \
632         fileno.o      \
633         flockf.o      \
634         flush.o       \
635         fopen.o       \
636         fpos.o        \
637         fputc.o       \
638         fputs.o       \
639         fread.o       \
640         fseek.o       \
641         fseeko.o      \
642         ftell.o       \
643         ftello.o      \
644         fwrite.o      \
645         getc.o        \
646         getchar.o     \

```

```

647      getline.o      \
648      getpass.o      \
649      gets.o          \
650      getw.o          \
651      mse.o           \
652      popen.o         \
653      putc.o           \
654      putchar.o       \
655      puts.o           \
656      putw.o           \
657      rewind.o        \
658      scanf.o         \
659      setbuf.o         \
660      setbuffer.o     \
661      setvbuf.o       \
662      system.o        \
663      tempnam.o       \
664      tmpfile.o       \
665      tmpnam_r.o      \
666      ungetc.o        \
667      vscanf.o        \
668      vwscanf.o       \
669      wscanf.o        \
\
671 PORTI18N=          \
672      getwchar.o      \
673      putwchar.o     \
674      puts.o           \
675      strtows.o       \
676      wcsnlen.o       \
677      wcsstr.o        \
678      wcstoimax.o    \
679      wcstol.o        \
680      wcstoul.o       \
681      wcs wcs.o       \
682      wmemchr.o       \
683      wmemcmp.o       \
684      wmemcpy.o       \
685      wmemmove.o     \
686      wmemset.o       \
687      wscat.o         \
688      wscr.o          \
689      wscmp.o         \
690      wscpy.o         \
691      wscspn.o        \
692      wsdup.o         \
693      wslen.o         \
694      wsncat.o        \
695      wsncmp.o        \
696      wsncpy.o        \
697      wspbrk.o        \
698      vsprintf.o      \
699      wsrchr.o        \
700      wsscanf.o       \
701      wssp.o          \
702      wstod.o         \
703      wstok.o         \
704      wstol.o         \
705      wstoll.o        \
706      wxfrm.o         \
707      gettext.o       \
708      gettext_gnu.o   \
709      gettext_real.o  \
710      gettext_util.o  \
711      plural_parser.o \
712      wdresolve.o     \

```

```

713      _ctype.o        \
714      isascii.o       \
715      toascii.o       \
\
717 PORTI18N_COND=     \
718      wcstol_longlong.o \
719      wcstoul_longlong.o \
\
721 PORTLOCALE=        \
722      big5.o           \
723      btowc.o          \
724      collate.o        \
725      collcmp.o        \
726      euc.o            \
727      fnmatch.o        \
728      fgetwc.o         \
729      fgetws.o         \
730      fix_grouping.o   \
731      fputwc.o         \
732      fputws.o         \
733      fwide.o          \
734      gb18030.o        \
735      gb2312.o         \
736      gbk.o           \
737      getdate.o        \
738      isdigit.o        \
739      iswctype.o       \
740      ldp.o            \
741      lmessages.o      \
742      lnumeric.o       \
743      lmonetary.o      \
744      localeconv.o     \
745      localeimpl.o     \
746      mbftowc.o        \
747      mblen.o          \
748      mbrlen.o         \
749      mbrtowc.o        \
750      mbsinit.o        \
751      mbsnrtowcs.o     \
752      mbsrtowcs.o     \
753      mbstowcs.o       \
754      mbtowc.o         \
755      mskanji.o        \
756      nextwctype.o     \
757      nl_langinfo.o    \
758      none.o           \
759      regcomp.o        \
760      regfree.o        \
761      regerror.o       \
762      regexec.o        \
763      rune.o           \
764      runetype.o       \
765      setlocale.o      \
766      setrunelocale.o  \
767      strcasecmp.o     \
768      strcasestr.o     \
769      strcoll.o        \
770      strfmon.o        \
771      strftime.o      \
772      strncasecmp.o    \
773      strtptime.o      \
774      strxfrm.o        \
775      table.o          \
776      timelocal.o     \
777      tolower.o        \
778      towlower.o       \

```

```

779      ungetwc.o      \
780      utf8.o        \
781      wcrtoomb.o    \
782      wcscasecmp.o  \
783      wscoll.o      \
784      wcsftime.o   \
785      wcsnrtoombs.o \
786      wcsrtoombs.o \
787      wcswidth.o   \
788      wcstombs.o   \
789      wcsxfrm.o    \
790      wctob.o      \
791      wctomb.o     \
792      wctrans.o    \
793      wctype.o     \
794      wcwidth.o   \
795      wscoll.o     \

797 AIOOBS=      \
798      aio.o       \
799      aio_alloc.o \
800      posix_aio.o \

802 RTOBS=      \
803      clock_timer.o \
804      mqueue.o     \
805      pos4obj.o   \
806      sched.o     \
807      sem.o       \
808      shm.o       \
809      sigev_thread.o \

811 SECFLAGSOBS= \
812      secflags.o \

814 TPOOLOBS=   \
815      thread_pool.o \

817 THREADSOBS= \
818      alloc.o     \
819      assfail.o   \
820      cli_thr.o   \
821      cancel.o    \
822      door_calls.o \
823      tmem.o      \
824      pthr_attr.o \
825      pthr_barrier.o \
826      pthr_cond.o \
827      pthr_mutex.o \
828      pthr_rwlock.o \
829      pthread.o   \
830      rwlock.o   \
831      scalls.o    \
832      sema.o     \
833      sigaction.o \
834      spawn.o    \
835      synch.o    \
836      tdb_agent.o \
837      thr.o      \
838      thread_interface.o \
839      tls.o     \
840      tsd.o     \

842 THREADSMACHOBS= \
843      machdep.o

```

```

845 THREADSASMOBS= \
846      asm_subr.o \

848 UNICODOBS=      \
849      u8_textprep.o \
850      uconv.o     \

852 UNWINDMACHOBS= \
853      call_frame_inst.o \
854      eh_frame.o   \
855      thrp_unwind.o \
856      unwind.o     \

858 pics/unwind.o:= COPTFLAG64 =

860 UNWINDASMOBS=  \
861      unwind_frame.o \

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

867 PORTSYS=      \
868      _autofssys.o \
869      access.o     \
870      acctctl.o   \
871      bsd_signal.o \
872      chmod.o     \
873      chown.o     \
874      corectl.o   \
875      epoll.o     \
876      exacctsyst.o \
877      execl.o     \
878      execl.o     \
879      execv.o     \
880      eventfd.o   \
881      fcntl.o     \
882      getpagesizes.o \
883      getpeerucrd.o \
884      inst_sync.o \
885      issetugid.o \
886      label.o     \
887      link.o      \
888      lockf.o     \
889      lwp.o       \
890      lwp_cond.o  \
891      lwp_rwlock.o \
892      lwp_sigmask.o \
893      meminfosyst.o \
894      mkdir.o     \
895      mknod.o     \
896      msgsys.o   \
897      nfssyst.o  \
898      open.o     \
899      pgrpsyst.o \
900      posix_sigwait.o \
901      ppriv.o    \
902      psetsyst.o \
903      rctlsyst.o \
904      readlink.o \
905      rename.o   \
906      sbrk.o     \
907      semsyst.o  \
908      set_errno.o \
909      sharefs.o  \
910      shmsyst.o

```

```

911      sidsys.o          \
912      siginterrupt.o   \
913      signal.o         \
914      signalfd.o       \
915      sigpending.o     \
916      sigstack.o       \
917      stat.o           \
918      symlink.o        \
919      tasksys.o        \
920      time.o           \
921      time_util.o      \
922      timerfd.o        \
923      ucontext.o       \
924      unlink.o         \
925      ustat.o          \
926      utimesys.o      \
927      zone.o           \
\
929 PORTREGEX=          \
930      glob.o           \
931      regcmp.o         \
932      regex.o          \
933      wordexp.o        \
\
935 VALUES=            \
936      values-Xa.o     \
\
938 MOSTOBSJS=          \
939      $(STRETS)        \
940      $(CRTOBSJS)      \
941      $(DYNOBJS)       \
942      $(FPOBJS)        \
943      $(I386FPOBJS)   \
944      $(FPASMOBJS)    \
945      $(ATOMICOBJS)   \
946      $(CHACHAOBJS)   \
947      $(XATTROBJS)    \
948      $(COMOBJS)      \
949      $(GENOBJS)       \
950      $(PORTFP)        \
951      $(PORTGEN)       \
952      $(PORTGEN64)     \
953      $(PORTI18N)     \
954      $(PORTI18N_COND) \
955      $(PORTLOCALE)    \
956      $(PORTPRINT)    \
957      $(PORTPRINT_W)  \
958      $(PORTREGEX)     \
959      $(PORTSTDIO)     \
960      $(PORTSTDIO64)  \
961      $(PORTSTDIO_W)  \
962      $(PORTSYS)      \
963      $(PORTSYS64)    \
964      $(AIOOBJS)      \
965      $(RTOBJS)        \
966      $(SECFLAGSOBJS) \
967      $(TPOOLBJS)     \
968      $(THREADSOBJS)  \
969      $(THREADSMACHOBJS) \
970      $(THREADSASMOBJS) \
971      $(UNICODEOBJS)  \
972      $(UNWINDMACHOBJS) \
973      $(UNWINDASMOBJS) \
974      $(COMSYSOBSJS)  \
975      $(SYSOBJS)      \
976      $(COMSYSOBSJS64) \

```

```

977      $(SYSOBJS64)    \
978      $(VALUES)       \
\
980 TRACEOBSJS=         \
981      plockstat.o     \
\
983 # NOTE: libc.so.1 must be linked with the minimal crti.o and crtn.o
984 # modules whose source is provided in the $(SRC)/lib/crt directory.
985 # This must be done because otherwise the Sun C compiler would insert
986 # its own versions of these modules and those versions contain code
987 # to call out to C++ initialization functions. Such C++ initialization
988 # functions can call back into libc before thread initialization is
989 # complete and this leads to segmentation violations and other problems.
990 # Since libc contains no C++ code, linking with the minimal crti.o and
991 # crtn.o modules is safe and avoids the problems described above.
992 OBJECTS= $(CRTI) $(MOSTOBSJS) $(CRTN)
993 CRTSRCS= ../../crt/amd64
994 CRTSRCS= ../../common/amd64
\
995 # include common library definitions
996 include ../../Makefile.lib
997 include ../../Makefile.lib.64
\
999 CFLAGS64 += $(CTF_FLAGS)
\
1001 # This is necessary to avoid problems with calling _ex_unwind().
1002 # We probably don't want any inlining anyway.
1003 CFLAGS64 += -xinline=
\
1005 CERRWARN += -_gcc=-Wno-parentheses
1006 CERRWARN += -_gcc=-Wno-switch
1007 CERRWARN += -_gcc=-Wno-uninitialized
1008 CERRWARN += -_gcc=-Wno-unused-value
1009 CERRWARN += -_gcc=-Wno-unused-label
1010 CERRWARN += -_gcc=-Wno-unused-variable
1011 CERRWARN += -_gcc=-Wno-type-limits
1012 CERRWARN += -_gcc=-Wno-char-subscripts
1013 CERRWARN += -_gcc=-Wno-clobbered
1014 CERRWARN += -_gcc=-Wno-unused-function
1015 CERRWARN += -_gcc=-Wno-address
\
1017 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1018 # enables ASSERT() checking in the threads portion of the library.
1019 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1020 THREAD_DEBUG =
1021 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG
\
1023 # Make string literals read-only to save memory
1024 CFLAGS64 += $(XSTRCONST)
\
1026 ALTPICS= $(TRACEOBSJS:%=pics%)
\
1028 $(DYNLIB) := BUILD.SO = $(LD) -o $$@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)
\
1030 MAPFILES =          $(LIBCDIR)/port/mapfile-vers
\
1032 CPPFLAGS=           -D_REENTRANT -D$(MACH64) -D_$(MACH64) $(THREAD_DEBUG) \
1033                     -I. -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1034 ASFLAGS=             $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(CPPFLAGS) \
1035                     $(amd64_AS_XARCH)
\
1037 # As a favor to the dtrace syscall provider, libc still calls the
1038 # old syscall traps that have been obsoleted by the *at() interfaces.
1039 # Delete this to compile libc using only the new *at() system call traps
1040 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

```

```

1042 # proc64_id.o is built with defines in $(SRC)/uts/intel/sys/x86_archext.h
1043 pics/proc64_id.o      := CFLAGS64 += -I$(SRC)/uts/intel

1045 # Inform the run-time linker about libc specialized initialization
1046 RTLDINFO =           -z rtldinfo=tls_rtldinfo
1047 DYNFLAGS +=         $(RTLDINFO)

1049 # Force libc's internal references to be resolved immediately upon loading
1050 # in order to avoid critical region problems.  Since almost all libc symbols
1051 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1052 DYNFLAGS +=         -znov

1054 BUILD.s=            $(AS) $(ASFLAGS) $< -o $@

1056 # Override this top level flag so the compiler builds in its native
1057 # C99 mode.  This has been enabled to support the complex arithmetic
1058 # added to libc.
1059 C99MODE=             $(C99_ENABLE)

1061 # libc method of building an archive
1062 # The "$(GREP) -v ' L '" part is necessary only until
1063 # lorder is fixed to ignore thread-local variables.
1064 BUILD.AR= $(RM) $@ ; \
1065           $(AR) q $@ `$(LORDER) $(MOSTOBSJS:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1067 # extra files for the clean target
1068 CLEANFILES=         \
1069           $(LIBCDIR)/port/gen/errlst.c  \
1070           $(LIBCDIR)/port/gen/new_list.c \
1071           assym.h \
1072           genassym \
1073           crt/_rtld.s \
1074           pics/crti.o \
1075           pics/crtn.o \
1076           $(ALTPICS)

1078 CLOBBERFILES += $(LIB_PIC)

1080 # list of C source for lint
1081 SRCS=
1082     $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1083     $(XATTROBJS:%.o=$(SRC)/common/xattr/%.c) \
1084     $(COMOBJS:%.o=$(SRC)/common/util/%.c) \
1085     $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1086     $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1087     $(PORTI18N:%.o=$(LIBCDIR)/port/il8n/%.c) \
1088     $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \
1089     $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1090     $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1091     $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1092     $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1093     $(AIOBJS:%.o=$(LIBCDIR)/port/aio/%.c) \
1094     $(RTOBJS:%.o=$(LIBCDIR)/port/rt/%.c) \
1095     $(SECFLAGSOBJS:%.o=$(SRC)/common/secflags/%.c) \
1096     $(TPOOLBJS:%.o=$(LIBCDIR)/port/tpool/%.c) \
1097     $(THREADSOBJS:%.o=$(LIBCDIR)/port/threads/%.c) \
1098     $(THREADSMACHOBJS:%.o=threads/%.c) \
1099     $(UNICODEOBJS:%.o=$(SRC)/common/unicode/%.c) \
1100     $(UNWINDMACHOBJS:%.o=unwind/%.c) \
1101     $(FPOBJS:%.o=fp/%.c) \
1102     $(I386FPOBJS:%.o=$(LIBCDIR)/i386/fp/%.c) \
1103     $(LIBCBASE)/gen/ecvt.c \
1104     $(LIBCBASE)/gen/makeectxt.c \
1105     $(LIBCBASE)/gen/signfolst.c \
1106     $(LIBCBASE)/gen/siglongjmp.c

```

```

1107     $(LIBCBASE)/gen/sync_instruction_memory.c \
1108     $(LIBCBASE)/sys/uadmin.c

1110 # conditional assignments
1111 # $(DYNLIB) $(LIB_PIC) := DYNOBJS = _rtbootld.o
1112 # $(DYNLIB) := CRTI = crt.i.o
1113 # $(DYNLIB) := CRTN = crtn.o

1115 # Files which need the threads .il inline template
1116 TIL=
1117     aio.o \
1118     alloc.o \
1119     assfail.o \
1120     atexit.o \
1121     atfork.o \
1122     cancel.o \
1123     door_calls.o \
1124     err.o \
1125     errno.o \
1126     lwp.o \
1127     ma.o \
1128     machdep.o \
1129     posix_aio.o \
1130     pthr_attr.o \
1131     pthr_barrier.o \
1132     pthr_cond.o \
1133     pthr_mutex.o \
1134     pthr_rwlock.o \
1135     pthread.o \
1136     rand.o \
1137     rwlock.o \
1138     scalls.o \
1139     sched.o \
1140     sema.o \
1141     sigaction.o \
1142     sigev_thread.o \
1143     spawn.o \
1144     stack.o \
1145     synch.o \
1146     tdb_agent.o \
1147     thr.o \
1148     thread_interface.o \
1149     thread_pool.o \
1150     thrp_unwind.o \
1151     tls.o \
1152     tmem.o \
1153     tsd.o

1155 $(TIL:%=pics/%) := CFLAGS64 += $(LIBCBASE)/threads/amd64.il

1157 # pics/mul64.o := CFLAGS64 += crt/mul64.il

1159 # large-file-aware components that should be built large

1161 #$(COMSYSOBSJS64:%=pics/%) := \
1162 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1164 #$(SYSOBSJS64:%=pics/%) := \
1165 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1167 #$(PORTGEN64:%=pics/%) := \
1168 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1170 #$(PORTSTDIO64:%=pics/%) := \
1171 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

```

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

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```

1173 #$(PORTSYS64:=%=pics/%) := \
1174 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1176 $(PORTSTDIO_W:=%=pics/%) := \
1177 CPPFLAGS += -D_WIDE

1179 $(PORTPRINT_W:=%=pics/%) := \
1180 CPPFLAGS += -D_WIDE

1182 $(PORTPRINT_C89:=%=pics/%) := \
1183 CPPFLAGS += -D_C89_INTMAX32

1185 $(PORTSTDIO_C89:=%=pics/%) := \
1186 CPPFLAGS += -D_C89_INTMAX32

1188 $(PORTI18N_COND:=%=pics/%) := \
1189 CPPFLAGS += -D_WCS_LOGLONG

1191 pics/arc4random.o := CPPFLAGS += -I$(SRC)/common/crypto/chacha

1193 .KEEP_STATE:

1195 all: $(LIBS) $(LIB_PIC)

1197 lint := CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1198 lint := CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1199 lint := LINTFLAGS64 += -mn -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED

1201 lint:
1202 @echo $(LINT.c) ... $(LDLIBS)
1203 @$$(LINT.c) $(SRCS) $(LDLIBS)

1205 $(LINTLIB):= SRCS=$(LIBCDIR)/port/l1ib-1c
1206 $(LINTLIB):= CPPFLAGS += -D_MSE_INT_H
1207 $(LINTLIB):= LINTFLAGS64=-nvx -m64

1209 # object files that depend on inline template
1210 $(TIL:=%=pics/%) : $(LIBCBASE)/threads/amd64.il
1211 # pics/mul64.o: crt/mul64.il

1213 # include common libc targets
1214 include ../Makefile.targ

1216 # We need to strip out all CTF data from the static library
1217 $(LIB_PIC) := DIR = pics
1218 $(LIB_PIC): pics $$$(PICS)
1219 $(BUILD.AR)
1220 $(MCS) -d -n .SUNW_ctf $@ > /dev/null 2>&1
1221 $(AR) -ts $@ > /dev/null
1222 $(POST_PROCESS_A)

1224 ASSYMDEP_OBJS= \
1225 _lwp_mutex_unlock.o \
1226 _stack_grow.o \
1227 asm_subr.o \
1228 getcontext.o \
1229 setjmp.o \
1230 tls_get_addr.o \
1231 vforkx.o

1233 $(ASSYMDEP_OBJS:=%=pics/%) : assym.h

1235 # assym.h build rules

1237 GENASSYM_C = genassym.c

```

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

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```

1239 genassym: $(GENASSYM_C)
1240 $(NATIVECC) $(NATIVE_CFLAGS) -Iinc -I$(LIBCDIR)/inc $(CPPFLAGS.native) \
1241 -o $@ $(GENASSYM_C)

1243 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in

1245 assym.h: $(OFFSETS) genassym
1246 $(OFFSETS_CREATE) <$(OFFSETS) >$@
1247 ./genassym >>$@

1249 # derived C source and related explicit dependencies
1250 $(LIBCDIR)/port/gen/errlst.c + \
1251 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1252 cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist

1254 pics/errlst.o: $(LIBCDIR)/port/gen/errlst.c

1256 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c

```

```

*****
24670 Tue Dec 6 18:26:01 2016
new/usr/src/lib/libc/i386/Makefile.com
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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.
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19 # CDDL HEADER END
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21 #
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29 #

31 LIBCDIR=      $(SRC)/lib/libc
32 LIB_PIC=      libc_pic.a
33 VERS=         .1
34 CPP=          /usr/lib/cpp
35 TARGET_ARCH= i386

37 VALUES=     values-Xa.o

39 # objects are grouped by source directory

41 # local objects
42 STRETS=

44 CRTOBS=      \
45      cerror.o \
46      cerror64.o

48 DYNOBJS=     \
49      _rtbootld.o

51 FPOBJS=      \
52      _D_cplx_div.o

```

```

53      _D_cplx_div_ix.o \
54      _D_cplx_div_rx.o \
55      _D_cplx_lr_div.o \
56      _D_cplx_lr_div_ix.o \
57      _D_cplx_lr_div_rx.o \
58      _D_cplx_mul.o \
59      _F_cplx_div.o \
60      _F_cplx_div_ix.o \
61      _F_cplx_div_rx.o \
62      _F_cplx_lr_div.o \
63      _F_cplx_lr_div_ix.o \
64      _F_cplx_lr_div_rx.o \
65      _F_cplx_mul.o \
66      _X_cplx_div.o \
67      _X_cplx_div_ix.o \
68      _X_cplx_div_rx.o \
69      _X_cplx_lr_div.o \
70      _X_cplx_lr_div_ix.o \
71      _X_cplx_lr_div_rx.o \
72      _X_cplx_mul.o \
73      fpgetmask.o \
74      fpgetround.o \
75      fpgetsticky.o \
76      fpsetmask.o \
77      fpsetround.o \
78      fpsetsticky.o \
79      fpstart.o \
80      ieee.o

82 FPASMOBJS=  \
83      __xgetRD.o \
84      _base_il.o \
85      _xtoll.o \
86      _xtoull.o \
87      fpcw.o

89 ATOMICOBJS= \
90      atomic.o

92 CHACHAOBJS= \
93      chacha.o

95 KATTROBJS=  \
96      xattr_common.o

98 COMOBJS=    \
99      bcmp.o \
100     bcopy.o \
101     bsearch.o \
102     bzero.o \
103     qsort.o \
104     strtol.o \
105     strtoul.o \
106     strtoll.o \
107     strtoull.o

109 DTRACEOBJS= \
110     dtrace_data.o

112 SECFLAGSOBJS= \
113     secflags.o

115 GENOBJS=    \
116     _div64.o \
117     _divdi3.o \
118     _getsp.o

```



```

119     _mul64.o           \
120     abs.o             \
121     alloca.o         \
122     arc4random.o     \
123     arc4random_uniform.o \
124     byteorder.o     \
125     byteorder64.o   \
126     cuexit.o        \
127     ecvt.o          \
128     endian.o        \
129     errlst.o        \
130     i386_data.o     \
131     ladd.o          \
132     ldivide.o       \
133     lmul.o          \
134     lock.o          \
135     lshift1.o       \
136     lsign.o         \
137     lsub.o          \
138     makecxt.o       \
139     memccpy.o       \
140     memchr.o        \
141     memcmp.o        \
142     memcpy.o        \
143     memset.o        \
144     new_list.o      \
145     setjmp.o        \
146     siginfolst.o   \
147     siglongjmp.o   \
148     strcat.o        \
149     strchr.o        \
150     strcmp.o        \
151     strcpy.o        \
152     strlen.o        \
153     strncat.o       \
154     strncmp.o       \
155     strncpy.o       \
156     strnlen.o       \
157     strrchr.o       \
158     sync_instruction_memory.o

160 # sysobjs that contain large-file interfaces
161 COMSYSOBS64=
162     fstatvfs64.o     \
163     getdents64.o    \
164     getrlimit64.o   \
165     lseek64.o       \
166     mmap64.o        \
167     pread64.o       \
168     preadv64.o      \
169     pwrite64.o      \
170     pwritev64.o     \
171     setrlimit64.o   \
172     statvfs64.o

174 SYSOBS64=

176 COMSYSOBS=
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

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```

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     facl.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     mmapobjsys.o    \
249     memcntl.o       \
250     mincore.o

```

```

251      mmap.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 SYSOBJS= \
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      getcontext.o  \
320      gettimeofday.o \
321      lwp_private.o \
322      nuname.o      \
323      ptrace.o      \
324      syscall.o     \
325      sysi86.o      \
326      tls_get_addr.o \
327      uadmin.o      \
328      umount.o      \
329      uname.o       \
330      vforkx.o     \
331      xstat.o       \

333 # objects under $(LIBCDIR)/port which contain transitional large file interfaces
334 PORTGEN64= \
335     _xftw64.o    \
336     attropen64.o \
337     ftw64.o      \
338     mkstemp64.o  \
339     nftw64.o     \
340     tell64.o     \
341     truncate64.o \

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

373 PORTGEN= \
374     _env_data.o   \
375     _xftw.o       \
376     a64l.o        \
377     abort.o       \
378     addsev.o      \
379     ascii_strcasecmp.o \
380     ascii_strncasecmp.o \
381     assert.o      \
382     atof.o        \

```

```

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

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```

449      getnetgrent.o  \|
450      get_nprocs.o   \|
451      getopt.o       \|
452      getopt_long.o  \|
453      getpagesize.o  \|
454      getpw.o        \|
455      getpwnam.o     \|
456      getpwnam_r.o   \|
457      getrusage.o    \|
458      getspent.o     \|
459      getspent_r.o   \|
460      getsubopt.o    \|
461      gettxt.o       \|
462      getusershell.o \|
463      getut.o        \|
464      getutx.o       \|
465      getvfsent.o   \|
466      getwd.o        \|
467      getwidth.o     \|
468      getxby_door.o  \|
469      gtxt.o         \|
470      hsearch.o      \|
471      iconv.o        \|
472      imaxabs.o      \|
473      imaxdiv.o      \|
474      index.o        \|
475      initgroups.o   \|
476      insque.o       \|
477      isaexec.o      \|
478      isastream.o    \|
479      isatty.o       \|
480      killpg.o       \|
481      klpdlb.o       \|
482      l64a.o         \|
483      lckpwwd.o      \|
484      lconstants.o  \|
485      lexml.o        \|
486      lfind.o        \|
487      lfnt.o         \|
488      lfnt_log.o     \|
489      llabs.o        \|
490      lldiv.o        \|
491      llog10.o       \|
492      lltostr.o      \|
493      localtime.o    \|
494      lsearch.o      \|
495      madvise.o      \|
496      malloc.o       \|
497      memalign.o     \|
498      memmem.o       \|
499      mkdev.o        \|
500      mkdtemp.o      \|
501      mkfifo.o       \|
502      mkstemp.o      \|
503      mktemp.o       \|
504      mlock.o        \|
505      mlockall.o     \|
506      mon.o          \|
507      msync.o        \|
508      munlock.o      \|
509      munlockall.o   \|
510      ndbm.o         \|
511      nftw.o         \|
512      nlspath_checks.o \|
513      nspare.o       \|
514      nss_common.o   \|

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```

515      nss_dbdefs.o      \
516      nss_deffinder.o   \
517      opendir.o         \
518      opt_data.o        \
519      perror.o          \
520      pfmt.o            \
521      pfmt_data.o       \
522      pfmt_print.o      \
523      pipe.o            \
524      plock.o           \
525      poll.o            \
526      posix_fadvise.o   \
527      posix_fallocate.o \
528      posix_madvise.o   \
529      posix_memalign.o  \
530      priocntl.o        \
531      privlib.o         \
532      priv_str_xlate.o  \
533      psecflags.o       \
534      psiginfo.o        \
535      psignal.o         \
536      pt.o              \
537      putpwent.o        \
538      putspent.o        \
539      raise.o           \
540      rand.o            \
541      random.o          \
542      rctlops.o         \
543      readdir.o         \
544      readdir_r.o       \
545      realpath.o        \
546      reboot.o          \
547      regexpr.o         \
548      remove.o          \
549      rewinddir.o       \
550      rindex.o          \
551      scandir.o         \
552      seekdir.o         \
553      select.o          \
554      select_large_fdset.o \
555      setlabel.o        \
556      setpriority.o     \
557      settimeofday.o   \
558      sh_locks.o        \
559      sigflag.o         \
560      siglist.o         \
561      sigsend.o         \
562      sigsetops.o       \
563      signal.o          \
564      stack.o           \
565      stpcpy.o          \
566      stpncpy.o         \
567      str2sig.o         \
568      strcase_charmap.o \
569      strchrnul.o       \
570      strcspn.o         \
571      strdup.o          \
572      strerror.o        \
573      strlcat.o         \
574      strlcpy.o         \
575      strndup.o         \
576      strpbrk.o         \
577      strsep.o          \
578      strsignal.o       \
579      strspn.o          \
580      strstr.o          \

```

```

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

```

```

648 PORTSTDIO_C89=      \
649     vscanf_c89.o    \
650     vwscanf_c89.o   \

652 # portable stdio objects that contain large file interfaces.
653 # Note: fopen64 is a special case, as we build it small.
654 PORTSTDIO64=        \
655     fopen64.o        \
656     fpos64.o         \

658 PORTSTDIO_W=        \
659     doscan_w.o       \

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

```

```

713     ungetc.o         \
714     vscanf.o         \
715     vwscanf.o        \
716     wscanf.o         \

718 PORTI18N=           \
719     getwchar.o       \
720     putwchar.o       \
721     putws.o          \
722     strtows.o        \
723     wcsnlen.o        \
724     wcsstr.o         \
725     wcstoimax.o      \
726     wcstol.o         \
727     wcstoul.o        \
728     wscwcs.o         \
729     wmemchr.o        \
730     wmemcmp.o        \
731     wmemcpy.o        \
732     wmemmove.o       \
733     wmemset.o        \
734     wscat.o          \
735     wschr.o          \
736     wscmp.o          \
737     wscpy.o          \
738     wscspn.o         \
739     wsdup.o          \
740     wslen.o          \
741     wsnecat.o        \
742     wsncmp.o         \
743     wsncpy.o         \
744     wspbrk.o         \
745     wsprintf.o       \
746     wsrchr.o         \
747     wscanf.o         \
748     wsspn.o          \
749     wstod.o          \
750     wstok.o          \
751     wstol.o          \
752     wstoll.o         \
753     wsxfrm.o         \
754     gettext.o        \
755     gettext_gnu.o    \
756     gettext_real.o   \
757     gettext_util.o   \
758     plural_parser.o  \
759     wdresolve.o      \
760     _ctype.o         \
761     isascii.o        \
762     toascii.o        \

764 PORTI18N_COND=     \
765     wcstol_longlong.o \
766     wcstoul_longlong.o \

768 PORTLOCALE=         \
769     big5.o           \
770     btowc.o          \
771     collate.o        \
772     collcmp.o        \
773     euc.o            \
774     fnmatch.o        \
775     fgetwc.o         \
776     fgetws.o         \
777     fix_grouping.o   \
778     fputwc.o         \

```

```

779      fputws.o          \
780      fwide.o          \
781      gb18030.o        \
782      gb2312.o        \
783      gbk.o            \
784      getdate.o        \
785      isdigit.o        \
786      iswctype.o       \
787      ldpart.o         \
788      lmessages.o      \
789      lnumeric.o       \
790      lmonetary.o      \
791      localeconv.o     \
792      localeimpl.o    \
793      mbftowc.o        \
794      mblen.o          \
795      mbrlen.o         \
796      mbrtowc.o        \
797      mbsinit.o        \
798      mbsnrtowcs.o     \
799      mbsrtowcs.o      \
800      mbstowcs.o       \
801      mbtowc.o         \
802      mskanji.o        \
803      nextwctype.o     \
804      nl_langinfo.o    \
805      none.o           \
806      regcomp.o        \
807      regfree.o        \
808      regerror.o       \
809      regexec.o        \
810      rune.o           \
811      runetype.o       \
812      setlocale.o      \
813      setrunelocale.o \
814      strcasecmp.o     \
815      strcasestr.o     \
816      strcoll.o        \
817      strfmon.o        \
818      strftime.o       \
819      strncasecmp.o    \
820      strptime.o       \
821      strxfrm.o        \
822      table.o          \
823      timelocal.o      \
824      tolower.o        \
825      towlower.o       \
826      ungetwc.o        \
827      utf8.o           \
828      wctomb.o         \
829      wcscasecmp.o     \
830      wcscoll.o        \
831      wcsftime.o       \
832      wcsnrtombs.o     \
833      wcsrtombs.o      \
834      wcswidth.o       \
835      wctombs.o        \
836      wcsxfrm.o        \
837      wctob.o          \
838      wctomb.o         \
839      wctrans.o        \
840      wctype.o          \
841      wcwidth.o        \
842      wscol.o          \
844 AIOOBS=           \

```

```

845      aio.o            \
846      aio_alloc.o     \
847      posix_aio.o     \
849 RTOBJS=             \
850      clock_timer.o   \
851      mqueue.o        \
852      pos4obj.o       \
853      sched.o         \
854      sem.o           \
855      shm.o           \
856      sigev_thread.o \
858 TPOOLOBS=          \
859      thread_pool.o  \
861 THREADSOBJS=       \
862      alloc.o         \
863      assfail.o       \
864      cancel.o        \
865      cll_thr.o       \
866      door_calls.o   \
867      tmem.o         \
868      pthr_attr.o     \
869      pthr_barrier.o  \
870      pthr_cond.o     \
871      pthr_mutex.o    \
872      pthr_rwlock.o   \
873      pthread.o       \
874      rwlock.o        \
875      scalls.o        \
876      sema.o          \
877      sigaction.o     \
878      spawn.o         \
879      synchron.o      \
880      tdb_agent.o     \
881      thr.o           \
882      thread_interface.o \
883      tls.o           \
884      tsd.o           \
886 THREADSMACHOBS=   \
887      machdep.o      \
889 THREADSASMOBJS=   \
890      asm_subr.o     \
892 UNICODEOBS=       \
893      u8_textprep.o  \
894      uconv.o        \
896 UNWINDMACHOBS=    \
897      unwind.o       \
899 UNWINDASMOBJS=    \
900      unwind_frame.o \
902 # objects that implement the transitional large file API
903 PORTSYS64=         \
904      lockf64.o      \
905      stat64.o       \
907 PORTSYS=           \
908      _autofssys.o   \
909      access.o        \
910      acctctl.o      \

```

```

911    bsd_signal.o      \
912     chmod.o          \
913     chown.o          \
914     corectl.o        \
915     epoll.o          \
916     eventfd.o        \
917     exacctsyst.o     \
918     execl.o          \
919     execl.o          \
920     execv.o          \
921     fcntl.o          \
922     getpagesizes.o  \
923     getpeerucred.o  \
924     inst_sync.o      \
925     issetugid.o      \
926     label.o          \
927     link.o           \
928     lockf.o          \
929     lwp.o            \
930     lwp_cond.o       \
931     lwp_rwlock.o     \
932     lwp_sigmask.o    \
933     meminfosys.o    \
934     mkdir.o          \
935     mknod.o          \
936     msgsys.o         \
937     nfssys.o         \
938     open.o           \
939     pgrpsys.o        \
940     posix_sigwait.o  \
941     ppriv.o          \
942     psetsys.o        \
943     rctlsys.o        \
944     readlink.o       \
945     rename.o         \
946     sbrk.o           \
947     semsys.o         \
948     set_errno.o      \
949     sharefs.o        \
950     shmsys.o         \
951     sidsys.o         \
952     siginterrupt.o   \
953     signal.o         \
954     signalfd.o       \
955     sigpending.o     \
956     sigstack.o       \
957     stat.o           \
958     symlink.o        \
959     tasksys.o        \
960     time.o           \
961     time_util.o      \
962     timerfd.o        \
963     ucontext.o       \
964     unlink.o         \
965     ustat.o          \
966     utimesys.o      \
967     zone.o           \
\
969 PORTREGEX=         \
970     glob.o           \
971     regcmp.o         \
972     regex.o          \
973     wordexp.o        \
\
975 PORTREGEX64=       \
976     glob64.o

```

```

978 MOSTOBSJ=         \
979     $(STRETS)        \
980     $(CRTOBSJ)       \
981     $(DYNOBJS)       \
982     $(FPOBSJ)        \
983     $(FPASMOBSJ)     \
984     $(ATOMICOBSJ)    \
985     $(CHACHAOBSJ)    \
986     $(XATTROBSJ)     \
987     $(COMOBSJ)       \
988     $(DTRACEOBSJ)    \
989     $(GENOBSJ)        \
990     $(PORTFP)        \
991     $(PORTGEN)        \
992     $(PORTGEN64)     \
993     $(PORTI18N)      \
994     $(PORTI18N_COND) \
995     $(PORTLOCALE)    \
996     $(PORTPRINT)     \
997     $(PORTPRINT_C89) \
998     $(PORTPRINT_W)   \
999     $(PORTREGEX)     \
1000    $(PORTREGEX64)    \
1001    $(PORTSTDIO)      \
1002    $(PORTSTDIO64)    \
1003    $(PORTSTDIO_C89)  \
1004    $(PORTSTDIO_W)    \
1005    $(PORTSYS)        \
1006    $(PORTSYS64)      \
1007    $(AIOOBSJ)        \
1008    $(RTOBSJ)         \
1009    $(SECFLAGSOBSJ)   \
1010    $(TPOOLOBSJ)      \
1011    $(THREADSOBSJ)    \
1012    $(THREADSMACHOBSJ) \
1013    $(THREADSASMOBSJ) \
1014    $(UNICODEOBSJ)    \
1015    $(UNWINDMACHOBSJ) \
1016    $(UNWINDASMOBSJ) \
1017    $(COMSYSOBSJ)     \
1018    $(SYSOBSJ)        \
1019    $(COMSYSOBSJ64)   \
1020    $(SYSOBSJ64)      \
1021    $(VALUES)         \
\
1023 TRACEOBSJ=        \
1024     plockstat.o     \
\
1026 # NOTE: libc.so.1 must be linked with the minimal crt1.o and crtn.o
1027 # modules whose source is provided in the $(SRC)/lib/crt directory.
1028 # This must be done because otherwise the Sun C compiler would insert
1029 # its own versions of these modules and those versions contain code
1030 # to call out to C++ initialization functions. Such C++ initialization
1031 # functions can call back into libc before thread initialization is
1032 # complete and this leads to segmentation violations and other problems.
1033 # Since libc contains no C++ code, linking with the minimal crt1.o and
1034 # crtn.o modules is safe and avoids the problems described above.
1035 OBJECTS= $(CRTI) $(MOSTOBSJ) $(CRTN)
1036 CRTSRCS= ../../crt/i386
1037 CRTSRCS= ../../common/i386
\
1038 LDPASS_OFF= $(POUND_SIGN)
\
1040 # include common library definitions

```

```

1041 include ../../Makefile.lib

1043 # we need to override the default SONAME here because we might
1044 # be building a variant object (still libc.so.1, but different filename)
1045 SONAME = libc.so.1

1047 CFLAGS += $(CCVERBOSE) $(CTF_FLAGS)

1049 # This is necessary to avoid problems with calling _ex_unwind().
1050 # We probably don't want any inlining anyway.
1051 XINLINE = -xinline=
1052 CFLAGS += $(XINLINE)

1054 CERRWARN += -_gcc=-Wno-parentheses
1055 CERRWARN += -_gcc=-Wno-switch
1056 CERRWARN += -_gcc=-Wno-uninitialized
1057 CERRWARN += -_gcc=-Wno-unused-value
1058 CERRWARN += -_gcc=-Wno-unused-label
1059 CERRWARN += -_gcc=-Wno-unused-variable
1060 CERRWARN += -_gcc=-Wno-type-limits
1061 CERRWARN += -_gcc=-Wno-char-subscripts
1062 CERRWARN += -_gcc=-Wno-clobbered
1063 CERRWARN += -_gcc=-Wno-unused-function
1064 CERRWARN += -_gcc=-Wno-address

1066 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1067 # enables ASSERT() checking in the threads portion of the library.
1068 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1069 THREAD_DEBUG =
1070 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1072 # Make string literals read-only to save memory.
1073 CFLAGS += $(XSTRCONST)

1075 ALTPICS= $(TRACEOBSJ:%=pics/%)

1077 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) \
1078             $(EXTPICS) $(LDLIBS)

1080 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1082 #
1083 # EXTN_CPPFLAGS and EXTN_CFLAGS set in enclosing Makefile
1084 #
1085 CFLAGS += $(EXTN_CFLAGS)
1086 CPPFLAGS= -D_REENTRANT -Di386 $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1087           -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1088 ASFLAGS= $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(CPPFLAGS) $(i386_AS_XARCH)

1090 # As a favor to the dtrace syscall provider, libc still calls the
1091 # old syscall traps that have been obsoleted by the *at() interfaces.
1092 # Delete this to compile libc using only the new *at() system call traps
1093 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1095 # Inform the run-time linker about libc specialized initialization
1096 RTLDINFO = -z rtldinfo=tls_rtldinfo
1097 DYNFLAGS += $(RTLDINFO)

1099 # Force libc's internal references to be resolved immediately upon loading
1100 # in order to avoid critical region problems. Since almost all libc symbols
1101 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1102 DYNFLAGS += -znow

1104 DYNFLAGS += -e __rtboot
1105 DYNFLAGS += $(EXTN_DYNFLAGS)

```

```

1107 # Inform the kernel about the initial DTrace area (in case
1108 # libc is being used as the interpreter / runtime linker).
1109 DTRACE_DATA = -zdtrace=dtrace_data
1110 DYNFLAGS += $(DTRACE_DATA)

1112 # DTrace needs an executable data segment.
1113 MAPFILE.NED=

1115 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1117 # Override this top level flag so the compiler builds in its native
1118 # C99 mode. This has been enabled to support the complex arithmetic
1119 # added to libc.
1120 C99MODE= $(C99_ENABLE)

1122 # libc method of building an archive
1123 # The "$(GREP) -v ' L ' " part is necessary only until
1124 # lorder is fixed to ignore thread-local variables.
1125 BUILD.AR= $(RM) $@ ; \
1126           $(AR) q $@ $(LORDER) $(MOSTOBSJ:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1128 # extra files for the clean target
1129 CLEANFILES= \
1130             $(LIBCDIR)/port/gen/errlst.c \
1131             $(LIBCDIR)/port/gen/new_list.c \
1132             assym.h \
1133             genassym \
1134             crt/_rtld.s \
1135             crt/_rtbootld.s \
1136             pics/_rtbootld.o \
1137             pics/crti.o \
1138             pics/crtn.o \
1139             $(ALTPICS)

1141 CLOBBERVERFILES += $(LIB_PIC)

1143 # list of C source for lint
1144 SRCS= \
1145         $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1146         $(XATTOBJS:%.o=$(SRC)/common/xattr/%.c) \
1147         $(COMOBSJ:%.o=$(SRC)/common/util/%.c) \
1148         $(DTRACEOBSJ:%.o=$(SRC)/common/dtrace/%.c) \
1149         $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1150         $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1151         $(PORTI18N:%.o=$(LIBCDIR)/port/il8n/%.c) \
1152         $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \
1153         $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1154         $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1155         $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1156         $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1157         $(AIOOBSJ:%.o=$(LIBCDIR)/port/aio/%.c) \
1158         $(RTOBSJ:%.o=$(LIBCDIR)/port/rt/%.c) \
1159         $(SECFLAGSOBSJ:%.o=$(SRC)/common/secflags/%.c) \
1160         $(TPOOLOBSJ:%.o=$(LIBCDIR)/port/tpool/%.c) \
1161         $(THREADSOBSJ:%.o=$(LIBCDIR)/port/threads/%.c) \
1162         $(THREADSMACHOBSJ:%.o=$(LIBCDIR)/$(MACH)/threads/%.c) \
1163         $(UNICODEOBSJ:%.o=$(SRC)/common/unicode/%.c) \
1164         $(UNWINDMACHOBSJ:%.o=$(LIBCDIR)/port/unwind/%.c) \
1165         $(FPOBSJ:%.o=$(LIBCDIR)/$(MACH)/fp/%.c) \
1166         $(LIBCBASE)/gen/ecvt.c \
1167         $(LIBCBASE)/gen/makectxt.c \
1168         $(LIBCBASE)/gen/signfolst.c \
1169         $(LIBCBASE)/gen/siglongjmp.c \
1170         $(LIBCBASE)/gen/strcmp.c \
1171         $(LIBCBASE)/gen/sync_instruction_memory.c \
1172         $(LIBCBASE)/sys/ptrace.c

```



```

1173      $(LIBCBASE)/sys/uadmin.c

1175 # conditional assignments
1176 $(DYNLIB) := CRTI = crt1.o
1177 $(DYNLIB) := CRTN = crtn.o

1179 # Files which need the threads .il inline template
1180 TIL=
1181     aio.o
1182     alloc.o
1183     assfail.o
1184     atexit.o
1185     atfork.o
1186     cancel.o
1187     door_calls.o
1188     err.o
1189     errno.o
1190     lwp.o
1191     ma.o
1192     machdep.o
1193     posix_aio.o
1194     pthr_attr.o
1195     pthr_barrier.o
1196     pthr_cond.o
1197     pthr_mutex.o
1198     pthr_rwlock.o
1199     pthread.o
1200     rand.o
1201     rwlock.o
1202     scalls.o
1203     sched.o
1204     sema.o
1205     sigaction.o
1206     sigev_thread.o
1207     spawn.o
1208     stack.o
1209     synch.o
1210     tdb_agent.o
1211     thr.o
1212     thread_interface.o
1213     thread_pool.o
1214     tls.o
1215     tsd.o
1216     tmem.o
1217     unwind.o

1219 THREADS_INLINES = $(LIBCBASE)/threads/i386.il
1220 $(TIL:%=pics/%) := CFLAGS += $(THREADS_INLINES)

1222 # pics/mul64.o := CFLAGS += $(LIBCBASE)/crt/mul64.il

1224 # large-file-aware components that should be built large

1226 $(COMSYSOBS64:%=pics/%) := \
1227     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1229 $(SYSOBS64:%=pics/%) := \
1230     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1232 $(PORTGEN64:%=pics/%) := \
1233     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1235 $(PORTREGEX64:%=pics/%) := \
1236     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1238 $(PORTSTDIO64:%=pics/%) := \

```

```

1239     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1241 $(PORTSYS64:%=pics/%) := \
1242     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1244 $(PORTSTDIO_W:%=pics/%) := \
1245     CPPFLAGS += -D_WIDE

1247 $(PORTPRINT_W:%=pics/%) := \
1248     CPPFLAGS += -D_WIDE

1250 $(PORTPRINT_C89:%=pics/%) := \
1251     CPPFLAGS += -D_C89_INTMAX32

1253 $(PORTSTDIO_C89:%=pics/%) := \
1254     CPPFLAGS += -D_C89_INTMAX32

1256 $(PORTI18N_COND:%=pics/%) := \
1257     CPPFLAGS += -D_WCS_LOGLONG

1259 pics/arc4random.o := CPPFLAGS += -I$(SRC)/common/crypto/chacha

1261 .KEEP_STATE:

1263 all: $(LIBS) $(LIB_PIC)

1265 lint := CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1266 lint := CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1267 lint := LINTFLAGS += -mn -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED

1269 lint:
1270     @echo $(LINT.c) ...
1271     @$$(LINT.c) $(SRCS) $(LDLIBS)

1273 $(LINTLIB) := SRCS=$(LIBCDIR)/port/l1ib-lc
1274 $(LINTLIB) := CPPFLAGS += -D_MSE_INT_H
1275 $(LINTLIB) := LINTFLAGS=-nvx

1277 # object files that depend on inline template
1278 $(TIL:%=pics/%) := $(LIBCBASE)/threads/i386.il
1279 # pics/mul64.o := $(LIBCBASE)/crt/mul64.il

1281 # include common libc targets
1282 include $(LIBCDIR)/Makefile.targ

1284 # We need to strip out all CTF and DOF data from the static library
1285 $(LIB_PIC) := DIR = pics
1286 $(LIB_PIC): pics $$$(PICS)
1287     $(BUILD.AR)
1288     $(MCS) -d -n .SUNW_ctf $$@ > /dev/null 2>&1
1289     $(MCS) -d -n .SUNW_dof $$@ > /dev/null 2>&1
1290     $(AR) -ts $$@ > /dev/null
1291     $(POST_PROCESS_A)

1293 $(LIBCBASE)/crt/_rtbootld.s: $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.o
1294     $(CC) $(CPPFLAGS) $(CTF_FLAGS) -O -S $(C_PICFLAGS) \
1295     $(LIBCBASE)/crt/_rtld.c -o $(LIBCBASE)/crt/_rtld.s
1296     $(CAT) $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.s > $$@
1297     $(RM) $(LIBCBASE)/crt/_rtld.s

1299 # partially built from C source
1300 pics/_rtbootld.o: $(LIBCBASE)/crt/_rtbootld.s
1301     $(AS) $(ASFLAGS) $(LIBCBASE)/crt/_rtbootld.s -o $$@
1302     $(CTFCONVERT_O)

1304 ASSYMDEP_OBJS= \

```

```
1305     _lwp_mutex_unlock.o    \  
1306     _stack_grow.o          \  
1307     getcontext.o           \  
1308     setjmp.o               \  
1309     tls_get_addr.o        \  
1310     vforkx.o               \  
  
1312 $(ASSYMDEP_OBJS:%=pics/%) := CPPFLAGS += -I.  
  
1314 $(ASSYMDEP_OBJS:%=pics/%) : assym.h  
  
1316 # assym.h build rules  
  
1318 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c  
  
1320 genassym: $(GENASSYM_C)  
1321     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \  
1322     -D__EXTENSIONS__ $(CPPFLAGS.native) -o $@ $(GENASSYM_C)  
  
1324 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in  
  
1326 assym.h: $(OFFSETS) genassym  
1327     $(OFFSETS_CREATE) <$(OFFSETS) >$@  
1328     ./genassym >>$@  
  
1330 # derived C source and related explicit dependencies  
1331 $(LIBCDIR)/port/gen/errlst.c + \  
1332 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/  
1333     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist  
  
1335 pics/errlst.o: $(LIBCDIR)/port/gen/errlst.c  
  
1337 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c
```

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

1

```
*****
3614 Tue Dec 6 18:26:02 2016
new/usr/src/lib/libc/i386/gen/makectxt.c
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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
```

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

2

```
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 very first instruction in
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.
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 Tue Dec 6 18:26:03 2016
new/usr/src/lib/libc/i386/threads/machdep.c
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright (c) 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/makecrt.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/makecrt.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  */
42 #undef STACK_ALIGN
43 #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 (ucopy(&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 Tue Dec 6 18:26:04 2016
new/usr/src/lib/libc/req.flg
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
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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
```

```

*****
26489 Tue Dec 6 18:26:05 2016
new/usr/src/lib/libc/sparc/Makefile.com
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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25 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
26 #
27 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
28 # Use is subject to license terms.
29 #

31 LIBCDIR=      $(SRC)/lib/libc
32 LIB_PIC=      libc_pic.a
33 VERS=         .1
34 CPP=          /usr/lib/cpp
35 TARGET_ARCH= sparc

37 # objects are grouped by source directory

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

48 # local objects
49 STRETS=      \
50              stret1.o \
51              stret2.o \
52              stret4.o

```

```

54 CRTOBS=      \
55              _ftou.o \
56              cerror.o \
57              cerror64.o \
58              hwmuldiv.o

60 DYNOBJS=     \
61              _rtbootld.o

63 FPOBJS=      \
64              _D_cplx_div.o \
65              _D_cplx_div_ix.o \
66              _D_cplx_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_mul.o \
72              _Q_add.o \
73              _Q_cmp.o \
74              _Q_cmpe.o \
75              _Q_cplx_div.o \
76              _Q_cplx_div_ix.o \
77              _Q_cplx_div_rx.o \
78              _Q_cplx_lr_div.o \
79              _Q_cplx_lr_div_ix.o \
80              _Q_cplx_lr_div_rx.o \
81              _Q_cplx_lr_mul.o \
82              _Q_cplx_mul.o \
83              _Q_div.o \
84              _Q_dtoq.o \
85              _Q_fcc.o \
86              _Q_itog.o \
87              _Q_lltoq.o \
88              _Q_mul.o \
89              _Q_neg.o \
90              _Q_qtod.o \
91              _Q_qtoi.o \
92              _Q_qtos.o \
93              _Q_qtou.o \
94              _Q_scl.o \
95              _Q_set_except.o \
96              _Q_sqrt.o \
97              _Q_stog.o \
98              _Q_sub.o \
99              _Q_ulltoq.o \
100             _Q_utoq.o \
101             __quad_mag.o

103 FPASMOBJS=  \
104             _Q_get_rp_rd.o \
105             fpgetmask.o \
106             fpgetrnd.o \
107             fpgetsticky.o \
108             fpsetmask.o \
109             fpsetrnd.o \
110             fpsetsticky.o

112 $(__GNUCC)FPASMOBJS += \
113             __quad.o

115 ATOMICOBJS= \
116             atomic.o

118 CHACHAOBJS= \

```

```

119      chacha.o
121 XATTR_OBJS= \
122      xattr_common.o

124 COM_OBJS= \
125      bcmp.o \
126      bcopy.o \
127      bzero.o \
128      bsearch.o \
129      memccpy.o \
130      qsort.o \
131      strtol.o \
132      strtoul.o \
133      strtoll.o \
134      strtoull.o

136 DTRACE_OBJS= \
137      dtrace_data.o

139 SECFLAGS_OBJS= \
140      secflags.o

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

180 # sysobjs that contain large-file interfaces
181 COMSYSOBJS64= \
182      fstatvfs64.o \
183      getdents64.o \
184      getrlimit64.o

```

```

185      lseek64.o \
186      mmap64.o \
187      pread64.o \
188      preadv64.o \
189      pwrite64.o \
190      pwritev64.o \
191      setrlimit64.o \
192      statvfs64.o

194 SYSOBJS64=

196 COMSYSOBJS= \
197      __clock_timer.o \
198      __getloadavg.o \
199      __rusagesys.o \
200      __signotify.o \
201      __sigrt.o \
202      __time.o \
203      __lgrp_home_fast.o \
204      __lgrpsys.o \
205      __nfssys.o \
206      __portfs.o \
207      __pset.o \
208      __rpcsys.o \
209      __sigaction.o \
210      __so_accept.o \
211      __so_bind.o \
212      __so_connect.o \
213      __so_getpeername.o \
214      __so_getsockname.o \
215      __so_getsockopt.o \
216      __so_listen.o \
217      __so_recv.o \
218      __so_recvfrom.o \
219      __so_recvmsg.o \
220      __so_send.o \
221      __so_sendmsg.o \
222      __so_sendto.o \
223      __so_setsockopt.o \
224      __so_shutdown.o \
225      __so_socket.o \
226      __so_socketpair.o \
227      __sockconfig.o \
228      acct.o \
229      acl.o \
230      adjtime.o \
231      alarm.o \
232      brk.o \
233      chdir.o \
234      chroot.o \
235      cladm.o \
236      close.o \
237      execve.o \
238      exit.o \
239      facld.o \
240      fchdir.o \
241      fchroot.o \
242      fdsync.o \
243      fpathconf.o \
244      fstatfs.o \
245      fstatvfs.o \
246      getcpuid.o \
247      getdents.o \
248      getegid.o \
249      geteuid.o \
250      getgid.o

```

```

251      getgroups.o      \
252      gethrtime.o     \
253      getitimer.o     \
254      getmsg.o        \
255      getpid.o        \
256      getpmsg.o       \
257      getppid.o       \
258      getrandom.o     \
259      getrlimit.o     \
260      getuid.o        \
261      gtty.o          \
262      install_utrap.o \
263      ioctl.o         \
264      kaio.o          \
265      kill.o          \
266      llseek.o        \
267      lseek.o         \
268      memcntl.o       \
269      mincore.o       \
270      mmap.o          \
271      mmapobjsys.o   \
272      modctl.o        \
273      mount.o         \
274      mprotect.o     \
275      munmap.o        \
276      nice.o          \
277      ntp_adjtime.o   \
278      ntp_gettime.o   \
279      p_online.o      \
280      pathconf.o     \
281      pause.o         \
282      pcsample.o      \
283      pipe2.o         \
284      pollsys.o       \
285      pread.o         \
286      preadv.o        \
287      priocntlset.o  \
288      processor_bind.o \
289      processor_info.o \
290      profil.o        \
291      psecflagsset.o \
292      putmsg.o        \
293      putpmsg.o       \
294      pwrite.o        \
295      pwritev.o       \
296      read.o          \
297      readv.o         \
298      resolvepath.o  \
299      seteguid.o      \
300      setgid.o        \
301      setgroups.o     \
302      setitimer.o     \
303      setreid.o       \
304      setrlimit.o    \
305      setuid.o        \
306      sigaltstk.o     \
307      sigprocmsk.o   \
308      sigsendset.o   \
309      sigsuspend.o    \
310      statfs.o        \
311      statvfs.o       \
312      stty.o          \
313      sync.o          \
314      sysconfig.o    \
315      sysfs.o         \
316      sysinfo.o       \

```

```

317      syslwp.o        \
318      times.o         \
319      ulimit.o        \
320      umask.o         \
321      umount2.o       \
322      utssys.o        \
323      uucopy.o        \
324      vhangup.o       \
325      waitid.o        \
326      write.o         \
327      writev.o        \
328      yield.o         \
329
330  SYSOBJS=
331      __clock_gettime.o \
332      __getcontext.o   \
333      __lwp_mutex_unlock.o \
334      __stack_grow.o  \
335      __uadmin.o       \
336      door.o           \
337      forkx.o          \
338      forkallx.o      \
339      gettimeofday.o  \
340      ptrace.o         \
341      syscall.o        \
342      tls_get_addr.o  \
343      uadmin.o         \
344      umount.o         \
345      uname.o          \
346      vforkx.o         \
347
348  # objects under $(LIBCDIR)/port which contain transitional large file interfaces
349  PORTGEN64=
350      _xftw64.o        \
351      attropen64.o     \
352      ftw64.o          \
353      mkstemp64.o      \
354      nftw64.o         \
355      tell64.o         \
356      truncate64.o     \
357
358  # objects from source under $(LIBCDIR)/port
359  PORTFP=
360      __flt_decim.o    \
361      __flt_rounds.o  \
362      __tbl_10_b.o     \
363      __tbl_10_h.o     \
364      __tbl_10_s.o     \
365      __tbl_2_b.o      \
366      __tbl_2_h.o      \
367      __tbl_2_s.o      \
368      __tbl_fdq.o      \
369      __tbl_tens.o     \
370      __x_power.o      \
371      _base_sup.o      \
372      aconvert.o       \
373      decimal_bin.o    \
374      double_decim.o  \
375      econvert.o       \
376      fconvert.o       \
377      file_decim.o     \
378      finite.o         \
379      fp_data.o        \
380      func_decim.o     \
381      gconvert.o       \
382      hex_bin.o        \

```



```

383     ieee_globals.o      \|
384     pack_float.o       \|
385     sigfpe.o           \|
386     string_decim.o     \|
387     ashldi3.o          \|
388     ashrdi3.o          \|
389     cmpdi2.o           \|
390     divdi3.o           \|
391     floatdidf.o        \|
392     floatdisf.o        \|
393     floatundidf.o     \|
394     floatundisf.o     \|
395     lshrdi3.o          \|
396     moddi3.o           \|
397     muldi3.o           \|
398     qdivrem.o          \|
399     ucmpdi2.o          \|
400     udivdi3.o          \|
401     umoddi3.o          \|

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

```

```

449     euclen.o          \|
450     event_port.o      \|
451     execvp.o          \|
452     explicit_bzero.o \|
453     fattach.o         \|
454     fdetach.o         \|
455     fdopendir.o       \|
456     ffs.o             \|
457     flock.o           \|
458     fls.o             \|
459     fmtmsg.o          \|
460     ftime.o           \|
461     ftok.o            \|
462     ftw.o             \|
463     gcvt.o            \|
464     getauxv.o         \|
465     getcwd.o          \|
466     getdate_err.o    \|
467     getdtblsize.o    \|
468     getentropy.o     \|
469     getenv.o          \|
470     getexecname.o    \|
471     getgrnam.o        \|
472     getgrnam_r.o     \|
473     gethostid.o       \|
474     gethostname.o    \|
475     gethz.o           \|
476     getisax.o         \|
477     getloadavg.o     \|
478     getlogin.o        \|
479     getmntent.o       \|
480     getnetgrent.o    \|
481     get_nprocs.o     \|
482     getopt.o          \|
483     getopt_long.o    \|
484     getpagesize.o    \|
485     getpw.o           \|
486     getpwnam.o        \|
487     getpwnam_r.o     \|
488     getrusage.o       \|
489     getspent.o        \|
490     getspent_r.o     \|
491     getsubopt.o      \|
492     gettxt.o          \|
493     getusershell.o   \|
494     getut.o           \|
495     getutx.o          \|
496     getvfsent.o      \|
497     getwd.o           \|
498     getwidth.o        \|
499     getxby_door.o    \|
500     gtxt.o            \|
501     hsearch.o         \|
502     iconv.o           \|
503     imaxabs.o         \|
504     imaxdiv.o         \|
505     index.o           \|
506     initgroups.o     \|
507     insque.o          \|
508     isaexec.o         \|
509     isastream.o       \|
510     isatty.o          \|
511     killpg.o          \|
512     klpdlib.o         \|
513     l64a.o            \|
514     lckpwwdf.o       \|

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515      lconstants.o      \
516      ldivide.o        \
517      lexp10.o         \
518      lfind.o          \
519      lfmt.o           \
520      lfmt_log.o       \
521      llabs.o          \
522      lldiv.o          \
523      llog10.o         \
524      lltostr.o        \
525      localtime.o     \
526      lsearch.o        \
527      madvise.o        \
528      malloc.o         \
529      memalign.o       \
530      memmem.o         \
531      mkdev.o          \
532      mkdtemp.o        \
533      mkfifo.o         \
534      mkstemp.o        \
535      mktemp.o         \
536      mlock.o          \
537      mlockall.o      \
538      mon.o            \
539      msync.o          \
540      munlock.o        \
541      munlockall.o    \
542      ndbm.o           \
543      nftw.o           \
544      nlspace_checks.o \
545      nsparse.o        \
546      nss_common.o     \
547      nss_dbdefs.o     \
548      nss_deffinder.o  \
549      opendir.o        \
550      opt_data.o       \
551      perror.o         \
552      pfmt.o           \
553      pfmt_data.o     \
554      pfmt_print.o     \
555      pipe.o           \
556      plock.o          \
557      poll.o           \
558      posix_fadvise.o  \
559      posix_fallocate.o \
560      posix_madvise.o  \
561      posix_memalign.o \
562      priocntl.o       \
563      privlib.o        \
564      priv_str_xlate.o  \
565      psecflags.o      \
566      psiginfo.o       \
567      psignal.o        \
568      pt.o             \
569      putpwent.o       \
570      putsptent.o      \
571      raise.o          \
572      rand.o           \
573      random.o         \
574      rctlops.o        \
575      readdir.o        \
576      readdir_r.o      \
577      realpath.o       \
578      reboot.o         \
579      regex.o          \
580      remove.o         \

```

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581      rewinddir.o      \
582      rindex.o         \
583      scandir.o        \
584      seekdir.o        \
585      select.o         \
586      select_large_fdset.o \
587      setlabel.o       \
588      setpriority.o    \
589      settimeofday.o   \
590      sh_locks.o       \
591      sigflag.o        \
592      siglist.o        \
593      sigsend.o        \
594      sigsetops.o      \
595      ssignal.o        \
596      stack.o          \
597      stpcpy.o         \
598      stpncpy.o        \
599      str2sig.o         \
600      strcase_ucharmap.o \
601      strcat.o         \
602      strchrnul.o      \
603      strcspn.o        \
604      strdup.o         \
605      strerror.o       \
606      strlcat.o        \
607      strncat.o        \
608      strndup.o        \
609      strpbrk.o        \
610      strrchr.o        \
611      strsep.o         \
612      strsignal.o      \
613      strspn.o         \
614      strstr.o         \
615      strtod.o         \
616      strtointmax.o    \
617      strtok.o         \
618      strtok_r.o       \
619      strtoumax.o      \
620      swab.o           \
621      swapctl.o        \
622      sysconf.o        \
623      syslog.o         \
624      tcdrain.o        \
625      tcflow.o         \
626      tcflush.o        \
627      tcgetattr.o     \
628      tcgetpgrp.o     \
629      tcgetsid.o       \
630      tcsendbreak.o    \
631      tcsetattr.o      \
632      tcsetpgrp.o     \
633      tell.o           \
634      telldir.o        \
635      tfind.o          \
636      time_data.o      \
637      time_gdata.o     \
638      timespec_get.o   \
639      tls_data.o       \
640      truncate.o       \
641      tsdalloc.o       \
642      tsearch.o        \
643      ttyname.o        \
644      ttyslot.o        \
645      ualarm.o         \
646      ucred.o          \

```

```

647         valloc.o           \
648         vlfmt.o            \
649         vpfmt.o            \
650         waitpid.o          \
651         walkstack.o        \
652         wdata.o            \
653         xgetwidth.o        \
654         xpg4.o             \
655         xpg6.o             \
657 PORTPRINT_W=             \
658         doprnt_w.o         \
660 PORTPRINT=               \
661         asprintf.o         \
662         doprnt.o           \
663         fprintf.o          \
664         printf.o           \
665         snprintf.o         \
666         sprintf.o          \
667         vfprintf.o         \
668         vprintf.o          \
669         vsnprintf.o        \
670         vsprintf.o         \
671         vwprintf.o         \
672         wprintf.o          \
674 # c89 variants to support 32-bit size of c89 u/intmax_t (32-bit libc only)
675 PORTPRINT_C89=           \
676         vfprintf_c89.o     \
677         vprintf_c89.o      \
678         vsnprintf_c89.o    \
679         vsprintf_c89.o     \
680         vwprintf_c89.o     \
682 PORTSTDIO_C89=          \
683         vscanf_c89.o       \
684         vwscanf_c89.o      \
686 # portable stdio objects that contain large file interfaces.
687 # Note: fopen64 is a special case, as we build it small.
688 PORTSTDIO64=            \
689         fopen64.o          \
690         fpos64.o           \
692 PORTSTDIO_W=            \
693         doscan_w.o         \
695 PORTSTDIO=              \
696         __extensions.o     \
697         __endopen.o        \
698         _filbuf.o          \
699         _findbuf.o         \
700         _flsbuf.o          \
701         _wrtchk.o          \
702         clearerr.o         \
703         ctermid.o          \
704         ctermid_r.o        \
705         cuserid.o          \
706         data.o             \
707         doscan.o           \
708         fdopen.o           \
709         feof.o             \
710         ferror.o           \
711         fgetc.o            \
712         fgets.o            \

```

```

713         fileno.o           \
714         flockf.o           \
715         flush.o            \
716         fopen.o            \
717         fpos.o             \
718         fputc.o            \
719         fputs.o            \
720         fread.o            \
721         fseek.o            \
722         fseeko.o           \
723         ftell.o            \
724         ftello.o           \
725         fwrite.o           \
726         getc.o             \
727         getchar.o          \
728         getline.o          \
729         getpass.o          \
730         gets.o             \
731         getw.o             \
732         popen.o            \
733         putc.o             \
734         putchar.o          \
735         puts.o             \
736         putw.o             \
737         rewind.o           \
738         scanf.o            \
739         setbuf.o           \
740         setbuffer.o        \
741         setvbuf.o          \
742         system.o           \
743         tempnam.o          \
744         tmpfile.o          \
745         tmpnam_r.o         \
746         ungetc.o           \
747         mse.o              \
748         vscanf.o           \
749         vwscanf.o          \
750         wscanf.o           \
752 PORTI18N=               \
753         getwchar.o         \
754         putwchar.o         \
755         putws.o            \
756         strtows.o          \
757         wcsnlen.o          \
758         wcstoimax.o        \
759         wcstol.o           \
760         wcstoul.o          \
761         wcswcs.o           \
762         wscat.o            \
763         wschr.o            \
764         wscmp.o            \
765         wscopy.o           \
766         wcsncpy.o          \
767         wsdup.o            \
768         wslen.o            \
769         wsnecat.o          \
770         wsnncpy.o          \
771         wsnpcpy.o          \
772         wspan.o            \
773         wspanf.o           \
774         wsrchr.o           \
775         wsscanf.o          \
776         wsspn.o            \
777         wstod.o            \
778         wstok.o            \

```

```

779      wstol.o      \
780      wstoll.o     \
781      wsxfrm.o     \
782      wmemchr.o    \
783      wmemcmp.o    \
784      wmemcpy.o    \
785      wmemmove.o   \
786      wmemset.o    \
787      wcsstr.o     \
788      gettext.o    \
789      gettext_real.o \
790      gettext_util.o \
791      gettext_gnu.o \
792      plural_parser.o \
793      wdresolve.o  \
794      _ctype.o     \
795      isascii.o    \
796      toascii.o    \
\
798 PORTI18N_COND= \
799      wcstol_longlong.o \
800      wcstoul_longlong.o \
\
802 PORTLOCALE= \
803      big5.o       \
804      btowc.o      \
805      collate.o    \
806      collcmp.o    \
807      euc.o        \
808      fnmatch.o    \
809      fgetwc.o     \
810      fgetws.o     \
811      fix_grouping.o \
812      fputwc.o     \
813      fputws.o     \
814      fwide.o      \
815      gb18030.o    \
816      gb2312.o    \
817      gbk.o        \
818      getdate.o    \
819      isdigit.o    \
820      iswctype.o   \
821      ldpart.o     \
822      lmessages.o  \
823      lnumeric.o   \
824      lmonetary.o  \
825      localeimpl.o \
826      localeconv.o \
827      mbftowc.o    \
828      mblen.o      \
829      mbrlen.o     \
830      mbrtowc.o    \
831      mbsinit.o    \
832      mbsnrtowcs.o \
833      mbsrtowcs.o  \
834      mbstowcs.o   \
835      mbtowc.o     \
836      mskanji.o    \
837      nextwctype.o \
838      nl_langinfo.o \
839      none.o       \
840      regcomp.o    \
841      regfree.o    \
842      regerror.o   \
843      regexec.o    \
844      rune.o       \

```

```

845      runetype.o   \
846      setlocale.o  \
847      setrunelocale.o \
848      strcasecmp.o  \
849      strcasestr.o  \
850      strcoll.o     \
851      strfmon.o     \
852      strftime.o   \
853      strncasecmp.o \
854      strptime.o    \
855      strxfrm.o     \
856      table.o       \
857      timelocal.o  \
858      tolower.o     \
859      towlower.o    \
860      ungetwc.o     \
861      utf8.o        \
862      wctomb.o      \
863      wcscasecmp.o  \
864      wcscoll.o     \
865      wcsftime.o    \
866      wcsnrtombs.o  \
867      wcsrtombs.o   \
868      wcstombs.o    \
869      wcswidth.o    \
870      wcsxfrm.o     \
871      wctob.o       \
872      wctomb.o      \
873      wctrans.o     \
874      wctype.o      \
875      wcwidth.o     \
876      wscoll.o      \
\
878 AIOBJS= \
879      aio.o         \
880      aio_alloc.o  \
881      posix_aio.o  \
\
883 RTOBJS= \
884      clock_timer.o \
885      mqueue.o      \
886      pos4obj.o     \
887      sched.o       \
888      sem.o         \
889      shm.o         \
890      sigev_thread.o \
\
892 TPOOLBJS= \
893      thread_pool.o \
\
895 THREADSOBJS= \
896      alloc.o       \
897      assfail.o     \
898      cancel.o      \
899      cli_thr.o     \
900      door_calls.o  \
901      tmem.o        \
902      pthr_attr.o   \
903      pthr_barrier.o \
904      pthr_cond.o   \
905      pthr_mutex.o  \
906      pthr_rwlock.o \
907      pthread.o     \
908      rwlock.o      \
909      scalls.o      \
910      sema.o        \

```

```

911      sigaction.o      \
912      spawn.o          \
913      synch.o           \
914      tdb_agent.o      \
915      thr.o             \
916      thread_interface.o \
917      tls.o             \
918      tsd.o             \

920 THREADSMACHOBJS=    \
921      machdep.o        \

923 THREADSASMOBJS=    \
924      asm_subr.o       \

926 UNICODEOBJS=       \
927      u8_textprep.o   \
928      uconv.o          \

930 UNWINDMACHOBJS=    \
931      unwind.o         \

933 UNWINDASMOBJS=     \
934      unwind_frame.o  \

936 # objects that implement the transitional large file API
937 PORTSYS64=          \
938      lockf64.o        \
939      stat64.o         \

941 PORTSYS=            \
942      _autofssys.o     \
943      access.o          \
944      acctctl.o         \
945      bsd_signal.o     \
946      chmod.o           \
947      chown.o           \
948      corectl.o         \
949      epoll.o           \
950      eventfd.o         \
951      exacctsyst.o     \
952      execl.o           \
953      execl.o           \
954      execv.o           \
955      fcntl.o           \
956      getpagesizes.o   \
957      getpeerucred.o   \
958      inst_sync.o       \
959      issetugid.o       \
960      label.o           \
961      link.o            \
962      lockf.o           \
963      lwp.o             \
964      lwp_cond.o        \
965      lwp_rwlock.o      \
966      lwp_sigmask.o     \
967      meminfosys.o     \
968      mkdir.o           \
969      mknod.o           \
970      msgsys.o          \
971      nfssys.o          \
972      open.o            \
973      pgrpsys.o         \
974      posix_sigwait.o   \
975      ppriv.o           \
976      psetsys.o        \

```

```

977      rctlsys.o        \
978      readlink.o       \
979      rename.o          \
980      sbrk.o            \
981      semsys.o          \
982      set_errno.o       \
983      sharefs.o         \
984      shmsys.o          \
985      sidsys.o          \
986      siginterrupt.o    \
987      signal.o          \
988      signalfd.o        \
989      sigpending.o      \
990      sigstack.o        \
991      stat.o            \
992      symlink.o         \
993      tasksys.o         \
994      time.o            \
995      time_util.o       \
996      timerfd.o         \
997      ucontext.o        \
998      unlink.o          \
999      ustat.o           \
1000     utimesys.o        \
1001     zone.o             \

1003 PORTREGEX=          \
1004     glob.o             \
1005     regcmp.o           \
1006     regex.o            \
1007     wordexp.o          \

1009 PORTREGEX64=        \
1010     glob64.o           \

1012 VALUES= values-Xa.o \

1014 MOSTOBJS=            \
1015     $(STRETS)           \
1016     $(CRTOBJS)          \
1017     $(DYNOBJS)          \
1018     $(FPOBJS)           \
1019     $(FPASMOBJS)        \
1020     $(ATOMICOBJS)       \
1021     $(CHACHAOBJS)       \
1022     $(XATTROBJS)        \
1023     $(COMOBJS)          \
1024     $(DTRACEOBJS)       \
1025     $(GENOBJS)          \
1026     $(PRFOBJS)          \
1027     $(PORTFP)           \
1028     $(PORTGEN)          \
1029     $(PORTGEN64)        \
1030     $(PORTI18N)         \
1031     $(PORTI18N_COND)    \
1032     $(PORTLOCALE)       \
1033     $(PORTPRINT)        \
1034     $(PORTPRINT_C89)    \
1035     $(PORTPRINT_W)      \
1036     $(PORTREGEX)        \
1037     $(PORTREGEX64)      \
1038     $(PORTSTDIO)        \
1039     $(PORTSTDIO64)      \
1040     $(PORTSTDIO_C89)    \
1041     $(PORTSTDIO_W)      \
1042     $(PORTSYS)          \

```

```

1043 $(PORTSYS64) \
1044 $(AIOOBS) \
1045 $(RTOBS) \
1046 $(SECFLAGSOBS) \
1047 $(TPOOLBS) \
1048 $(THREADSOBS) \
1049 $(THREADSMACHOBS) \
1050 $(THREADSASMOBS) \
1051 $(UNICODEOBS) \
1052 $(UNWINDMACHOBS) \
1053 $(UNWINDASMOBS) \
1054 $(COMSYSOBS) \
1055 $(SYSOBS) \
1056 $(COMSYSOBS64) \
1057 $(SYSOBS64) \
1058 $(VALUES)

1060 TRACEOBS= \
1061 plockstat.o

1063 # NOTE: libc.so.1 must be linked with the minimal crti.o and crtn.o
1064 # modules whose source is provided in the $(SRC)/lib/crt directory.
1064 # modules whose source is provided in the $(SRC)/lib/common directory.
1065 # This must be done because otherwise the Sun C compiler would insert
1066 # its own versions of these modules and those versions contain code
1067 # to call out to C++ initialization functions. Such C++ initialization
1068 # functions can call back into libc before thread initialization is
1069 # complete and this leads to segmentation violations and other problems.
1070 # Since libc contains no C++ code, linking with the minimal crti.o and
1071 # crtn.o modules is safe and avoids the problems described above.
1072 OBJECTS= $(CRTI) $(MOSTOBS) $(CRTN)
1073 CRTSRCS= ../../crt/sparcv7
1073 CRTSRCS= ../../common/sparc

1075 # include common library definitions
1076 include $(SRC)/lib/Makefile.lib

1078 # we need to override the default SONAME here because we might
1079 # be building a variant object (still libc.so.1, but different filename)
1080 SONAME = libc.so.1

1082 CFLAGS += $(CCVERBOSE)

1084 # This is necessary to avoid problems with calling _ex_unwind().
1085 # We probably don't want any inlining anyway.
1086 CFLAGS += -xinline=

1088 CERRWARN += -_gcc=-Wno-parentheses
1089 CERRWARN += -_gcc=-Wno-switch
1090 CERRWARN += -_gcc=-Wno-uninitialized
1091 CERRWARN += -_gcc=-Wno-unused-value
1092 CERRWARN += -_gcc=-Wno-unused-label
1093 CERRWARN += -_gcc=-Wno-unused-variable
1094 CERRWARN += -_gcc=-Wno-type-limits
1095 CERRWARN += -_gcc=-Wno-char-subscripts
1096 CERRWARN += -_gcc=-Wno-clobbered
1097 CERRWARN += -_gcc=-Wno-unused-function
1098 CERRWARN += -_gcc=-Wno-address

1100 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1101 # enables ASSERT() checking in the threads portion of the library.
1102 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1103 THREAD_DEBUG =
1104 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1106 # Make string literals read-only to save memory.

```

```

1107 CFLAGS += $(XSTRCONST)

1109 ALTPICS= $(TRACEOBS:%=pics/%)

1111 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)

1113 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1115 CFLAGS += $(EXTN_CFLAGS)
1116 CPPFLAGS= -D_REENTRANT -Dsparc $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1117 -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1118 ASFLAGS= $(EXTN_ASFLAGS) -K pic -P -D__STDC__ -D_ASM $(CPPFLAGS) $(sparc_

1120 # As a favor to the dtrace syscall provider, libc still calls the
1121 # old syscall traps that have been obsoleted by the *at() interfaces.
1122 # Delete this to compile libc using only the new *at() system call traps
1123 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1125 # Inform the run-time linker about libc specialized initialization
1126 RTLDINFO = -z rtldinfo=tls_rtldinfo
1127 DYNFLAGS += $(RTLDINFO)

1129 # Force libc's internal references to be resolved immediately upon loading
1130 # in order to avoid critical region problems. Since almost all libc symbols
1131 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1132 DYNFLAGS += -znov

1134 DYNFLAGS += -e __rtboot
1135 DYNFLAGS += $(EXTN_DYNFLAGS)

1137 # Inform the kernel about the initial DTrace area (in case
1138 # libc is being used as the interpreter / runtime linker).
1139 DTRACE_DATA = -zdtrace=dtrace_data
1140 DYNFLAGS += $(DTRACE_DATA)

1142 # DTrace needs an executable data segment.
1143 MAPFILE.NED=

1145 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1147 # Override this top level flag so the compiler builds in its native
1148 # C99 mode. This has been enabled to support the complex arithmetic
1149 # added to libc.
1150 C99MODE= $(C99_ENABLE)

1152 # libc method of building an archive
1153 # The "$(GREP) -v ' L '" part is necessary only until
1154 # the order is fixed to ignore thread-local variables.
1155 BUILD.AR= $(RM) $@ ; \
1156 $(AR) q $@ '$(LORDER) $(MOSTOBS:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1158 # extra files for the clean target
1159 CLEANFILES= \
1160 $(LIBCDIR)/port/gen/errlst.c \
1161 $(LIBCDIR)/port/gen/new_list.c \
1162 assym.h \
1163 genassym \
1164 $(LIBCBASE)/crt/_rtld.s \
1165 $(LIBCBASE)/crt/_rtbootld.s \
1166 pics/_rtbootld.o \
1167 pics/crti.o \
1168 pics/crtn.o \
1169 $(ALTPICS)

1171 CLOBBERFILES += $(LIB_PIC)

```

```

1173 # list of C source for lint
1174 SRCS=
1175 $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c)
1176 $(XATROBJS:%.o=$(SRC)/common/xattr/%.c)
1177 $(COMOBJS:%.o=$(SRC)/common/util/%.c)
1178 $(DTRACEOBJS:%.o=$(SRC)/common/dtrace/%.c)
1179 $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c)
1180 $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c)
1181 $(PORTI18N:%.o=$(LIBCDIR)/port/il8n/%.c)
1182 $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c)
1183 $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c)
1184 $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c)
1185 $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c)
1186 $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c)
1187 $(AIOBJS:%.o=$(LIBCDIR)/port/aio/%.c)
1188 $(RTOBJS:%.o=$(LIBCDIR)/port/rt/%.c)
1189 $(SECFLAGSOBJS:%.o=$(SRC)/common/secflags/%.c)
1190 $(TPOOLBJS:%.o=$(LIBCDIR)/port/tpool/%.c)
1191 $(THREADSOBJS:%.o=$(LIBCDIR)/port/threads/%.c)
1192 $(THREADSMACHOBJS:%.o=$(LIBCDIR)/$(MACH)/threads/%.c)
1193 $(UNICODEOBJS:%.o=$(SRC)/common/unicode/%.c)
1194 $(UNWINDMACHOBJS:%.o=$(LIBCDIR)/port/unwind/%.c)
1195 $(FPOBJS:%.o=$(LIBCDIR)/$(MACH)/fp/%.c)
1196 $(LIBCBASE)/crt/_ftou.c
1197 $(LIBCBASE)/gen/_xregs_clrpr.c
1198 $(LIBCBASE)/gen/byteorder.c
1199 $(LIBCBASE)/gen/ecvt.c
1200 $(LIBCBASE)/gen/endian.c
1201 $(LIBCBASE)/gen/getctxt.c
1202 $(LIBCBASE)/gen/lmul.c
1203 $(LIBCBASE)/gen/makectxt.c
1204 $(LIBCBASE)/gen/siginfofst.c
1205 $(LIBCBASE)/gen/siglongjmp.c
1206 $(LIBCBASE)/gen/swapctxt.c
1207 $(LIBCBASE)/sys/ptrace.c
1208 $(LIBCBASE)/sys/uadmin.c

1210 # conditional assignments
1211 $(DYNLIB) := CRTI = crti.o
1212 $(DYNLIB) := CRTN = crtn.o

1214 # Files which need the threads .il inline template
1215 TIL=
1216 aio.o
1217 alloc.o
1218 assfail.o
1219 atexit.o
1220 atfork.o
1221 cancel.o
1222 door_calls.o
1223 err.o
1224 errno.o
1225 getctxt.o
1226 lwp.o
1227 ma.o
1228 machdep.o
1229 posix_aio.o
1230 pthr_attr.o
1231 pthr_barrier.o
1232 pthr_cond.o
1233 pthr_mutex.o
1234 pthr_rwlock.o
1235 pthread.o
1236 rand.o
1237 rwlock.o
1238 scalls.o

```

```

1239 sched.o
1240 sema.o
1241 sigaction.o
1242 sigev_thread.o
1243 spawn.o
1244 stack.o
1245 swapctxt.o
1246 synch.o
1247 tdb_agent.o
1248 thr.o
1249 thread_interface.o
1250 thread_pool.o
1251 tls.o
1252 tsd.o
1253 unwind.o

1255 $(TIL:%=pics%) := CFLAGS += $(LIBCBASE)/threads/sparc.il

1257 # special kludge for inlines with 'cas':
1258 pics/rwlock.o pics/synch.o pics/lwp.o pics/door_calls.o := \
1259     sparc_CFLAGS += -_gcc=-Wa,-xarch=v8plus

1261 # Files in port/fp subdirectory that need base.il inline template
1262 IL=
1263 __flt_decim.o
1264 decimal_bin.o

1266 $(IL:%=pics%) := CFLAGS += $(LIBCBASE)/fp/base.il

1268 # Files in fp subdirectory which need __quad.il inline template
1269 QIL=
1270 __Q_add.o
1271 __Q_cmp.o
1272 __Q_cmpe.o
1273 __Q_div.o
1274 __Q_dtoq.o
1275 __Q_fcc.o
1276 __Q_mul.o
1277 __Q_qtod.o
1278 __Q_qtoi.o
1279 __Q_qtos.o
1280 __Q_qtou.o
1281 __Q_sqrt.o
1282 __Q_stoq.o
1283 __Q_sub.o

1285 $(QIL:%=pics%) := CFLAGS += $(LIBCDIR)/$(MACH)/fp/__quad.il
1286 pics/_Q%.o := sparc_COPTFLAG = -xO4 -dalign
1287 pics/__quad%.o := sparc_COPTFLAG = -xO4 -dalign

1289 # large-file-aware components that should be built large

1291 $(COMSYSOBS64:%=pics%) := \
1292     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1294 $(SYSOBS64:%=pics%) := \
1295     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1297 $(PORTGEN64:%=pics%) := \
1298     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1300 $(PORTREGEX64:%=pics%) := \
1301     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1303 $(PORTSTDIO64:%=pics%) := \
1304     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

```

```

1306 $(PORTSYS64:%=pics/) := \
1307     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1309 $(PORTSTDIO_W:%=pics/) := \
1310     CPPFLAGS += -D_WIDE

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

1315 # printf/scanf functions to support c89-sized intmax_t variables
1316 $(PORTPRINT_C89:%=pics/) := \
1317     CPPFLAGS += -D_C89_INTMAX32

1319 $(PORTSTDIO_C89:%=pics/) := \
1320     CPPFLAGS += -D_C89_INTMAX32

1322 $(PORTI18N_COND:%=pics/) := \
1323     CPPFLAGS += -D_WCS_LONGLONG

1325 pics/arc4random.o :=     CPPFLAGS += -I$(SRC)/common/crypto/chacha

1327 # Files which need extra optimization
1328 pics/getenv.o := sparc_COPTFLAG = -x04

1330 .KEEP_STATE:

1332 all: $(LIBS) $(LIB_PIC)

1334 lint :=     CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1335 lint :=     CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1336 lint :=     LINTFLAGS += -mn

1338 lint:
1339     @echo $(LINT.c) ... $(LDLIBS)
1340     @$$(LINT.c) $(SRCS) $(LDLIBS)

1342 $(LINTLIB):= SRCS=$(LIBCDIR)/port/l1ib-1c
1343 $(LINTLIB):= CPPFLAGS += -D_MSE_INT_H
1344 $(LINTLIB):= LINTFLAGS=-nvx

1346 # object files that depend on inline template
1347 $(TIL:%=pics/): $(LIBCBASE)/threads/sparc.il
1348 $(IL:%=pics/): $(LIBCBASE)/fp/base.il
1349 $(QIL:%=pics/): $(LIBCDIR)/$(MACH)/fp/__quad.il

1351 # include common libc targets
1352 include $(LIBCDIR)/Makefile.targ

1354 # We need to strip out all CTF and DOF data from the static library
1355 $(LIB_PIC) := DIR = pics
1356 $(LIB_PIC): pics $$$(PICS)
1357     $(BUILD.AR)
1358     $(MCS) -d -n .SUNW_ctf $$@ > /dev/null 2>&1
1359     $(MCS) -d -n .SUNW_dof $$@ > /dev/null 2>&1
1360     $(AR) -ts $$@ > /dev/null
1361     $(POST_PROCESS_A)

1363 # special cases
1364 $(STRETS:%=pics/): $(LIBCBASE)/crt/stret.s
1365     $(AS) $(ASFLAGS) -DSTRET$(@F:stret%.o=) $(LIBCBASE)/crt/stret.s -o $$@
1366     $(POST_PROCESS_O)

1368 $(LIBCBASE)/crt/_rtbootld.s: $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.
1369     $(CC) $(CPPFLAGS) $(CTF_FLAGS) -O -S -K pic \
1370     $(LIBCBASE)/crt/_rtld.c -o $(LIBCBASE)/crt/_rtld.s

```

```

1371     $(CAT) $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.s > $$@
1372     $(RM) $(LIBCBASE)/crt/_rtld.s

1374 # partially built from C source
1375 pics/_rtbootld.o: $(LIBCBASE)/crt/_rtbootld.s
1376     $(AS) $(ASFLAGS) $(LIBCBASE)/crt/_rtbootld.s -o $$@
1377     $(CTFCONVERT_O)

1379 ASSYMDEP_OBJS= \
1380     _lwp_mutex_unlock.o \
1381     _stack_grow.o \
1382     asm_subr.o \
1383     setjmp.o \
1384     smt_pause.o \
1385     tls_get_addr.o \
1386     unwind_frame.o \
1387     vforkx.o

1389 $(ASSYMDEP_OBJS:%=pics/) :=     CPPFLAGS += -I.

1391 $(ASSYMDEP_OBJS:%=pics/): assym.h

1393 # assym.h build rules

1395 assym.h := CFLAGS += -g

1397 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c

1399 genassym: $(GENASSYM_C)
1400     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \
1401     $(CPPFLAGS.native) -o $$@ $(GENASSYM_C)

1403 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in

1405 assym.h: $(OFFSETS) genassym
1406     $(OFFSETS_CREATE) <$(OFFSETS) >$$@
1407     ./genassym >>$$@

1409 # derived C source and related explicit dependencies
1410 $(LIBCDIR)/port/gen/errlst.c + \
1411 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1412     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist

1414 pics/errlst.o: $(LIBCDIR)/port/gen/errlst.c

1416 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c

```



```

*****
25041 Tue Dec 6 18:26:06 2016
new/usr/src/lib/libc/sparcv9/Makefile.com
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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30 #

32 LIBCDIR=      $(SRC)/lib/libc
33 LIB_PIC=      libc_pic.a
34 VERS=        .1
35 CPP=         /usr/lib/cpp
36 TARGET_ARCH= sparc

38 # objects are grouped by source directory

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

49 # local objects
50 STRETS=

52 CRTOBS=

```

```

53   __align_cpy_2.o \
54   __align_cpy_4.o \
55   __align_cpy_8.o \
56   _ftou.o \
57   cerror.o

59 DYNOBJS=

61 FPOBJS=
62   _D_cplx_div.o \
63   _D_cplx_div_ix.o \
64   _D_cplx_div_rx.o \
65   _D_cplx_mul.o \
66   _F_cplx_div.o \
67   _F_cplx_div_ix.o \
68   _F_cplx_div_rx.o \
69   _F_cplx_mul.o \
70   _Q_add.o \
71   _Q_cmp.o \
72   _Q_cmpe.o \
73   _Q_cplx_div.o \
74   _Q_cplx_div_ix.o \
75   _Q_cplx_div_rx.o \
76   _Q_cplx_lr_div.o \
77   _Q_cplx_lr_div_ix.o \
78   _Q_cplx_lr_div_rx.o \
79   _Q_cplx_lr_mul.o \
80   _Q_cplx_mul.o \
81   _Q_div.o \
82   _Q_dtoq.o \
83   _Q_fcc.o \
84   _Q_itoq.o \
85   _Q_mul.o \
86   _Q_neg.o \
87   _Q_qtod.o \
88   _Q_qtoi.o \
89   _Q_qtos.o \
90   _Q_qtou.o \
91   _Q_scl.o \
92   _Q_sqrt.o \
93   _Q_stoq.o \
94   _Q_sub.o \
95   _Q_utoq.o

97 FPOBJS64=
98   _Qp_qtox.o \
99   _Qp_qtoux.o \
100  _Qp_xtoq.o \
101  _Qp_uxtoq.o \
102  __dtoul.o \
103  __ftoul.o

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

115 $(__GNUCC)FPASMOBJS +=
116  __quad.o

118 ATOMICOBJS=

```

```

119     atomic.o

121 CHACHAobjs=
122     chacha.o

124 XATTRobjs=
125     xattr_common.o

127 COMObjs=
128     bcmp.o
129     bcopy.o
130     bsearch.o
131     bzero.o
132     memccpy.o
133     qsort.o
134     strtol.o
135     strtoul.o
136     strtoll.o
137     strtoull.o

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

171 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
172 # This macro should ALWAYS be empty; native APIs are already 'large file'.
173 COMSYSObjs64=

175 SYSObjs64=

177 COMSYSObjs=
178     __clock_timer.o
179     __getloadavg.o
180     __rusagesys.o
181     __signotify.o
182     __sigrt.o
183     __time.o
184     _lgrp_home_fast.o

```

```

185     _lgrpsys.o
186     _nfssys.o
187     _portfs.o
188     _pset.o
189     _rpcsys.o
190     _sigaction.o
191     _so_accept.o
192     _so_bind.o
193     _so_connect.o
194     _so_getpeername.o
195     _so_getsockname.o
196     _so_getsockopt.o
197     _so_listen.o
198     _so_recv.o
199     _so_recvfrom.o
200     _so_recvmsg.o
201     _so_send.o
202     _so_sendmsg.o
203     _so_sendto.o
204     _so_setsockopt.o
205     _so_shutdown.o
206     _so_socket.o
207     _so_socketpair.o
208     _sockconfig.o
209     acct.o
210     acl.o
211     adjtime.o
212     alarm.o
213     brk.o
214     chdir.o
215     chroot.o
216     cladm.o
217     close.o
218     execve.o
219     exit.o
220     facl.o
221     fchdir.o
222     fchroot.o
223     fdsync.o
224     fpathconf.o
225     fstatfs.o
226     fstatvfs.o
227     getcpuid.o
228     getdents.o
229     getegid.o
230     geteuid.o
231     getgid.o
232     getgroups.o
233     gethrtime.o
234     getitimer.o
235     getmsg.o
236     getpid.o
237     getpmsg.o
238     getppid.o
239     getrandom.o
240     getrlimit.o
241     getuid.o
242     gtty.o
243     install_utrap.o
244     ioctl.o
245     kaio.o
246     kill.o
247     llseek.o
248     lseek.o
249     memcntl.o
250     mincore.o

```

```

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

311 SYSOBSJS= \
312 __clock_gettime.o \
313 __getcontext.o \
314 __uadmin.o \
315 __lwp_mutex_unlock.o \
316 __stack_grow.o \

```

```

317 door.o \
318 forkx.o \
319 forkallx.o \
320 gettimeofday.o \
321 sparc_utrap_install.o \
322 syscall.o \
323 tls_get_addr.o \
324 uadmin.o \
325 umount.o \
326 uname.o \
327 vforkx.o \

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

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

363 PORTGEN= \
364 __env_data.o \
365 __xftw.o \
366 a64l.o \
367 abort.o \
368 addsev.o \
369 ascii_strncasecmp.o \
370 assert.o \
371 attrat.o \
372 atof.o \
373 atoi.o \
374 atol.o \
375 atoll.o \
376 attropen.o \
377 atexit.o \
378 atfork.o \
379 basename.o \
380 calloc.o \
381 catgets.o \
382 catopen.o \

```

```

383      cfgetispeed.o      \|
384      cfgetospeed.o     \|
385      cfree.o           \|
386      cfsetispeed.o     \|
387      cfsetospeed.o     \|
388      cftime.o          \|
389      clock.o           \|
390      closedir.o        \|
391      closefrom.o       \|
392      confstr.o         \|
393      crypt.o           \|
394      csetlen.o         \|
395      ctime.o           \|
396      ctime_r.o         \|
397      daemon.o         \|
398      deflt.o           \|
399      directio.o        \|
400      dirname.o         \|
401      div.o             \|
402      drand48.o         \|
403      dup.o             \|
404      env_data.o        \|
405      err.o             \|
406      errno.o          \|
407      euclen.o          \|
408      event_port.o      \|
409      execvp.o          \|
410      explicit_bzero.o  \|
411      fattach.o         \|
412      fdetach.o        \|
413      fdopendir.o       \|
414      ffs.o             \|
415      flock.o           \|
416      fls.o             \|
417      fmtmsg.o          \|
418      ftime.o           \|
419      ftok.o            \|
420      ftw.o             \|
421      gcvt.o            \|
422      getauxv.o         \|
423      getcwd.o          \|
424      getdate_err.o     \|
425      getdtblsize.o    \|
426      getentropy.o     \|
427      getenv.o          \|
428      getexecname.o    \|
429      getgrnam.o        \|
430      getgrnam_r.o      \|
431      gethostid.o       \|
432      gethostname.o     \|
433      gethz.o           \|
434      getisax.o         \|
435      getloadavg.o      \|
436      getlogin.o        \|
437      getmntent.o       \|
438      getnetgrent.o     \|
439      get_nprocs.o      \|
440      getopt.o          \|
441      getopt_long.o     \|
442      getpagesize.o     \|
443      getpw.o           \|
444      getpwnam.o        \|
445      getpwnam_r.o      \|
446      getrusage.o       \|
447      getspent.o        \|
448      getspent_r.o      \|

```

```

449      getsubopt.o      \|
450      gettxt.o          \|
451      getusershell.o   \|
452      getut.o           \|
453      getutx.o          \|
454      getvfsent.o       \|
455      getwd.o           \|
456      getwidth.o        \|
457      getxby_door.o    \|
458      gtxt.o            \|
459      hsearch.o         \|
460      iconv.o           \|
461      imaxabs.o         \|
462      imaxdiv.o         \|
463      index.o           \|
464      initgroups.o     \|
465      insque.o          \|
466      isaexec.o         \|
467      isastream.o       \|
468      isatty.o          \|
469      killpg.o          \|
470      klpdlib.o         \|
471      l64a.o            \|
472      lckpwwdf.o        \|
473      lconstants.o     \|
474      ldivide.o         \|
475      lexpl0.o          \|
476      lfind.o           \|
477      lfmt.o            \|
478      lfmt_log.o        \|
479      lldiv.o           \|
480      llogl0.o          \|
481      lltostr.o         \|
482      lmath.o           \|
483      localtime.o      \|
484      lsearch.o         \|
485      madvise.o         \|
486      malloc.o          \|
487      memalign.o        \|
488      memmem.o          \|
489      mkdev.o           \|
490      mkdtemp.o         \|
491      mkfifo.o          \|
492      mkstemp.o         \|
493      mktemp.o          \|
494      mlock.o           \|
495      mlockall.o        \|
496      mon.o             \|
497      msync.o           \|
498      munlock.o         \|
499      munlockall.o     \|
500      ndbm.o            \|
501      nftw.o            \|
502      nlspath_checks.o  \|
503      nspare.o          \|
504      nss_common.o      \|
505      nss_dbdefs.o      \|
506      nss_deffinder.o   \|
507      opendir.o         \|
508      opt_data.o        \|
509      perror.o          \|
510      pfmt.o            \|
511      pfmt_data.o       \|
512      pfmt_print.o      \|
513      pipe.o            \|
514      plock.o           \|

```

```

515 poll.o \
516 posix_fadvise.o \
517 posix_fallocate.o \
518 posix_madvise.o \
519 posix_memalign.o \
520 priocntl.o \
521 privlib.o \
522 priv_str_xlate.o \
523 psecflags.o \
524 psiginfo.o \
525 psignal.o \
526 pt.o \
527 putpwent.o \
528 putsptent.o \
529 raise.o \
530 rand.o \
531 random.o \
532 rctlops.o \
533 readdir.o \
534 readdir_r.o \
535 realpath.o \
536 reboot.o \
537 regexpr.o \
538 remove.o \
539 rewinddir.o \
540 rindex.o \
541 scandir.o \
542 seekdir.o \
543 select.o \
544 setlabel.o \
545 setpriority.o \
546 settimeofday.o \
547 sh_locks.o \
548 sigflag.o \
549 siglist.o \
550 sigsend.o \
551 sigsetops.o \
552 ssignal.o \
553 stack.o \
554 stpcpy.o \
555 stpncpy.o \
556 str2sig.o \
557 strcase_ucharmp.o \
558 strcat.o \
559 strchrnul.o \
560 strcspn.o \
561 strdup.o \
562 strerror.o \
563 strlcat.o \
564 strncat.o \
565 strndup.o \
566 strpbrk.o \
567 strrchr.o \
568 strsep.o \
569 strsignal.o \
570 strspn.o \
571 strstr.o \
572 strtod.o \
573 strtoumax.o \
574 strtok.o \
575 strtok_r.o \
576 strtoumax.o \
577 swab.o \
578 swapctl.o \
579 sysconf.o \
580 syslog.o \

```

```

581 tcdrain.o \
582 tcflow.o \
583 tcflush.o \
584 tcgetattr.o \
585 tcgetpgrp.o \
586 tcgetsid.o \
587 tcsendbreak.o \
588 tcsetattr.o \
589 tcsetpgrp.o \
590 tell.o \
591 telldir.o \
592 tfind.o \
593 time_data.o \
594 time_gdata.o \
595 timespec_get.o \
596 tls_data.o \
597 truncate.o \
598 tsdalloc.o \
599 tsearch.o \
600 ttyname.o \
601 ttyslot.o \
602 ualarm.o \
603 ucred.o \
604 valloc.o \
605 vlfmt.o \
606 vpfmt.o \
607 waitpid.o \
608 walkstack.o \
609 wdata.o \
610 xgetwidth.o \
611 xpg4.o \
612 xpg6.o \
614 PORTPRINT_W= \
615 doprnt_w.o \
617 PORTPRINT= \
618 asprintf.o \
619 doprnt.o \
620 fprintf.o \
621 printf.o \
622 snprintf.o \
623 sprintf.o \
624 vfprintf.o \
625 vprintf.o \
626 vsnprintf.o \
627 vsprintf.o \
628 vwprintf.o \
629 wprintf.o \
631 # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
632 # This macro should ALWAYS be empty; native APIs are already 'large file'.
633 PORTSTDIO64= \
635 PORTSTDIO_W= \
636 doscan_w.o \
638 PORTSTDIO= \
639 __extensions.o \
640 __endopen.o \
641 __filbuf.o \
642 __findbuf.o \
643 __flsbuf.o \
644 __wrtchk.o \
645 clearerr.o \
646 ctermid.o \

```

```

647      ctermid_r.o      \|
648      cuserid.o        \|
649      data.o           \|
650      doscan.o         \|
651      fdopen.o         \|
652      feof.o           \|
653      ferrord.o        \|
654      fgetc.o          \|
655      fgets.o          \|
656      fileno.o         \|
657      flockf.o        \|
658      flush.o          \|
659      fopen.o          \|
660      fpos.o           \|
661      fputc.o          \|
662      fputs.o          \|
663      fread.o          \|
664      fseek.o          \|
665      fseeko.o         \|
666      ftell.o          \|
667      ftello.o         \|
668      fwrite.o         \|
669      getc.o           \|
670      getchar.o        \|
671      getline.o        \|
672      getpass.o        \|
673      gets.o           \|
674      getw.o           \|
675      popen.o          \|
676      putc.o           \|
677      putchar.o        \|
678      puts.o           \|
679      putw.o           \|
680      rewind.o         \|
681      scanf.o          \|
682      setbuf.o         \|
683      setbuffer.o      \|
684      setvbuf.o        \|
685      system.o         \|
686      tempnam.o        \|
687      tmpfile.o        \|
688      tmpnam_r.o       \|
689      ungetc.o         \|
690      mse.o            \|
691      vscanf.o         \|
692      vwscanf.o        \|
693      wscanf.o         \|
695 PORTI18N=          \|
696      getwchar.o       \|
697      putwchar.o       \|
698      putws.o          \|
699      strtows.o        \|
700      wcsnlen.o        \|
701      wcstoimax.o     \|
702      wcstol.o         \|
703      wcstoul.o        \|
704      wswcs.o          \|
705      wscat.o          \|
706      wschr.o          \|
707      wscmp.o          \|
708      wscpy.o          \|
709      wscspn.o         \|
710      wsdup.o          \|
711      wslen.o          \|
712      wscat.o          \|

```

```

713      wncmp.o          \|
714      wncpy.o          \|
715      wspbrk.o         \|
716      wsprintf.o       \|
717      wsrchr.o         \|
718      wscanf.o         \|
719      wssp.o           \|
720      wstod.o          \|
721      wstok.o          \|
722      wstol.o          \|
723      wstoll.o         \|
724      wsxfrm.o         \|
725      wmemchr.o        \|
726      wmemcmp.o        \|
727      wmemcpy.o        \|
728      wmemmove.o       \|
729      wmemset.o        \|
730      wcsstr.o         \|
731      gettext.o        \|
732      gettext_real.o   \|
733      gettext_util.o   \|
734      gettext_gnu.o    \|
735      plural_parser.o  \|
736      wdresolve.o      \|
737      _ctype.o         \|
738      isascii.o        \|
739      toascii.o        \|
741 PORTI18N_COND=     \|
742      wcstol_longlong.o \|
743      wcstoul_longlong.o \|
745 PORTLOCALE=        \|
746      big5.o           \|
747      btowc.o          \|
748      collate.o        \|
749      collcmp.o        \|
750      euc.o            \|
751      fnmatch.o        \|
752      fgetwc.o         \|
753      fgetws.o         \|
754      fix_grouping.o   \|
755      fputwc.o         \|
756      fputws.o         \|
757      fwide.o          \|
758      gb18030.o        \|
759      gb2312.o         \|
760      gbk.o            \|
761      getdate.o        \|
762      isdigit.o        \|
763      iswctype.o       \|
764      ldpart.o         \|
765      lmessages.o      \|
766      lnumeric.o       \|
767      lmonetary.o      \|
768      localeconv.o     \|
769      localeimpl.o     \|
770      mbftowc.o        \|
771      mblen.o          \|
772      mbrlen.o         \|
773      mbrtowc.o        \|
774      mbsinit.o        \|
775      mbsnrto wcs.o    \|
776      mbsrtowcs.o     \|
777      mbstowcs.o       \|
778      mbtowc.o         \|

```

```

779      mskanji.o          \
780      nextwctype.o       \
781      nl_langinfo.o      \
782      none.o             \
783      regcomp.o          \
784      regfree.o          \
785      regerror.o         \
786      regex.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      strptime.o         \
796      strncasecmp.o      \
797      strptime.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 TPOOLBS=               \
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      exactsys.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     pgrpsys.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     regex.o          \
952     wordexp.o        \
\
954 VALUES= values-Xa.o
\
956 MOSTOBSJS=         \
957     $(STRETS)        \
958     $(CRTOBSJS)      \
959     $(DYNOBJS)       \
960     $(FPOBSJS)       \
961     $(FPOBSJS64)     \
962     $(FPASMOBSJS)    \
963     $(ATOMICOBJS)    \
964     $(CHACHAOBSJS)   \
965     $(XATTROBSJS)    \
966     $(COMOBSJS)      \
967     $(GENOBSJS)      \
968     $(PRFOBSJS)     \
969     $(PORTFP)        \
970     $(PORTGEN)       \
971     $(PORTGEN64)     \
972     $(PORTI18N)      \
973     $(PORTI18N_COND) \
974     $(PORTLOCALE)    \
975     $(PORTPRINT)     \
976     $(PORTPRINT_W)   \

```

```

977     $(PORTREGEX)     \
978     $(PORTSTDIO)     \
979     $(PORTSTDIO64)   \
980     $(PORTSTDIO_W)   \
981     $(PORTSYS)       \
982     $(PORTSYS64)     \
983     $(AIOOBSJS)      \
984     $(RTOBSJS)       \
985     $(SECFLAGSOBSJS) \
986     $(TPOOLOBSJS)    \
987     $(THREADSOBSJS)  \
988     $(THREADSMACHOBSJS) \
989     $(THREADSASMOBSJS) \
990     $(UNICODEOBSJS)  \
991     $(UNWINDMACHOBSJS) \
992     $(UNWINDASMOBSJS) \
993     $(COMSYSOBSJS)   \
994     $(SYSOBSJS)      \
995     $(COMSYSOBSJS64) \
996     $(SYSOBSJS64)   \
997     $(VALUES)        \
\
999 TRACEOBSJS=       \
1000     plockstat.o    \
\
1002 # NOTE: libc.so.1 must be linked with the minimal crt1.o and crtn.o
1003 # modules whose source is provided in the $(SRC)/lib/crt directory.
1004 # modules whose source is provided in the $(SRC)/lib/common directory.
1005 # This must be done because otherwise the Sun C compiler would insert
1006 # its own versions of these modules and those versions contain code
1007 # to call out to C++ initialization functions. Such C++ initialization
1008 # functions can call back into libc before thread initialization is
1009 # complete and this leads to segmentation violations and other problems.
1010 # Since libc contains no C++ code, linking with the minimal crt1.o and
1011 # crtn.o modules is safe and avoids the problems described above.
1012 OBJECTS= $(CRTI) $(MOSTOBSJS) $(CRTN)
1013 CRTSRCS= ../../crt/sparcv9
1014 CRTSRCS= ../../common/sparcv9
\
1014 # include common library definitions
1015 include $(SRC)/lib/Makefile.lib
1016 include $(SRC)/lib/Makefile.lib.64
\
1018 # we need to override the default SONAME here because we might
1019 # be building a variant object (still libc.so.1, but different filename)
1020 SONAME = libc.so.1
\
1022 CFLAGS64 += $(CCVERBOSE)
\
1024 # This is necessary to avoid problems with calling _ex_unwind().
1025 # We probably don't want any inlining anyway.
1026 CFLAGS64 += -xinline=
\
1028 CERRWARN += _gcc=-Wno-parentheses
1029 CERRWARN += _gcc=-Wno-switch
1030 CERRWARN += _gcc=-Wno-uninitialized
1031 CERRWARN += _gcc=-Wno-unused-value
1032 CERRWARN += _gcc=-Wno-unused-label
1033 CERRWARN += _gcc=-Wno-unused-variable
1034 CERRWARN += _gcc=-Wno-type-limits
1035 CERRWARN += _gcc=-Wno-char-subscripts
1036 CERRWARN += _gcc=-Wno-clobbered
1037 CERRWARN += _gcc=-Wno-unused-function
1038 CERRWARN += _gcc=-Wno-address
\
1040 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)

```



```

1041 # enables ASSERT() checking in the threads portion of the library.
1042 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1043 THREAD_DEBUG =
1044 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1046 # Make string literals read-only to save memory.
1047 CFLAGS64 += $(XSTRCONST)

1049 ALTPICS= $(TRACEOBSJ:%=pics/%)

1051 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)

1053 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1055 sparcv9_C_PICFLAGS= -K PIC
1056 CFLAGS64 += $(EXTN_CFLAGS)
1057 CPPFLAGS= -D_REENTRANT -Dsparc $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1058 -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1059 ASFLAGS= $(EXTN_ASFLAGS) -K PIC -P -D__STDC__ -D__ASM -D__sparcv9 $(CPPFLA
1060 $(sparcv9_AS_XARCH)

1062 # As a favor to the dtrace syscall provider, libc still calls the
1063 # old syscall traps that have been obsoleted by the *at() interfaces.
1064 # Delete this to compile libc using only the new *at() system call traps
1065 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1067 # Inform the run-time linker about libc specialized initialization
1068 RTLDINFO = -z rtldinfo=tls_rtlldinfo
1069 DYNFLAGS += $(RTLDINFO)

1071 # Force libc's internal references to be resolved immediately upon loading
1072 # in order to avoid critical region problems. Since almost all libc symbols
1073 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1074 DYNFLAGS += -znow

1076 DYNFLAGS += $(EXTN_DYNFLAGS)

1078 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1080 # Override this top level flag so the compiler builds in its native
1081 # C99 mode. This has been enabled to support the complex arithmetic
1082 # added to libc.
1083 C99MODE= $(C99_ENABLE)

1085 # libc method of building an archive
1086 # The "$(GREP) -v ' L ' " part is necessary only until
1087 # lorder is fixed to ignore thread-local variables.
1088 BUILD.AR= $(RM) $@ ; \
1089 $(AR) q $@ $(LORDER) $(MOSTOBSJ:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1091 # extra files for the clean target
1092 CLEANFILES= \
1093 $(LIBCDIR)/port/gen/errlst.c \
1094 $(LIBCDIR)/port/gen/new_list.c \
1095 assym.h \
1096 genassym \
1097 pics/crti.o \
1098 pics/crtn.o \
1099 $(ALTPICS)

1101 CLOBBERFILES += $(LIB_PIC)

1103 # list of C source for lint
1104 SRCS= \
1105 $(ATOMICOBJS:%=$(SRC)/common/atomic/%.c) \
1106 $(XATTROBJS:%=$(SRC)/common/xattr/%.c) \

```

```

1107 $(COMOBSJ:%=$(SRC)/common/util/%.c) \
1108 $(PORTFP:%=$(LIBCDIR)/port/fp/%.c) \
1109 $(PORTGEN:%=$(LIBCDIR)/port/gen/%.c) \
1110 $(PORTI18N:%=$(LIBCDIR)/port/i18n/%.c) \
1111 $(PORTLOCALE:%=$(LIBCDIR)/port/locale/%.c) \
1112 $(PORTPRINT:%=$(LIBCDIR)/port/print/%.c) \
1113 $(PORTREGEX:%=$(LIBCDIR)/port/regex/%.c) \
1114 $(PORTSTDIO:%=$(LIBCDIR)/port/stdio/%.c) \
1115 $(PORTSYS:%=$(LIBCDIR)/port/sys/%.c) \
1116 $(AIOOBSJ:%=$(LIBCDIR)/port/aio/%.c) \
1117 $(RTOBSJ:%=$(LIBCDIR)/port/rt/%.c) \
1118 $(SECFLAGSOBSJ:%=$(SRC)/common/secflags/%.c) \
1119 $(TPOOLOBSJ:%=$(LIBCDIR)/port/tpool/%.c) \
1120 $(THREADSOBSJ:%=$(LIBCDIR)/port/threads/%.c) \
1121 $(THREADSMACHOBSJ:%=$(LIBCDIR)/$(MACH)/threads/%.c) \
1122 $(UNICODEOBSJ:%=$(SRC)/common/unicode/%.c) \
1123 $(UNWINDMACHOBSJ:%=$(LIBCDIR)/port/unwind/%.c) \
1124 $(FPOBSJ:%=$(LIBCDIR)/$(MACH)/fp/%.c) \
1125 $(FPOBSJ64:%=$(LIBCBASE)/fp/%.c) \
1126 $(LIBCBASE)/crt/_ftou.c \
1127 $(LIBCBASE)/gen/_xregs_clrptr.c \
1128 $(LIBCBASE)/gen/byteorder.c \
1129 $(LIBCBASE)/gen/endian.c \
1130 $(LIBCBASE)/gen/ecvt.c \
1131 $(LIBCBASE)/gen/getctxt.c \
1132 $(LIBCBASE)/gen/makeectxt.c \
1133 $(LIBCBASE)/gen/signifolst.c \
1134 $(LIBCBASE)/gen/siglongjmp.c \
1135 $(LIBCBASE)/gen/swapctxt.c

1137 # conditional assignments
1138 $(DYNLIB) := CRTI = crt.i.o
1139 $(DYNLIB) := CRTN = crtn.o

1141 # Files which need the threads .il inline template
1142 TIL= \
1143 aio.o \
1144 alloc.o \
1145 assfail.o \
1146 atexit.o \
1147 atfork.o \
1148 cancel.o \
1149 door_calls.o \
1150 err.o \
1151 errno.o \
1152 getctxt.o \
1153 lwp.o \
1154 ma.o \
1155 machdep.o \
1156 posix_aio.o \
1157 pthr_attr.o \
1158 pthr_barrier.o \
1159 pthr_cond.o \
1160 pthr_mutex.o \
1161 pthr_rwlock.o \
1162 pthread.o \
1163 rand.o \
1164 rwlock.o \
1165 scalls.o \
1166 sched.o \
1167 sema.o \
1168 sigaction.o \
1169 sigev_thread.o \
1170 spawn.o \
1171 stack.o \
1172 swapctxt.o \

```

```

1173     synch.o           \
1174     tdb_agent.o       \
1175     thr.o             \
1176     thread_interface.o \
1177     thread_pool.o     \
1178     tls.o             \
1179     tsd.o             \
1180     unwind.o          \

1182 $(TIL:%=pics%) := CFLAGS64 += $(LIBCBASE)/threads/sparcv9.il

1184 # Files in fp, port/fp subdirectories that need base.il inline template
1185 IL=
1186     __flt_decim.o     \
1187     decimal_bin.o    \

1189 $(IL:%=pics%) := CFLAGS64 += $(LIBCBASE)/fp/base.il

1191 # Files in fp subdirectory which need __quad.il inline template
1192 QIL=
1193     __Q_add.o         \
1194     __Q_cmp.o         \
1195     __Q_cmpe.o        \
1196     __Q_div.o         \
1197     __Q_dtoq.o        \
1198     __Q_fcc.o         \
1199     __Q_mul.o         \
1200     __Q_qtod.o        \
1201     __Q_qtoi.o        \
1202     __Q_qtos.o        \
1203     __Q_qtou.o        \
1204     __Q_sqrt.o        \
1205     __Q_stoq.o        \
1206     __Q_sub.o         \
1207     __Qp_qtox.o       \
1208     __Qp_qtoux.o      \

1210 $(QIL:%=pics%) := CFLAGS64 += $(LIBCDIR)/$(MACH)/fp/__quad.il
1211 pics/_Op%.o := CFLAGS64 += -I$(LIBCDIR)/$(MACH)/fp
1212 pics/_Q%.o := sparcv9_COPTFLAG = -x04 -xchip=ultra

1214 # Files in crt subdirectory which need muldiv64.il inline template
1215 #CIL= mul64.o divrem64.o
1216 #$(CIL:%=pics%) := CFLAGS += $(LIBCBASE)/crt/mul64.il

1218 # large-file-aware components that should be built large

1220 #$(COMSYSOBS64:%=pics%) := \
1221 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1223 #$(SYSOBS64:%=pics%) := \
1224 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1226 #$(PORTGEN64:%=pics%) := \
1227 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1229 #$(PORTSTDIO64:%=pics%) := \
1230 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1232 #$(PORTSYS64:%=pics%) := \
1233 #     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1235 $(PORTSTDIO_W:%=pics%) := \
1236     CPPFLAGS += -D_WIDE

1238 $(PORTPRINT_W:%=pics%) := \

```

```

1239     CPPFLAGS += -D_WIDE

1241 $(PORTI18N_COND:%=pics%) := \
1242     CPPFLAGS += -D_WCS_LOGLONG

1244 pics/arc4random.o :=     CPPFLAGS += -I$(SRC)/common/crypto/chacha

1246 # Files which need extra optimization
1247 pics/getenv.o := sparcv9_COPTFLAG = -x04

1249 .KEEP_STATE:

1251 all: $(LIBS) $(LIB_PIC)

1253 lint :=     CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1254 lint :=     CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1255 lint :=     LINTFLAGS64 += -mn

1257 lint:
1258     @echo $(LINT.c) ... $(LDLIBS)
1259     @$$(LINT.c) $$(SRCS) $$(LDLIBS)

1261 $(LINTLIB) := SRCS=$(LIBCDIR)/port/l1ib-1c
1262 $(LINTLIB) := CPPFLAGS += -D_MSE_INT_H
1263 $(LINTLIB) := LINTFLAGS64=-nvx -m64

1265 # object files that depend on inline template
1266 $(TIL:%=pics%): $(LIBCBASE)/threads/sparcv9.il
1267 $(IL:%=pics%): $(LIBCBASE)/fp/base.il
1268 $(QIL:%=pics%): $(LIBCDIR)/$(MACH)/fp/__quad.il
1269 #$(CIL:%=pics%): $(LIBCBASE)/crt/muldiv64.il

1271 # include common libc targets
1272 include $(LIBCDIR)/Makefile.targ

1274 # We need to strip out all CTF and DOF data from the static library
1275 $(LIB_PIC) := DIR = pics
1276 $(LIB_PIC): pics $$ (PICS)
1277     $(BUILD.AR)
1278     $(MCS) -d -n .SUNW_ctf $$@ > /dev/null 2>&1
1279     $(MCS) -d -n .SUNW_dof $$@ > /dev/null 2>&1
1280     $(AR) -ts $$@ > /dev/null
1281     $(POST_PROCESS_A)

1283 # special cases
1284 #$(STRETS:%=pics%): crt/stret.s
1285 #     $(AS) $(ASFLAGS) -DSTRET$(@F:stret%.o=) crt/stret.s -o $$@
1286 #     $(POST_PROCESS_O)

1288 #crt/_rtbootld.s:     crt/_rtboot.s crt/_rtld.c
1289 #     $(CC) $(CPPFLAGS) -O -S -K pic crt/_rtld.c -o crt/_rtld.s
1290 #     $(CAT) crt/_rtboot.s crt/_rtld.s > $$@
1291 #     $(RM) crt/_rtld.s

1293 ASSYMDEP_OBJS=
1294     __lwp_mutex_unlock.o \
1295     __stack_grow.o       \
1296     asm_subr.o           \
1297     setjmp.o             \
1298     smt_pause.o          \
1299     tls_get_addr.o       \
1300     unwind_frame.o       \
1301     vforkx.o             \

1303 $(ASSYMDEP_OBJS:%=pics%) :=     CPPFLAGS += -I.

```

```
1305 $(ASSYMDEP_OBJS:%=pics/%): assym.h
1307 # assym.h build rules
1309 assym.h := CFLAGS64 += -g
1311 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c
1313 genassym: $(GENASSYM_C)
1314     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \
1315     $(CPPFLAGS.native) -o $$@ $(GENASSYM_C)
1317 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in
1319 assym.h: $(OFFSETS) genassym
1320     $(OFFSETS_CREATE) <$(OFFSETS) >$$@
1321     ./genassym >>$$@
1323 # derived C source and related explicit dependencies
1324 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1325     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist
1327 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c
```

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

1

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1149 Tue Dec 6 18:26:07 2016

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

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

\*\*\*\*\*

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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/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 Tue Dec 6 18:26:08 2016
new/usr/src/lib/libc_db/i386/Makefile
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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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

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1101 Tue Dec 6 18:26:09 2016

new/usr/src/lib/libc\_db/sparc/Makefile

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

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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 Tue Dec 6 18:26:10 2016

new/usr/src/lib/libc\_db/sparcv9/Makefile

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

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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)
```

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

1

```
*****
6707 Tue Dec 6 18:26:11 2016
new/usr/src/lib/libnsl/Makefile.com
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
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23 # Copyright (c) 1997, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
25 #
26 #
27 LIBRARY= libnsl.a
28 VERS= .1
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 getrpcnt.o getrpcnt_r.o inet_matchaddr.o \
46 inet_pton.o inet_ntop.o inetdir_inet.o netdir_inet.o netdir_inet_sundry.o \
47 parse.o getauthattr.o getprofattr.o getexecattr.o getuserattr.o getauser.o
48 #
49 NETSELECT= netselect.o
50 #
51 NSL= \
52 _conn_util.o _data2.o _errlst.o \
```

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

2

```
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_rcvdata.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
61 #
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_comdata1.o rpc_generic.o rpc_prot.o \
73 rpc_sel2poll.o \
74 rpc_soc.o rpc_td.o rpcb_clnt.o rpcb_prot.o \
75 rpcb_st_xdr.o rpcdname.o rpcsec_gss_if.o rtime_tli.o svc.o \
76 svc_auth.o svc_auth_loopb.o svc_auth_sys.o svc_dg.o \
77 svc_door.o svc_generic.o svc_raw.o svc_run.o svc_simple.o \
78 svc_vc.o svcauth_des.o svid_funcs.o ti_opts.o xdr.o \
79 xdr_array.o xdr_float.o xdr_mem.o xdr_rec.o xdr_refer.o \
80 xdr_sizeof.o xdr_stdio.o
81 #
82 SAF= checkver.o doconfig.o
83 #
84 YP= \
85 dbm.o yp_all.o yp_b_clnt.o yp_b_xdr.o yp_bind.o \
86 yp_enum.o yp_master.o yp_match.o yp_order.o yp_update.o \
87 yperr_string.o yp_xdr.o ypprot_err.o ypuupd.o \
88 yp_rsvd.o \
89 yppasswd_xdr.o
90 #
91 NIS_GEN= \
92 nis_xdr.o nis_subr.o nis_misc.o \
93 nis_misc_proc.o nis_sec_mechs.o
94 #
95 #
96 NIS= $(NIS_GEN)
97 #
98 KEY= publickey.o xcrypt.o gen_dhkeys.o
99 #
100 OBJECTS= $(COMMON) $(DES) $(DIAL) $(IPSEC) $(NETDIR) $(NSS) $(NETSELECT) \
101 $(NSL) $(WRAPPERS) $(RPC) $(SAF) $(YP) $(NIS) $(KEY)
102 #
103 # libnsl build rules
104 pics/%.o: ../common/%.c
105 $(COMPILE.c) -o $@ $<
106 $(POST_PROCESS_O)
107 #
108 pics/%.o: ../des/%.c
109 $(COMPILE.c) -o $@ $<
110 $(POST_PROCESS_O)
111 #
112 pics/%.o: ../dial/%.c
113 $(COMPILE.c) -o $@ $<
114 $(POST_PROCESS_O)
115 #
116 pics/%.o: ../ipsec/%.c
117 $(COMPILE.c) -o $@ $<
118 $(POST_PROCESS_O)
```



```

120 pics/%.o: ../netdir/%.c
121     $(COMPILE.c) -o $@ $<
122     $(POST_PROCESS_O)

124 pics/%.o: ../nss/%.c
125     $(COMPILE.c) -o $@ $<
126     $(POST_PROCESS_O)

128 pics/%.o: ../netselect/%.c
129     $(COMPILE.c) -o $@ $<
130     $(POST_PROCESS_O)

132 pics/%.o: ../nsl/%.c
133     $(COMPILE.c) -o $@ $<
134     $(POST_PROCESS_O)

136 pics/%.o: ../rpc/%.c
137     $(COMPILE.c) -DPORTMAP -DNIS -o $@ $<
138     $(POST_PROCESS_O)

140 pics/%.o: ../saf/%.c
141     $(COMPILE.c) -o $@ $<
142     $(POST_PROCESS_O)

144 pics/%.o: ../yp/%.c
145     $(COMPILE.c) -o $@ $<
146     $(POST_PROCESS_O)

148 pics/%.o: ../key/%.c
149     $(COMPILE.c) -o $@ $<
150     $(POST_PROCESS_O)

152 pics/%.o: ../nis/gen/%.c ../nis/gen/nis_clnt.h
153     $(COMPILE.c) -o $@ $<
154     $(POST_PROCESS_O)

157 pics/%.o: ../nis/gen/nis_clnt.h
158     $(COMPILE.c) -o $@ $<
159     $(POST_PROCESS_O)

161 # include library definitions
162 include ../../Makefile.lib

164 # install this library in the root filesystem
165 include ../../Makefile.rootfs

167 LIBS =          $(DYNLIB) $(LINTLIB)

169 SRCDIR=         ../common

171 # Override the position-independent code generation flags.
172 #
173 # These files are particularly rich with references to global things.
174 # Ordering is by number of got references per file of files that have
175 # non-performance sensitive code in them.
176 #
177 # If you need to add more files and the GOT overflows with "pic" items,
178 # then use the environment variable LD_OPTIONS=-Dgot,detail to have the
179 # linker print out the list of GOT hogs..

181 GOTHOGS =       dial.o print_obj.o clnt_perror.o nsl_stdio_prv.o netdir.o \
182                algs.o netselect.o
183 BIGPICS =       $(GOTHOGS:%=pics/)
184 $(BIGPICS) :=  sparc_C_PICFLAGS = $(C_BIGPICFLAGS)

```

```

185 $(BIGPICS) :=  i386_C_PICFLAGS = $(C_BIGPICFLAGS)

187 # Compile C++ code without exceptions to avoid a dependence on libc.
188 NOEXCEPTIONS= -noex
189 CCFLAGS += $(NOEXCEPTIONS)
190 CCFLAGS64 += $(NOEXCEPTIONS)

192 CPPFLAGS +=     -I$(SRC)/lib/libnsl/include -D_REENTRANT
192 CPPFLAGS +=     -I$(SRC)/lib/common/inc -I$(SRC)/lib/libnsl/include -D_REENTRANT
193 CPPFLAGS +=     -I$(SRC)/lib/libnsl/dial

195 CFLAGS +=       $(CCVERBOSE)

197 # Make string literals read-only to save memory.
198 CFLAGS +=       $(XSTRCONST)
199 CFLAGS64 +=     $(XSTRCONST)
200 CCFLAGS +=      -_CC=features=conststrings
201 CCFLAGS64 +=    -_CC=features=conststrings

203 CERRWARN +=     -_gcc=-Wno-char-subscripts
204 CERRWARN +=     -_gcc=-Wno-parentheses
205 CERRWARN +=     -_gcc=-Wno-uninitialized
206 CERRWARN +=     -_gcc=-Wno-switch
207 CERRWARN +=     -_gcc=-Wno-char-subscripts
208 CERRWARN +=     -_gcc=-Wno-empty-body
209 CERRWARN +=     -_gcc=-Wno-unused-variable
210 CERRWARN +=     -_gcc=-Wno-clobbered

212 LIBMP =        -lmp
213 lint :=        LIBMP =
214 LDLIBS +=      $(LIBMP) -lmd -lc
215 DYNFLAGS +=    $(ZNODELETE)

217 $(LINTLIB) :=  SRCS=$(SRCDIR)/$(LINTSRC)
218 LINTFLAGS +=   -m -DPORTMAP
219 LINTFLAGS64 += -m -DPORTMAP

221 .KEEP_STATE:

223 all: $(LIBS)

225 # Don't lint WRAPPERS as they are explicitly unclean
226 SRCS= $(DES:%.o=../des/%.c) \
227       $(DIAL:%.o=../dial/%.c) \
228       $(IPSEC:%.o=../ipsec/%.c) \
229       $(NETDIR:%.o=../netdir/%.c) \
230       $(NSS:%.o=../nss/%.c) \
231       $(NETSELECT:%.o=../netselect/%.c) \
232       $(NSL:%.o=../nsl/%.c) \
233       $(RPC:%.o=../rpc/%.c) \
234       $(SAF:%.o=../saf/%.c) \
235       $(YP:%.o=../yp/%.c) \
236       $(NIS_GEN:%.o=../nis/gen/%.c) \
237       $(COMMON:%.o=../common/%.c)

239 lint:
240     @$(LINT.c) $(SRCS) $(LDLIBS)

242 # include library targets
243 include ../../Makefile.targ

```

new/usr/src/lib/req.flg

1

\*\*\*\*\*

1198 Tue Dec 6 18:26:12 2016

new/usr/src/lib/req.flg

*crt*: Need a position-independent CRT for PIE

- Implement the greatest possible part of the *crt1* in C
- Implement SPARC versions of the ASM sections of *crt1*
- Build *crt1* position-independently, minor ASM updates to be position independent
- Implement *crt1* with the hook expected by modern GCC to support profiling, make *gcrt1* a symlink for source compatibility (older GCC initializes profiling at first use of *\_mcount* if necessary, so doesn't need the *gcrt*)
- Split the CRT out of developer/library/lint into a separate c-runtime package

\*\*\*\*\*

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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

```
*****
23028 Tue Dec 6 18:26:13 2016
new/usr/src/pkg/manifests/developer-library-lint.mf
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
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17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2012 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
```

new/usr/src/pkg/manifests/developer-library-lint.mf

2

```
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/$(ARCH64)/llib-ldevvid.ln
58 file path=lib/$(ARCH64)/llib-ldevinfo.ln
59 file path=lib/$(ARCH64)/llib-ldl.ln
60 file path=lib/$(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-lpam.ln
76 file path=lib/$(ARCH64)/llib-lproc.ln
77 file path=lib/$(ARCH64)/llib-lpthread.ln
78 file path=lib/$(ARCH64)/llib-lrcm.ln
79 file path=lib/$(ARCH64)/llib-lresolv.ln
80 file path=lib/$(ARCH64)/llib-lrpcsvc.ln
81 file path=lib/$(ARCH64)/llib-lrt.ln
82 file path=lib/$(ARCH64)/llib-lrtld_db.ln
83 file path=lib/$(ARCH64)/llib-lscf.ln
84 file path=lib/$(ARCH64)/llib-lsec.ln
85 file path=lib/$(ARCH64)/llib-lsecdb.ln
86 file path=lib/$(ARCH64)/llib-lsendfile.ln
87 file path=lib/$(ARCH64)/llib-lsocket.ln
88 file path=lib/$(ARCH64)/llib-lsysevent.ln
89 file path=lib/$(ARCH64)/llib-ltermcap.ln
90 file path=lib/$(ARCH64)/llib-lthread.ln
91 file path=lib/$(ARCH64)/llib-ltsnet.ln
92 file path=lib/$(ARCH64)/llib-ltsol.ln
93 file path=lib/$(ARCH64)/llib-lumem.ln
94 file path=lib/$(ARCH64)/llib-luuid.ln
95 $(i386_ONLY)file path=lib/$(ARCH64)/llib-luutil.ln
96 file path=lib/$(ARCH64)/llib-lxnet.ln
97 file path=lib/llib-ladm
98 file path=lib/llib-ladm.ln
99 file path=lib/llib-laio
100 file path=lib/llib-laio.ln
101 file path=lib/llib-lavl
102 file path=lib/llib-lavl.ln
103 file path=lib/llib-lbsm
104 file path=lib/llib-lbsm.ln
105 file path=lib/llib-lc
106 file path=lib/llib-lc.ln
107 file path=lib/llib-lc_db
108 file path=lib/llib-lc_db.ln
109 file path=lib/llib-lcontract
110 file path=lib/llib-lcontract.ln
111 file path=lib/llib-lcryptoutil
112 file path=lib/llib-lcryptoutil.ln
113 file path=lib/llib-lctf
114 file path=lib/llib-lctf.ln
115 file path=lib/llib-lcurses
116 file path=lib/llib-lcurses.ln
```

```

117 file path=lib/llib-ldevice
118 file path=lib/llib-ldevice.ln
119 file path=lib/llib-ldevid
120 file path=lib/llib-ldevid.ln
121 file path=lib/llib-ldevinfo
122 file path=lib/llib-ldevinfo.ln
123 file path=lib/llib-ldl
124 file path=lib/llib-ldl.ln
125 file path=lib/llib-ldladm
126 file path=lib/llib-ldladm.ln
127 file path=lib/llib-ldlpi
128 file path=lib/llib-ldlpi.ln
129 file path=lib/llib-ldoor
130 file path=lib/llib-ldoor.ln
131 file path=lib/llib-lefi
132 file path=lib/llib-lefi.ln
133 file path=lib/llib-lelf
134 file path=lib/llib-lelf.ln
135 $(i386_ONLY)file path=lib/llib-lfdisk
136 $(i386_ONLY)file path=lib/llib-lfdisk.ln
137 file path=lib/llib-lgen
138 file path=lib/llib-lgen.ln
139 file path=lib/llib-lintl
140 file path=lib/llib-lintl.ln
141 file path=lib/llib-lipmp
142 file path=lib/llib-lipmp.ln
143 file path=lib/llib-lkmf
144 file path=lib/llib-lkmfberder.ln
145 file path=lib/llib-lkstat
146 file path=lib/llib-lkstat.ln
147 file path=lib/llib-lmd
148 file path=lib/llib-lmd.ln
149 file path=lib/llib-lmd5
150 file path=lib/llib-lmd5.ln
151 file path=lib/llib-lnsl
152 file path=lib/llib-lnsl.ln
153 file path=lib/llib-lnvpair
154 file path=lib/llib-lnvpair.ln
155 file path=lib/llib-lnwam
156 file path=lib/llib-lnwam.ln
157 file path=lib/llib-lpam
158 file path=lib/llib-lpam.ln
159 file path=lib/llib-lproc
160 file path=lib/llib-lproc.ln
161 file path=lib/llib-lpthread
162 file path=lib/llib-lpthread.ln
163 file path=lib/llib-lrcm
164 file path=lib/llib-lrcm.ln
165 file path=lib/llib-lresolv
166 file path=lib/llib-lresolv.ln
167 file path=lib/llib-lrpcsvc
168 file path=lib/llib-lrpcsvc.ln
169 file path=lib/llib-lrt
170 file path=lib/llib-lrt.ln
171 file path=lib/llib-lrtld_db
172 file path=lib/llib-lrtld_db.ln
173 file path=lib/llib-lscf
174 file path=lib/llib-lscf.ln
175 file path=lib/llib-lsec
176 file path=lib/llib-lsec.ln
177 file path=lib/llib-lsecdb
178 file path=lib/llib-lsecdb.ln
179 file path=lib/llib-lsendfile
180 file path=lib/llib-lsendfile.ln
181 file path=lib/llib-lsocket
182 file path=lib/llib-lsocket.ln

```

```

183 file path=lib/llib-lsysevent
184 file path=lib/llib-lsysevent.ln
185 file path=lib/llib-ltermcap
186 file path=lib/llib-ltermcap.ln
187 file path=lib/llib-lthread
188 file path=lib/llib-lthread.ln
189 file path=lib/llib-ltsnet
190 file path=lib/llib-ltsnet.ln
191 file path=lib/llib-ltsol
192 file path=lib/llib-ltsol.ln
193 file path=lib/llib-lumem
194 file path=lib/llib-lumem.ln
195 file path=lib/llib-luuid
196 file path=lib/llib-luuid.ln
197 file path=lib/llib-lxnet
198 file path=lib/llib-lxnet.ln
200 $(i386_ONLY)file path=usr/lib/$(ARCH64)/crt1.o
201 file path=usr/lib/$(ARCH64)/crti.o
202 file path=usr/lib/$(ARCH64)/crtm.o
203 $(i386_ONLY)file path=usr/lib/$(ARCH64)/gcrt1.o
199 file path=usr/lib/$(ARCH64)/llib-lads.ln
200 file path=usr/lib/$(ARCH64)/llib-ladutils.ln
201 file path=usr/lib/$(ARCH64)/llib-lbsdmalloc.ln
202 file path=usr/lib/$(ARCH64)/llib-lcfgadm.ln
203 file path=usr/lib/$(ARCH64)/llib-lcommutil.ln
204 file path=usr/lib/$(ARCH64)/llib-lcrypt.ln
205 file path=usr/lib/$(ARCH64)/llib-lexacct.ln
206 file path=usr/lib/$(ARCH64)/llib-lform.ln
207 file path=usr/lib/$(ARCH64)/llib-lfstyp.ln
208 file path=usr/lib/$(ARCH64)/llib-lgss.ln
209 file path=usr/lib/$(ARCH64)/llib-lhotplug.ln
210 file path=usr/lib/$(ARCH64)/llib-lidmap.ln
211 file path=usr/lib/$(ARCH64)/llib-lipmi.ln
212 file path=usr/lib/$(ARCH64)/llib-lipp.ln
213 file path=usr/lib/$(ARCH64)/llib-lkvm.ln
214 file path=usr/lib/$(ARCH64)/llib-lldap.ln
215 file path=usr/lib/$(ARCH64)/llib-llgrp.ln
216 file path=usr/lib/$(ARCH64)/llib-lmail.ln
217 file path=usr/lib/$(ARCH64)/llib-lmalloc.ln
218 file path=usr/lib/$(ARCH64)/llib-lmapmalloc.ln
219 file path=usr/lib/$(ARCH64)/llib-lmenu.ln
220 file path=usr/lib/$(ARCH64)/llib-lmtmalloc.ln
221 file path=usr/lib/$(ARCH64)/llib-lnls.ln
222 file path=usr/lib/$(ARCH64)/llib-lpanel.ln
223 file path=usr/lib/$(ARCH64)/llib-lpasswdutil.ln
224 file path=usr/lib/$(ARCH64)/llib-lpkcs11.ln
225 file path=usr/lib/$(ARCH64)/llib-lproject.ln
226 file path=usr/lib/$(ARCH64)/llib-lreparse.ln
227 file path=usr/lib/$(ARCH64)/llib-lsas1.ln
228 file path=usr/lib/$(ARCH64)/llib-lsched.ln
229 file path=usr/lib/$(ARCH64)/llib-lsctp.ln
230 file path=usr/lib/$(ARCH64)/llib-lshare.ln
231 file path=usr/lib/$(ARCH64)/llib-lsip.ln
232 file path=usr/lib/$(ARCH64)/llib-lslldap.ln
233 file path=usr/lib/$(ARCH64)/llib-lsmbios.ln
234 $(sparc_ONLY)file path=usr/lib/$(ARCH64)/llib-lv12n.ln
235 file path=usr/lib/$(ARCH64)/llib-lvolmgt.ln
236 file path=usr/lib/$(ARCH64)/llib-lwrap.ln
237 file path=usr/lib/$(ARCH64)/llib-lzoneinfo.ln
243 file path=usr/lib/$(ARCH64)/values-Xa.o
244 file path=usr/lib/$(ARCH64)/values-Xc.o
245 file path=usr/lib/$(ARCH64)/values-Xs.o
246 file path=usr/lib/$(ARCH64)/values-Xt.o
247 file path=usr/lib/$(ARCH64)/values-xpg4.o
248 file path=usr/lib/$(ARCH64)/values-xpg6.o
249 $(i386_ONLY)file path=usr/lib/crt1.o

```

```

250 file path=usr/lib/crti.o
251 file path=usr/lib/crtn.o
252 $(i386_ONLY)file path=usr/lib/gcrt1.o
238 file path=usr/lib/llib-lads
239 file path=usr/lib/llib-lads.ln
240 file path=usr/lib/llib-ladutils
241 file path=usr/lib/llib-ladutils.ln
242 file path=usr/lib/llib-lbsdmalloc
243 file path=usr/lib/llib-lbsdmalloc.ln
244 file path=usr/lib/llib-lcfgadm
245 file path=usr/lib/llib-lcfgadm.ln
246 file path=usr/lib/llib-lcomputil
247 file path=usr/lib/llib-lcomputil.ln
248 file path=usr/lib/llib-lcrypt
249 file path=usr/lib/llib-lcrypt.ln
250 file path=usr/lib/llib-lexacct
251 file path=usr/lib/llib-lexacct.ln
252 file path=usr/lib/llib-lform
253 file path=usr/lib/llib-lform.ln
254 file path=usr/lib/llib-lfstyp
255 file path=usr/lib/llib-lfstyp.ln
256 file path=usr/lib/llib-lgss
257 file path=usr/lib/llib-lgss.ln
258 file path=usr/lib/llib-lhotplug
259 file path=usr/lib/llib-lhotplug.ln
260 file path=usr/lib/llib-lidmap
261 file path=usr/lib/llib-lidmap.ln
262 file path=usr/lib/llib-lipmi
263 file path=usr/lib/llib-lipmi.ln
264 file path=usr/lib/llib-lipp
265 file path=usr/lib/llib-lipp.ln
266 file path=usr/lib/llib-lkvm
267 file path=usr/lib/llib-lkvm.ln
268 file path=usr/lib/llib-ldap
269 file path=usr/lib/llib-ldap.ln
270 file path=usr/lib/llib-llgrp
271 file path=usr/lib/llib-llgrp.ln
272 file path=usr/lib/llib-lmail
273 file path=usr/lib/llib-lmail.ln
274 file path=usr/lib/llib-lmalloc
275 file path=usr/lib/llib-lmalloc.ln
276 file path=usr/lib/llib-lmapmalloc
277 file path=usr/lib/llib-lmapmalloc.ln
278 file path=usr/lib/llib-lmenu
279 file path=usr/lib/llib-lmenu.ln
280 file path=usr/lib/llib-lmtmalloc.ln
281 file path=usr/lib/llib-lnls
282 file path=usr/lib/llib-lnls.ln
283 file path=usr/lib/llib-lpanel
284 file path=usr/lib/llib-lpanel.ln
285 file path=usr/lib/llib-lpasswdutil
286 file path=usr/lib/llib-lpasswdutil.ln
287 file path=usr/lib/llib-lpkcs11
288 file path=usr/lib/llib-lpkcs11.ln
289 file path=usr/lib/llib-lproject
290 file path=usr/lib/llib-lproject.ln
291 file path=usr/lib/llib-lreparse
292 file path=usr/lib/llib-lreparse.ln
293 file path=usr/lib/llib-lsas1
294 file path=usr/lib/llib-lsas1.ln
295 file path=usr/lib/llib-lsched
296 file path=usr/lib/llib-lsched.ln
297 file path=usr/lib/llib-lsctp
298 file path=usr/lib/llib-lsctp.ln
299 file path=usr/lib/llib-lshare
300 file path=usr/lib/llib-lshare.ln

```

```

301 file path=usr/lib/llib-lsip
302 file path=usr/lib/llib-lsip.ln
303 file path=usr/lib/llib-lslldap
304 file path=usr/lib/llib-lslldap.ln
305 file path=usr/lib/llib-lsmbios
306 file path=usr/lib/llib-lsmbios.ln
307 $(sparc_ONLY)file path=usr/lib/llib-lv12n
308 $(sparc_ONLY)file path=usr/lib/llib-lv12n.ln
309 file path=usr/lib/llib-lvolmgt
310 file path=usr/lib/llib-lvolmgt.ln
311 file path=usr/lib/llib-lwrap
312 file path=usr/lib/llib-lwrap.ln
313 file path=usr/lib/llib-lzoneinfo
314 file path=usr/lib/llib-lzoneinfo.ln
315 file path=usr/lib/scsi/$(ARCH64)/llib-lscsi
316 file path=usr/lib/scsi/$(ARCH64)/llib-lses.ln
317 file path=usr/lib/scsi/$(ARCH64)/llib-lsmp.ln
318 file path=usr/lib/scsi/llib-lscsi
319 file path=usr/lib/scsi/llib-lscsi.ln
320 file path=usr/lib/scsi/llib-lses
321 file path=usr/lib/scsi/llib-lses.ln
322 file path=usr/lib/scsi/llib-lsmp
323 file path=usr/lib/scsi/llib-lsmp.ln
339 file path=usr/lib/values-Xa.o
340 file path=usr/lib/values-Xc.o
341 file path=usr/lib/values-Xs.o
342 file path=usr/lib/values-Xt.o
343 file path=usr/lib/values-xpg4.o
344 file path=usr/lib/values-xpg6.o
324 file path=usr/xpg4/lib/$(ARCH64)/llib-lcurses.ln
325 file path=usr/xpg4/lib/llib-lcurses
326 file path=usr/xpg4/lib/llib-lcurses.ln
327 legacy pkg=SUNWarc \
328 desc="lint libraries and startup objects for software development" \
329 name="Lint Libraries (usr)"
330 legacy pkg=SUNWarc desc="lint libraries for software development" \
331 name="Lint Libraries (root)"
332 license cr_Sun license=cr_Sun
333 license lic_CDDL license=lic_CDDL
334 link path=lib/$(ARCH64)/llib-lposix4.ln target=../llib-lrt.ln
335 link path=lib/$(ARCH64)/llib-ltermLib.ln target=../llib-lcurses.ln
336 link path=lib/llib-lposix4 target=../llib-lrt
337 link path=lib/llib-lposix4.ln target=../llib-lrt.ln
338 link path=lib/llib-ltermLib target=../llib-lcurses
339 link path=lib/llib-ltermLib.ln target=../llib-lcurses.ln
340 link path=usr/ccs/lib/$(ARCH64)/llib-lcurses.ln \
341 target=../../../../lib/$(ARCH64)/llib-lcurses.ln
342 link path=usr/ccs/lib/$(ARCH64)/llib-lform.ln \
343 target=../../../../lib/$(ARCH64)/llib-lform.ln
344 link path=usr/ccs/lib/$(ARCH64)/llib-lgen.ln \
345 target=../../../../lib/$(ARCH64)/llib-lgen.ln
346 link path=usr/ccs/lib/$(ARCH64)/llib-ll.ln \
347 target=../../../../lib/$(ARCH64)/llib-ll.ln
348 link path=usr/ccs/lib/$(ARCH64)/llib-lmenu.ln \
349 target=../../../../lib/$(ARCH64)/llib-lmenu.ln
350 link path=usr/ccs/lib/$(ARCH64)/llib-lpanel.ln \
351 target=../../../../lib/$(ARCH64)/llib-lpanel.ln
352 link path=usr/ccs/lib/$(ARCH64)/llib-ltermcap.ln \
353 target=../../../../lib/$(ARCH64)/llib-ltermcap.ln
354 link path=usr/ccs/lib/$(ARCH64)/llib-ltermLib.ln \
355 target=../../../../lib/$(ARCH64)/llib-lcurses.ln
356 link path=usr/ccs/lib/$(ARCH64)/llib-ly.ln \
357 target=../../../../lib/$(ARCH64)/llib-ly.ln
379 link path=usr/ccs/lib/$(ARCH64)/values-Xa.o \
380 target=../../../../lib/$(ARCH64)/values-Xa.o
381 link path=usr/ccs/lib/$(ARCH64)/values-Xc.o \

```

```

382 target=../../../../lib/$(ARCH64)/values-Xc.o
383 link path=usr/ccs/lib/$(ARCH64)/values-Xs.o \
384 target=../../../../lib/$(ARCH64)/values-Xs.o \
385 link path=usr/ccs/lib/$(ARCH64)/values-Xt.o \
386 target=../../../../lib/$(ARCH64)/values-Xt.o
387 link path=usr/ccs/lib/$(ARCH64)/values-xpg4.o \
388 target=../../../../lib/$(ARCH64)/values-xpg4.o
389 link path=usr/ccs/lib/$(ARCH64)/values-xpg6.o \
390 target=../../../../lib/$(ARCH64)/values-xpg6.o
358 link path=usr/ccs/lib/llib-lcurses target=../../../../lib/llib-lcurses
359 link path=usr/ccs/lib/llib-lcurses.ln target=../../../../lib/llib-lcurses.ln
360 link path=usr/ccs/lib/llib-lform target=../../../../lib/llib-lform
361 link path=usr/ccs/lib/llib-lform.ln target=../../../../lib/llib-lform.ln
362 link path=usr/ccs/lib/llib-lgen target=../../../../lib/llib-lgen
363 link path=usr/ccs/lib/llib-lgen.ln target=../../../../lib/llib-lgen.ln
364 link path=usr/ccs/lib/llib-lmenu target=../../../../lib/llib-lmenu
365 link path=usr/ccs/lib/llib-lmenu.ln target=../../../../lib/llib-lmenu.ln
366 link path=usr/ccs/lib/llib-lpanel target=../../../../lib/llib-lpanel
367 link path=usr/ccs/lib/llib-lpanel.ln target=../../../../lib/llib-lpanel.ln
368 link path=usr/ccs/lib/llib-ltermcap target=../../../../lib/llib-ltermcap
369 link path=usr/ccs/lib/llib-ltermcap.ln target=../../../../lib/llib-ltermcap.ln
370 link path=usr/ccs/lib/llib-ltermplib target=../../../../lib/llib-lcurses
371 link path=usr/ccs/lib/llib-ltermplib.ln target=../../../../lib/llib-lcurses.ln
405 link path=usr/ccs/lib/values-Xa.o target=../../../../lib/values-Xa.o
406 link path=usr/ccs/lib/values-Xc.o target=../../../../lib/values-Xc.o
407 link path=usr/ccs/lib/values-Xs.o target=../../../../lib/values-Xs.o
408 link path=usr/ccs/lib/values-Xt.o target=../../../../lib/values-Xt.o
409 link path=usr/ccs/lib/values-xpg4.o target=../../../../lib/values-xpg4.o
410 link path=usr/ccs/lib/values-xpg6.o target=../../../../lib/values-xpg6.o
372 link path=usr/lib/$(ARCH64)/llib-ladm.ln \
373 target=../../../../lib/$(ARCH64)/llib-ladm.ln
374 link path=usr/lib/$(ARCH64)/llib-laio.ln \
375 target=../../../../lib/$(ARCH64)/llib-laio.ln
376 link path=usr/lib/$(ARCH64)/llib-lavl.ln \
377 target=../../../../lib/$(ARCH64)/llib-lavl.ln
378 link path=usr/lib/$(ARCH64)/llib-lbsm.ln \
379 target=../../../../lib/$(ARCH64)/llib-lbsm.ln
380 link path=usr/lib/$(ARCH64)/llib-lc.ln \
381 target=../../../../lib/$(ARCH64)/llib-lc.ln
382 link path=usr/lib/$(ARCH64)/llib-lcontract.ln \
383 target=../../../../lib/$(ARCH64)/llib-lcontract.ln
384 link path=usr/lib/$(ARCH64)/llib-lctf.ln \
385 target=../../../../lib/$(ARCH64)/llib-lctf.ln
386 link path=usr/lib/$(ARCH64)/llib-lcurses.ln \
387 target=../../../../lib/$(ARCH64)/llib-lcurses.ln
388 link path=usr/lib/$(ARCH64)/llib-ldevice.ln \
389 target=../../../../lib/$(ARCH64)/llib-ldevice.ln
390 link path=usr/lib/$(ARCH64)/llib-ldevid.ln \
391 target=../../../../lib/$(ARCH64)/llib-ldevid.ln
392 link path=usr/lib/$(ARCH64)/llib-ldevinfo.ln \
393 target=../../../../lib/$(ARCH64)/llib-ldevinfo.ln
394 link path=usr/lib/$(ARCH64)/llib-ldl.ln \
395 target=../../../../lib/$(ARCH64)/llib-ldl.ln
396 link path=usr/lib/$(ARCH64)/llib-ldoor.ln \
397 target=../../../../lib/$(ARCH64)/llib-ldoor.ln
398 link path=usr/lib/$(ARCH64)/llib-lefi.ln \
399 target=../../../../lib/$(ARCH64)/llib-lefi.ln
400 link path=usr/lib/$(ARCH64)/llib-lelf.ln \
401 target=../../../../lib/$(ARCH64)/llib-lelf.ln
402 $(i386_ONLY)link path=usr/lib/$(ARCH64)/llib-lfdisk.ln \
403 target=../../../../lib/$(ARCH64)/llib-lfdisk.ln
404 link path=usr/lib/$(ARCH64)/llib-lgen.ln \
405 target=../../../../lib/$(ARCH64)/llib-lgen.ln
406 link path=usr/lib/$(ARCH64)/llib-lintl.ln \
407 target=../../../../lib/$(ARCH64)/llib-lintl.ln
408 link path=usr/lib/$(ARCH64)/llib-lkstat.ln \

```

```

409 target=../../../../lib/$(ARCH64)/llib-lkstat.ln
410 link path=usr/lib/$(ARCH64)/llib-lmd5.ln \
411 target=../../../../lib/$(ARCH64)/llib-lmd5.ln
412 link path=usr/lib/$(ARCH64)/llib-lnsl.ln \
413 target=../../../../lib/$(ARCH64)/llib-lnsl.ln
414 link path=usr/lib/$(ARCH64)/llib-lnvpair.ln \
415 target=../../../../lib/$(ARCH64)/llib-lnvpair.ln
416 link path=usr/lib/$(ARCH64)/llib-lpam.ln \
417 target=../../../../lib/$(ARCH64)/llib-lpam.ln
418 link path=usr/lib/$(ARCH64)/llib-lposix4.ln \
419 target=../../../../lib/$(ARCH64)/llib-lrt.ln
420 link path=usr/lib/$(ARCH64)/llib-lpthread.ln \
421 target=../../../../lib/$(ARCH64)/llib-lpthread.ln
422 link path=usr/lib/$(ARCH64)/llib-lresolv.ln \
423 target=../../../../lib/$(ARCH64)/llib-lresolv.ln
424 link path=usr/lib/$(ARCH64)/llib-lrpcsvc.ln \
425 target=../../../../lib/$(ARCH64)/llib-lrpcsvc.ln
426 link path=usr/lib/$(ARCH64)/llib-lrt.ln \
427 target=../../../../lib/$(ARCH64)/llib-lrt.ln
428 link path=usr/lib/$(ARCH64)/llib-lrtld_db.ln \
429 target=../../../../lib/$(ARCH64)/llib-lrtld_db.ln
430 link path=usr/lib/$(ARCH64)/llib-lscf.ln \
431 target=../../../../lib/$(ARCH64)/llib-lscf.ln
432 link path=usr/lib/$(ARCH64)/llib-lsec.ln \
433 target=../../../../lib/$(ARCH64)/llib-lsec.ln
434 link path=usr/lib/$(ARCH64)/llib-lsecdb.ln \
435 target=../../../../lib/$(ARCH64)/llib-lsecdb.ln
436 link path=usr/lib/$(ARCH64)/llib-lsendfile.ln \
437 target=../../../../lib/$(ARCH64)/llib-lsendfile.ln
438 link path=usr/lib/$(ARCH64)/llib-lsocket.ln \
439 target=../../../../lib/$(ARCH64)/llib-lsocket.ln
440 link path=usr/lib/$(ARCH64)/llib-lsysevent.ln \
441 target=../../../../lib/$(ARCH64)/llib-lsysevent.ln
442 link path=usr/lib/$(ARCH64)/llib-ltermcap.ln \
443 target=../../../../lib/$(ARCH64)/llib-ltermcap.ln
444 link path=usr/lib/$(ARCH64)/llib-ltermplib.ln \
445 target=../../../../lib/$(ARCH64)/llib-lcurses.ln
446 link path=usr/lib/$(ARCH64)/llib-lthread.ln \
447 target=../../../../lib/$(ARCH64)/llib-lthread.ln
448 link path=usr/lib/$(ARCH64)/llib-lthread_db.ln \
449 target=../../../../lib/$(ARCH64)/llib-lc_db.ln
450 link path=usr/lib/$(ARCH64)/llib-ltsnet.ln \
451 target=../../../../lib/$(ARCH64)/llib-ltsnet.ln
452 link path=usr/lib/$(ARCH64)/llib-ltsol.ln \
453 target=../../../../lib/$(ARCH64)/llib-ltsol.ln
454 link path=usr/lib/$(ARCH64)/llib-lumem.ln \
455 target=../../../../lib/$(ARCH64)/llib-lumem.ln
456 link path=usr/lib/$(ARCH64)/llib-luuid.ln \
457 target=../../../../lib/$(ARCH64)/llib-luuid.ln
458 link path=usr/lib/$(ARCH64)/llib-lxnet.ln \
459 target=../../../../lib/$(ARCH64)/llib-lxnet.ln
460 link path=usr/lib/llib-ladm target=../../../../lib/llib-ladm
461 link path=usr/lib/llib-ladm.ln target=../../../../lib/llib-ladm.ln
462 link path=usr/lib/llib-laio target=../../../../lib/llib-laio
463 link path=usr/lib/llib-laio.ln target=../../../../lib/llib-laio.ln
464 link path=usr/lib/llib-lavl target=../../../../lib/llib-lavl
465 link path=usr/lib/llib-lavl.ln target=../../../../lib/llib-lavl.ln
466 link path=usr/lib/llib-lbsm target=../../../../lib/llib-lbsm
467 link path=usr/lib/llib-lbsm.ln target=../../../../lib/llib-lbsm.ln
468 link path=usr/lib/llib-lc target=../../../../lib/llib-lc
469 link path=usr/lib/llib-lc.ln target=../../../../lib/llib-lc.ln
470 link path=usr/lib/llib-lcontract target=../../../../lib/llib-lcontract
471 link path=usr/lib/llib-lcontract.ln target=../../../../lib/llib-lcontract.ln
472 link path=usr/lib/llib-lctf target=../../../../lib/llib-lctf
473 link path=usr/lib/llib-lctf.ln target=../../../../lib/llib-lctf.ln
474 link path=usr/lib/llib-lcurses target=../../../../lib/llib-lcurses

```

```
475 link path=usr/lib/lib-lcurses.ln target=../lib/lib-lcurses.ln
476 link path=usr/lib/lib-ldevice target=../lib/lib-ldevice
477 link path=usr/lib/lib-ldevice.ln target=../lib/lib-ldevice.ln
478 link path=usr/lib/lib-ldevid target=../lib/lib-ldevid
479 link path=usr/lib/lib-ldevid.ln target=../lib/lib-ldevid.ln
480 link path=usr/lib/lib-ldevinfo target=../lib/lib-ldevinfo
481 link path=usr/lib/lib-ldevinfo.ln target=../lib/lib-ldevinfo.ln
482 link path=usr/lib/lib-ldl target=../lib/lib-ldl
483 link path=usr/lib/lib-ldl.ln target=../lib/lib-ldl.ln
484 link path=usr/lib/lib-ldoor target=../lib/lib-ldoor
485 link path=usr/lib/lib-ldoor.ln target=../lib/lib-ldoor.ln
486 link path=usr/lib/lib-lefi target=../lib/lib-lefi
487 link path=usr/lib/lib-lefi.ln target=../lib/lib-lefi.ln
488 link path=usr/lib/lib-lelf target=../lib/lib-lelf
489 link path=usr/lib/lib-lelf.ln target=../lib/lib-lelf.ln
490 $(i386_ONLY)link path=usr/lib/lib-lfdisk target=../lib/lib-lfdisk
491 $(i386_ONLY)link path=usr/lib/lib-lfdisk.ln target=../lib/lib-lfdisk.ln
492 link path=usr/lib/lib-lgen target=../lib/lib-lgen
493 link path=usr/lib/lib-lgen.ln target=../lib/lib-lgen.ln
494 link path=usr/lib/lib-lintl target=../lib/lib-lintl
495 link path=usr/lib/lib-lintl.ln target=../lib/lib-lintl.ln
496 link path=usr/lib/lib-lkstat target=../lib/lib-lkstat
497 link path=usr/lib/lib-lkstat.ln target=../lib/lib-lkstat.ln
498 link path=usr/lib/lib-lmd5 target=../lib/lib-lmd5
499 link path=usr/lib/lib-lmd5.ln target=../lib/lib-lmd5.ln
500 link path=usr/lib/lib-lnsl target=../lib/lib-lnsl
501 link path=usr/lib/lib-lnsl.ln target=../lib/lib-lnsl.ln
502 link path=usr/lib/lib-lnvpair target=../lib/lib-lnvpair
503 link path=usr/lib/lib-lnvpair.ln target=../lib/lib-lnvpair.ln
504 link path=usr/lib/lib-lpam target=../lib/lib-lpam
505 link path=usr/lib/lib-lpam.ln target=../lib/lib-lpam.ln
506 link path=usr/lib/lib-lposix4 target=../lib/lib-lrt
507 link path=usr/lib/lib-lposix4.ln target=../lib/lib-lrt.ln
508 link path=usr/lib/lib-lpthread target=../lib/lib-lpthread
509 link path=usr/lib/lib-lpthread.ln target=../lib/lib-lpthread.ln
510 link path=usr/lib/lib-lresolv target=../lib/lib-lresolv
511 link path=usr/lib/lib-lresolv.ln target=../lib/lib-lresolv.ln
512 link path=usr/lib/lib-lrpcsvc target=../lib/lib-lrpcsvc
513 link path=usr/lib/lib-lrpcsvc.ln target=../lib/lib-lrpcsvc.ln
514 link path=usr/lib/lib-lrt target=../lib/lib-lrt
515 link path=usr/lib/lib-lrt.ln target=../lib/lib-lrt.ln
516 link path=usr/lib/lib-lrtld_db target=../lib/lib-lrtld_db
517 link path=usr/lib/lib-lrtld_db.ln target=../lib/lib-lrtld_db.ln
518 link path=usr/lib/lib-lscf target=../lib/lib-lscf
519 link path=usr/lib/lib-lscf.ln target=../lib/lib-lscf.ln
520 link path=usr/lib/lib-lsec target=../lib/lib-lsec
521 link path=usr/lib/lib-lsec.ln target=../lib/lib-lsec.ln
522 link path=usr/lib/lib-lsecdb target=../lib/lib-lsecdb
523 link path=usr/lib/lib-lsecdb.ln target=../lib/lib-lsecdb.ln
524 link path=usr/lib/lib-lsendfile target=../lib/lib-lsendfile
525 link path=usr/lib/lib-lsendfile.ln target=../lib/lib-lsendfile.ln
526 link path=usr/lib/lib-lsocket target=../lib/lib-lsocket
527 link path=usr/lib/lib-lsocket.ln target=../lib/lib-lsocket.ln
528 link path=usr/lib/lib-lsysevent target=../lib/lib-lsysevent
529 link path=usr/lib/lib-lsysevent.ln target=../lib/lib-lsysevent.ln
530 link path=usr/lib/lib-ltermcap target=../lib/lib-ltermcap
531 link path=usr/lib/lib-ltermcap.ln target=../lib/lib-ltermcap.ln
532 link path=usr/lib/lib-ltermmlib target=../lib/lib-lcurses
533 link path=usr/lib/lib-ltermmlib.ln target=../lib/lib-lcurses.ln
534 link path=usr/lib/lib-lthread target=../lib/lib-lthread
535 link path=usr/lib/lib-lthread.ln target=../lib/lib-lthread.ln
536 link path=usr/lib/lib-lthread_db target=../lib/lib-lc_db
537 link path=usr/lib/lib-lthread_db.ln target=../lib/lib-lc_db.ln
538 link path=usr/lib/lib-ltsnet.ln target=../lib/lib-ltsnet.ln
539 link path=usr/lib/lib-ltsol.ln target=../lib/lib-ltsol.ln
540 link path=usr/lib/lib-lumem target=../lib/lib-lumem
```

```
541 link path=usr/lib/lib-lumem.ln target=../lib/lib-lumem.ln
542 link path=usr/lib/lib-luuid target=../lib/lib-luuid
543 link path=usr/lib/lib-luuid.ln target=../lib/lib-luuid.ln
544 link path=usr/lib/lib-lxnet target=../lib/lib-lxnet
545 link path=usr/lib/lib-lxnet.ln target=../lib/lib-lxnet.ln
546 # Used to be incorrectly in this package, pull it in for compatibility
547 depend fmri=system/library/c-runtime type=group
548 #endif /* ! codereview */
```

new/usr/src/pkg/manifests/system-library-c-runtime.mf

1

```
*****
2437 Tue Dec 6 18:26:14 2016
new/usr/src/pkg/manifests/system-library-c-runtime.mf
crt: Need a position-independent CRT for PIE
- Implement the greatest possible part of the crt1 in C
- Implement SPARC versions of the ASM sections of crt1
- Build crt1 position-independently, minor ASM updates to be position
  independent
- Implement crt1 with the hook expected by modern GCC to support
  profiling, make gcrt1 a symlink for source compatibility (older GCC
  initializes profiling at first use of _mcount if necessary, so
  doesn't need the gcrt)
- Split the CRT out of developer/library/lint into a separate c-runtime package
*****
```

```
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
```

new/usr/src/pkg/manifests/system-library-c-runtime.mf

2

```
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 */
```