

new/usr/src/Makefile.master

1

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*****
35959 Thu Oct 11 01:49:36 2018
new/usr/src/Makefile.master
9884 cw(1) should use -fpic rather than -Kpic
*****
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21 #
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31 #
32 #
33 #
34 # Makefile.master, global definitions for system source
35 #
36 ROOT= /proto
37 #
38 #
39 # Adjunct root, containing an additional proto area to be used for headers
40 # and libraries.
41 #
42 ADJUNCT_PROTO=
43 #
44 #
45 # Adjunct for building things that run on the build machine.
46 #
47 NATIVE_ADJUNCT= /usr
48 #
49 #
50 # RELEASE_BUILD should be cleared for final release builds.
51 # NOT_RELEASE_BUILD is exactly what the name implies.
52 #
53 # __GNUC toggles the building of ON components using gcc and related tools.
54 # Normally set to '#', set it to '' to do gcc build.
55 #
56 # The declaration POUND_SIGN is always '#'. This is needed to get around the
57 # make feature that '#' is always a comment delimiter, even when escaped or
58 # quoted. We use this macro expansion method to get POUND_SIGN rather than
59 # always breaking out a shell because the general case can cause a noticeable
60 # slowdown in build times when so many Makefiles include Makefile.master.
61 #
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new/usr/src/Makefile.master

2

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62 # While the majority of users are expected to override the setting below
63 # with an env file (via nightly or bldenv), if you aren't building that way
64 # (ie, you're using "ws" or some other bootstrapping method) then you need
65 # this definition in order to avoid the subshell invocation mentioned above.
66 #
67 #
68 PRE_POUND= pre\#
69 POUND_SIGN= $(PRE_POUND:pre\%=%)
70 #
71 NOT_RELEASE_BUILD=
72 RELEASE_BUILD= $(POUND_SIGN)
73 $(RELEASE_BUILD)NOT_RELEASE_BUILD= $(POUND_SIGN)
74 PATCH_BUILD= $(POUND_SIGN)
75 #
76 # SPARC_BLD is '#' for an Intel build.
77 # INTEL_BLD is '#' for a Sparc build.
78 SPARC_BLD_1= $(MACH:i386=$(POUND_SIGN))
79 SPARC_BLD= $(SPARC_BLD_1:sparc=)
80 INTEL_BLD_1= $(MACH:sparc=$(POUND_SIGN))
81 INTEL_BLD= $(INTEL_BLD_1:i386=)
82 #
83 # The variables below control the compilers used during the build.
84 # There are a number of permutations.
85 #
86 # __GNUC and __SUNC control (and indicate) the primary compiler. Whichever
87 # one is not POUND_SIGN is the primary, with the other as the shadow. They
88 # may also be used to control entirely compiler-specific Makefile assignments.
89 # __GNUC and GCC are the default.
90 #
91 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
92 # There is no Sun C analogue.
93 #
94 # The following version-specific options are operative regardless of which
95 # compiler is primary, and control the versions of the given compilers to be
96 # used. They also allow compiler-version specific Makefile fragments.
97 #
98 #
99 __SUNC= $(POUND_SIGN)
100 $(__SUNC)__GNUC= $(POUND_SIGN)
101 __GNUC64= $(__GNUC)
102 #
103 # Allow build-time "configuration" to enable or disable some things.
104 # The default is POUND_SIGN, meaning "not enabled". If the environment
105 # passes in an override like ENABLE_SMB_PRINTING= (empty) that will
106 # uncomment things in the lower Makefiles to enable the feature.
107 ENABLE_SMB_PRINTING= $(POUND_SIGN)
108 #
109 # CLOSED is the root of the tree that contains source which isn't released
110 # as open source
111 CLOSED= $(SRC)/../closed
112 #
113 # BUILD_TOOLS is the root of all tools including compilers.
114 # ONBLD_TOOLS is the root of all the tools that are part of SUNWonbld.
115 #
116 BUILD_TOOLS= /ws/onnv-tools
117 ONBLD_TOOLS= $(BUILD_TOOLS)/onbld
118 #
119 # define runtime JAVA_HOME, primarily for cmd/pools/poold
120 JAVA_HOME= /usr/java
121 # define buildtime JAVA_ROOT
122 JAVA_ROOT= /usr/java
123 # Build uses java7 by default. Pass one the variables below set to empty
124 # string in the environment to override.
125 BLD_JAVA_6= $(POUND_SIGN)
126 BLD_JAVA_8= $(POUND_SIGN)
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new/usr/src/Makefile.master

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128 GNUC_ROOT=      /opt/gcc/4.4.4
129 GCCLIBDIR=      $(GNUC_ROOT)/lib
130 GCCLIBDIR64=    $(GNUC_ROOT)/lib/$(MACH64)

132 DOCBOOK_XSL_ROOT=      /usr/share/sgml/docbook/xsl-stylesheets

134 RPCGEN=         /usr/bin/rpcgen
135 STABS=          $(ONBLD_TOOLS)/bin/$(MACH)/stabs
136 ELFXTRACT=      $(ONBLD_TOOLS)/bin/$(MACH)/elfextract
137 MBH_PATCH=      $(ONBLD_TOOLS)/bin/$(MACH)/mbh_patch
138 BTXILD=         $(ONBLD_TOOLS)/bin/$(MACH)/btxild
139 VTFONTCVT=      $(ONBLD_TOOLS)/bin/$(MACH)/vtfontcv
140 # echo(1) and true(1) are specified without absolute paths, so that the shell
141 # spawned by make(1) may use the built-in versions. This is minimally
142 # problematic, as the shell spawned by make(1) is known and under control, the
143 # only risk being if the shell falls back to $PATH.
144 #
145 # We specifically want an echo(1) that does interpolation of escape sequences,
146 # which ksh93, /bin/sh, and bash will all provide.
147 ECHO=           echo
148 TRUE=           true
149 INS=            $(ONBLD_TOOLS)/bin/$(MACH)/install
150 SYMLINK=        /usr/bin/ln -s
151 LN=             /usr/bin/ln
152 MKDIR=          /usr/bin/mkdir
153 CHMOD=          /usr/bin/chmod
154 MV=             /usr/bin/mv -f
155 RM=             /usr/bin/rm -f
156 CUT=           /usr/bin/cut
157 NM=            /usr/ccs/bin/nm
158 DIFF=          /usr/bin/diff
159 GREP=          /usr/bin/grep
160 EGREP=         /usr/bin/egrep
161 ELFWRAP=       /usr/bin/elfwrap
162 KSH93=        /usr/bin/ksh93
163 SED=           /usr/bin/sed
164 AWK=           /usr/bin/nawk
165 CP=            /usr/bin/cp -f
166 MCS=          /usr/ccs/bin/mcs
167 CAT=          /usr/bin/cat
168 ELFDUMP=       /usr/ccs/bin/elfdump
169 M4=           /usr/bin/m4
170 STRIP=         /usr/ccs/bin/strip
171 LEX=           /usr/ccs/bin/lex
172 FLEX=          /usr/bin/flex
173 YACC=          /usr/ccs/bin/yacc
174 CPP=           /usr/lib/cpp
175 ANSI_CPP=      $(GNUC_ROOT)/bin/cpp
176 JAVAC=         $(JAVA_ROOT)/bin/javac
177 JAVAH=         $(JAVA_ROOT)/bin/javah
178 JAVADOC=       $(JAVA_ROOT)/bin/javadoc
179 RMIC=          $(JAVA_ROOT)/bin/rmic
180 JAR=           $(JAVA_ROOT)/bin/jar
181 CTFCONVERT=    $(ONBLD_TOOLS)/bin/$(MACH)/ctfconvert
182 CTFMERGE=      $(ONBLD_TOOLS)/bin/$(MACH)/ctfmerge
183 CTFSTABS=      $(ONBLD_TOOLS)/bin/$(MACH)/ctfstabs
184 CTFSTRIP=      $(ONBLD_TOOLS)/bin/$(MACH)/ctfstrip
185 NDRGEN=        $(ONBLD_TOOLS)/bin/$(MACH)/ndrgen
186 GENOFFSETS=   $(ONBLD_TOOLS)/bin/genoffsets
187 XREF=          $(ONBLD_TOOLS)/bin/xref
188 FIND=          /usr/bin/find
189 PERL=          /usr/bin/perl
190 PERL_VERSION=  5.10.0
191 PERL_PKGVERS=  -510
192 PERL_ARCH =    i86pc-solaris-64int
193 $(SPARC_BLD)PERL_ARCH = sun4-solaris-64int

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3

new/usr/src/Makefile.master

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194 PYTHON_VERSION= 2.7
195 PYTHON_PKGVERS= -27
196 PYTHON=         /usr/bin/python$(PYTHON_VERSION)
197 SORT=           /usr/bin/sort
198 TOUCH=          /usr/bin/touch
199 WC=             /usr/bin/wc
200 XARGS=          /usr/bin/xargs
201 ELFEDIT=        /usr/bin/elfedit
202 DTRACE=         /usr/sbin/dtrace -xnolib
203 UNIQ=           /usr/bin/uniq
204 TAR=            /usr/bin/tar
205 ASTBINDIR=      /usr/ast/bin
206 MSGCC=          $(ASTBINDIR)/msgcc
207 MSGFMT=         /usr/bin/msgfmt -s
208 LCDEF=          $(ONBLD_TOOLS)/bin/$(MACH)/localedef
209 TIC=            $(ONBLD_TOOLS)/bin/$(MACH)/tic
210 ZIC=            $(ONBLD_TOOLS)/bin/$(MACH)/zic
211 OPENSSL=        /usr/bin/openssl

213 FILEMODE=       644
214 DIRMODE=        755

216 # Declare that nothing should be built in parallel.
217 # Individual Makefiles can use the .PARALLEL target to declare otherwise.
218 .NO_PARALLEL:

220 # For stylistic checks
221 #
222 # Note that the X and C checks are not used at this time and may need
223 # modification when they are actually used.
224 #
225 CSTYLE=          $(ONBLD_TOOLS)/bin/cstyle
226 CSTYLE_TAIL=    $(ONBLD_TOOLS)/bin/cstyle
227 HDRCHK=          $(ONBLD_TOOLS)/bin/hdrchk
228 HDRCHK_TAIL=    $(ONBLD_TOOLS)/bin/hdrchk
229 JSTYLE=          $(ONBLD_TOOLS)/bin/jstyle

231 DOT_H_CHECK=     \
232     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL); \
233     $(HDRCHK) $< $(HDRCHK_TAIL)

235 DOT_X_CHECK=     \
236     @$(ECHO) "checking $<"; $(RPCGEN) -C -h $< | $(CSTYLE) $(CSTYLE_TAIL); \
237     $(RPCGEN) -C -h $< | $(HDRCHK) $< $(HDRCHK_TAIL)

239 DOT_C_CHECK=     \
240     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL)

242 MANIFEST_CHECK= \
243     @$(ECHO) "checking $<"; \
244     SVCCFG_DTD=$(SRC)/cmd/svc/dtd/service_bundle.dtd.1 \
245     SVCCFG_REPOSITORY=$(SRC)/cmd/svc/seed/global.db \
246     SVCCFG_CONFIGD_PATH=$(SRC)/cmd/svc/configd/svc.configd-native \
247     $(SRC)/cmd/svc/svccfg/svccfg-native validate $<

249 INS.file=        $(RM) $@; $(INS) -s -m $(FILEMODE) -f $(@D) $<
250 INS.dir=         $(INS) -s -d -m $(DIRMODE) $@
251 # installs and renames at once
252 #
253 INS.rename=      $(INS.file); $(MV) $(@D)/$(<F) $@

255 # install a link
256 INSLINKTARGET=  $<
257 INS.link=        $(RM) $@; $(LN) $(INSLINKTARGET) $@
258 INS.symlink=     $(RM) $@; $(SYMLINK) $(INSLINKTARGET) $@

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4

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260 #
261 # Python bakes the mtime of the .py file into the compiled .pyc and
262 # rebuilds if the baked-in mtime != the mtime of the source file
263 # (rather than only if it's less than), thus when installing python
264 # files we must make certain to not adjust the mtime of the source
265 # (.py) file.
266 #
267 INS.pyfile=      $(RM) $@; $(SED) -e "ls:^\#!@PYTHON@:\#!$(PYTHON):" < $< > $@; $

269 # MACH must be set in the shell environment per uname -p on the build host
270 # More specific architecture variables should be set in lower makefiles.
271 #
272 # MACH64 is derived from MACH, and BUILD64 is set to '#' for
273 # architectures on which we do not build 64-bit versions.
274 # (There are no such architectures at the moment.)
275 #
276 # Set BUILD64=# in the environment to disable 64-bit amd64
277 # builds on i386 machines.

279 MACH64_1=        $(MACH:sparc=sparcv9)
280 MACH64=          $(MACH64_1:i386=amd64)

282 MACH32_1=        $(MACH:sparc=sparcv7)
283 MACH32=          $(MACH32_1:i386=i86)

285 sparc_BUILD64=
286 i386_BUILD64=
287 BUILD64=         $($MACH)_BUILD64)

289 #
290 # C compiler mode. Future compilers may change the default on us,
291 # so force extended ANSI mode globally. Lower level makefiles can
292 # override this by setting CCMODE.
293 #
294 CCMODE=          -Xa
295 CCMODE64=        -Xa

297 #
298 # C compiler verbose mode. This is so we can enable it globally,
299 # but turn it off in the lower level makefiles of things we cannot
300 # (or aren't going to) fix.
301 #
302 CCVERBOSE=       -v

304 # set this to the secret flag "-Wc,-Qiselect-v9abiwarn=1" to get warnings
305 # from the compiler about places the -xarch=v9 may differ from -xarch=v9c.
306 V9ABIWARN=

308 # set this to the secret flag "-Wc,-Qiselect-regsym=0" to disable register
309 # symbols (used to detect conflicts between objects that use global registers)
310 # we disable this now for safety, and because genunix doesn't link with
311 # this feature (the v9 default) enabled.
312 #
313 # REGSYM is separate since the C++ driver syntax is different.
314 CCREGSYM=        -Wc,-Qiselect-regsym=0
315 CCCREGSYM=       -Qoption cg -Qiselect-regsym=0

317 # Prevent the removal of static symbols by the SPARC code generator (cg).
318 # The x86 code generator (ube) does not remove such symbols and as such
319 # using this workaround is not applicable for x86.
320 #
321 CCSTATICSYM=     -Wc,-Qassembler-ounrefsym=0
322 #
323 # generate 32-bit addresses in the v9 kernel. Saves memory.
324 CCABS32=         -Wc,-xcode=abs32
325 #

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326 # generate v9 code which tolerates callers using the v7 ABI, for the sake of
327 # system calls.
328 CC32BITCALLERS=  -_gcc=-massume-32bit-callers

330 # GCC, especially, is increasingly beginning to auto-inline functions and
331 # sadly does so separately not under the general -fno-inline-functions
332 # Additionally, we wish to prevent optimisations which cause GCC to clone
333 # functions -- in particular, these may cause unhelpful symbols to be
334 # emitted instead of function names
335 CCNOAUTOINLINE= \
336   -_gcc=-fno-inline-small-functions \
337   -_gcc=-fno-inline-functions-called-once \
338   -_gcc=-fno-ipa-cp \
339   -_gcc6=-fno-ipa-icf \
340   -_gcc7=-fno-ipa-icf \
341   -_gcc8=-fno-ipa-icf \
342   -_gcc6=-fno-clone-functions \
343   -_gcc7=-fno-clone-functions \
344   -_gcc8=-fno-clone-functions

346 # One optimization the compiler might perform is to turn this:
347 #   #pragma weak foo
348 #   extern int foo;
349 #   if (&foo)
350 #       foo = 5;
351 # into
352 #   foo = 5;
353 # Since we do some of this (foo might be referenced in common kernel code
354 # but provided only for some cpu modules or platforms), we disable this
355 # optimization.
356 #
357 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
358 i386_CCUNBOUND  =
359 CCUNBOUND       = $($MACH)_CCUNBOUND)

361 #
362 # compiler '-xarch' flag. This is here to centralize it and make it
363 # overridable for testing.
364 sparc_XARCH=     -m32
365 sparcv9_XARCH=  -m64
366 i386_XARCH=     -m32
367 amd64_XARCH=    -m64 -Ui386 -U__i386

369 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
370 sparc_AS_XARCH=  -xarch=v8plus
371 sparcv9_AS_XARCH= -xarch=v9
372 i386_AS_XARCH=
373 amd64_AS_XARCH=  -xarch=amd64 -P -Ui386 -U__i386

375 #
376 # These flags define what we need to be 'standalone' i.e. -not- part
377 # of the rather more cosy userland environment. This basically means
378 # the kernel.
379 #
380 # XX64 future versions of gcc will make -mmodel=kernel imply -mno-red-zone
381 #
382 sparc_STAND_FLAGS= -_gcc=-ffreestanding
383 sparcv9_STAND_FLAGS= -_gcc=-ffreestanding
384 # Disabling MMX also disables 3DNow, disabling SSE also disables all later
385 # additions to SSE (SSE2, AVX ,etc.)
386 NO_SIMD=          -_gcc=-mno-mmx -_gcc=-mno-sse
387 i386_STAND_FLAGS= -_gcc=-ffreestanding $(NO_SIMD)
388 amd64_STAND_FLAGS= -xmodel=kernel $(NO_SIMD)

390 SAVEARGS=        -Wu,-save_args
391 amd64_STAND_FLAGS += $(SAVEARGS)

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393 STAND_FLAGS_32 = $($ (MACH)_STAND_FLAGS)
394 STAND_FLAGS_64 = $($ (MACH64)_STAND_FLAGS)

396 #
397 # disable the incremental linker
398 ILDOFF=          -xildoff
399 #
400 XFFLAG=          -xF=%all
401 XESS=            -xs
402 XSTRCONST=      -xstrconst

404 #
405 # turn warnings into errors (C)
406 CERRWARN = -errtags=yes -errwarn=%all
407 CERRWARN += -erroff=E_EMPTY_TRANSLATION_UNIT
408 CERRWARN += -erroff=E_STATEMENT_NOT_REACHED

410 CERRWARN += _gcc=-Wno-missing-braces
411 CERRWARN += _gcc=-Wno-sign-compare
412 CERRWARN += _gcc=-Wno-unknown-pragmas
413 CERRWARN += _gcc=-Wno-unused-parameter
414 CERRWARN += _gcc=-Wno-missing-field-initializers

416 # Unfortunately, this option can misfire very easily and unfixably.
417 CERRWARN += _gcc=-Wno-array-bounds

419 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
420 # -nd builds
421 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-unused
422 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-empty-body

424 #
425 # turn warnings into errors (C++)
426 CCERRWARN=      -xwe

428 # C standard. Keep Studio flags until we get rid of lint.
429 CSTD_GNU89=     -xc99=%none
430 CSTD_GNU99=     -xc99=%all
431 CSTD=           $(CSTD_GNU89)
432 C99LMODE=      $(CSTD:-xc99%=-Xc99%)

434 # In most places, assignments to these macros should be appended with +=
435 # (CPPFLAGS.first allows values to be prepended to CPPFLAGS).
436 sparc_CFLAGS=   $(sparc_XARCH) $(CCSTATICSYM)
437 sparcv9_CFLAGS= $(sparcv9_XARCH) -dalign $(CCVERBOSE) $(V9ABIWARN) $(CCREGSYM) \
438                 $(CCSTATICSYM)
439 i386_CFLAGS=    $(i386_XARCH)
440 amd64_CFLAGS=   $(amd64_XARCH)

442 sparc_ASFLAGS=  $(sparc_AS_XARCH)
443 sparcv9_ASFLAGS=$(sparcv9_AS_XARCH)
444 i386_ASFLAGS=   $(i386_AS_XARCH)
445 amd64_ASFLAGS=  $(amd64_AS_XARCH)

447 #
448 sparc_COPTFLAG= -xO3
449 sparcv9_COPTFLAG= -xO3
450 i386_COPTFLAG=  -O
451 amd64_COPTFLAG= -xO3

453 COPTFLAG=      $($ (MACH)_COPTFLAG)
454 COPTFLAG64=    $($ (MACH64)_COPTFLAG)

456 # When -g is used, the compiler globalizes static objects
457 # (gives them a unique prefix). Disable that.

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458 CNOGLOBAL=    -W0,-noglobal

460 # Direct the Sun Studio compiler to use a static globalization prefix based on t
461 # name of the module rather than something unique. Otherwise, objects
462 # will not build deterministically, as subsequent compilations of identical
463 # source will yeild objects that always look different.
464 #
465 # In the same spirit, this will also remove the date from the N_OPT stab.
466 CGLOBALSTATIC= -W0,-xglobalstatic

468 # Sometimes we want all symbols and types in debugging information even
469 # if they aren't used.
470 CALLSYMS=      -W0,-xdbggen=no%usedonly

472 #
473 # Default debug format for Sun Studio 11 is dwarf, so force it to
474 # generate stabs.
475 #
476 DEBUGFORMAT=   -xdebugformat=stabs

478 #
479 # Flags used to build in debug mode for ctf generation. Bugs in the Devpro
480 # compilers currently prevent us from building with cc-emitted DWARF.
481 #
482 CTF_FLAGS_sparc = -g -Wc,-Qiselect-T1 $(CSTD) $(CNOGLOBAL) $(CDWARFSTR)
483 CTF_FLAGS_i386  = -g $(CSTD) $(CNOGLOBAL) $(CDWARFSTR)

485 CTF_FLAGS_sparcv9 = $(CTF_FLAGS_sparc)
486 CTF_FLAGS_amd64   = $(CTF_FLAGS_i386)

488 # Sun Studio produces broken userland code when saving arguments.
489 $(__GNUCC)CTF_FLAGS_amd64 += $(SAVEARGS)

491 CTF_FLAGS_32      = $(CTF_FLAGS_$(MACH)) $(DEBUGFORMAT)
492 CTF_FLAGS_64     = $(CTF_FLAGS_$(MACH64)) $(DEBUGFORMAT)
493 CTF_FLAGS        = $(CTF_FLAGS_32)

495 #
496 # Flags used with genoffsets
497 #
498 GOFLAGS = $(CALLSYMS) $(CDWARFSTR)

500 OFFSETS_CREATE = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
501                 $(CW) --noecho $(CW_CC_COMPILERS) -- $(GOFLAGS) $(CFLAGS) $(CPPFLAGS)

503 OFFSETS_CREATE64 = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
504                   $(CW) --noecho $(CW_CC_COMPILERS) -- $(GOFLAGS) $(CFLAGS64) $(CPPFLAGS)

506 #
507 # tradeoff time for space (smaller is better)
508 #
509 sparc_SPACEFLAG = -xspace -W0,-It
510 sparcv9_SPACEFLAG = -xspace -W0,-It
511 i386_SPACEFLAG = -xspace
512 amd64_SPACEFLAG =

514 SPACEFLAG = $($ (MACH)_SPACEFLAG)
515 SPACEFLAG64 = $($ (MACH64)_SPACEFLAG)

517 #
518 # The Sun Studio 11 compiler has changed the behaviour of integer
519 # wrap arounds and so a flag is needed to use the legacy behaviour
520 # (without this flag panics/hangs could be exposed within the source).
521 #
522 sparc_IROPTFLAG = -W2,-xwrap_int
523 sparcv9_IROPTFLAG = -W2,-xwrap_int

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524 i386_IROPTFLAG      =
525 amd64_IROPTFLAG    =

527 IROPTFLAG          = ${$(MACH)_IROPTFLAG}
528 IROPTFLAG64        = ${$(MACH64)_IROPTFLAG}

530 sparc_XREGSFLAG     = -xregs=no%appl
531 sparcv9_XREGSFLAG   = -xregs=no%appl
532 i386_XREGSFLAG      =
533 amd64_XREGSFLAG     =

535 XREGSFLAG           = ${$(MACH)_XREGSFLAG}
536 XREGSFLAG64        = ${$(MACH64)_XREGSFLAG}

538 # dmake SOURCEDEBUG=yes ... enables source-level debugging information, and
539 # avoids stripping it.
540 SOURCEDEBUG         = $(POUND_SIGN)
541 SRCDBGBLD           = $(SOURCEDEBUG:yes=)

543 #
544 # These variables are intended ONLY for use by developers to safely pass extra
545 # flags to the compilers without unintentionally overriding Makefile-set
546 # flags. They should NEVER be set to any value in a Makefile.
547 #
548 # They come last in the associated FLAGS variable such that they can
549 # explicitly override things if necessary, there are gaps in this, but it's
550 # the best we can manage.
551 #
552 CUSERFLAGS          =
553 CUSERFLAGS64        = $(CUSERFLAGS)
554 CCUSERFLAGS         =
555 CCUSERFLAGS64       = $(CCUSERFLAGS)

557 CSOURCEDEBUGFLAGS   =
558 CCSOURCEDEBUGFLAGS  =
559 $(SRCDBGBLD)CSOURCEDEBUGFLAGS = -g -xs
560 $(SRCDBGBLD)CCSOURCEDEBUGFLAGS = -g -xs

562 CFLAGS=              $(COPTFLAG) ${$(MACH)_CFLAGS} $(SPACEFLAG) $(CCMODE) \
563                      $(ILDOFF) $(CERRWARN) $(CSTD) $(CCUNBOUND) $(IROPTFLAG) \
564                      $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
565                      $(CUSERFLAGS)
566 CFLAGS64=            $(COPTFLAG64) ${$(MACH64)_CFLAGS} $(SPACEFLAG64) $(CCMODE64) \
567                      $(ILDOFF) $(CERRWARN) $(CSTD) $(CCUNBOUND) $(IROPTFLAG64) \
568                      $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
569                      $(CUSERFLAGS64)
570 #
571 # Flags that are used to build parts of the code that are subsequently
572 # run on the build machine (also known as the NATIVE_BUILD).
573 #
574 NATIVE_CFLAGS=       $(COPTFLAG) ${$(NATIVE_MACH)_CFLAGS} $(CCMODE) \
575                      $(ILDOFF) $(CERRWARN) $(CSTD) ${$(NATIVE_MACH)_CCUNBOUND} \
576                      $(IROPTFLAG) $(CGLOBALSTATIC) $(CCNOAUTOINLINE) \
577                      $(CSOURCEDEBUGFLAGS) $(CUSERFLAGS)

579 DTEXTDOM=-DTEXT_DOMAIN="\$(TEXT_DOMAIN)" # For messaging.
580 DTS_ERRNO=-D_TS_ERRNO
581 CPPFLAGS.first= # Please keep empty. Only lower makefiles should set this.
582 CPPFLAGS.master=$(DTEXTDOM) $(DTS_ERRNO) \
583                 $(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) $(ENVCPPFLAGS4) \
584                 $(ADJUNCT_PROTO:%=-I%/usr/include)
585 CPPFLAGS.native=$(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) \
586                 $(ENVCPPFLAGS4) -I$(NATIVE_ADJUNCT)/include
587 CPPFLAGS=           $(CPPFLAGS.first) $(CPPFLAGS.master)
588 AS_CPPFLAGS=        $(CPPFLAGS.first) $(CPPFLAGS.master)
589 JAVAFLAGS=          -source 1.6 -target 1.6 -Xlint:deprecation,-options

```

```

591 #
592 # For source message catalogue
593 #
594 .SUFFIXES: $(SUFFIXES) .i .po
595 MSGROOT= $(ROOT)/catalog
596 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)
597 MSGDOMAINPOFILE = $(MSGDOMAIN)/$(POFILE)
598 DCMMSGDOMAIN= $(MSGROOT)/LC_TIME/$(TEXT_DOMAIN)
599 DCMMSGDOMAINPOFILE = $(DCMSGDOMAIN)/$(DCFILE:.dc=.po)

601 CLOBBERFILES += $(POFILE) $(POFILES)
602 COMPILE.cpp= $(CC) -E -C $(CFLAGS) $(CPPFLAGS)
603 XGETTEXT= /usr/bin/xgettext
604 XGETTEXTFLAGS= -c TRANSLATION_NOTE
605 GNUXGETTEXT= /usr/gnu/bin/xgettext
606 GNUXGETTEXTFLAGS= --add-comments=TRANSLATION_NOTE --keyword=_ \
607                  --strict --no-location --omit-header
608 BUILD.po= $(XGETTEXT) $(XGETTEXTFLAGS) -d $(<F) $<.i ;\
609           $(RM) $@ ;\
610           $(SED) "/^domain/d" < $(<F).po > $@ ;\
611           $(RM) $(<F).po $<.i

613 #
614 # This is overwritten by local Makefile when PROG is a list.
615 #
616 POFILE= $(PROG).po

618 sparc_CCFLAGS=       -cg92 -compat=4 \
619                     -Qoption ccfe -messages=no%anachronism \
620                     $(CCERRWARN)
621 sparcv9_CCFLAGS=     $(sparcv9_XARCH) -dalign -compat=5 \
622                     -Qoption ccfe -messages=no%anachronism \
623                     -Qoption ccfe -features=no%conststrings \
624                     $(CCREGSYM) \
625                     $(CCERRWARN)
626 i386_CCFLAGS=        -compat=4 \
627                     -Qoption ccfe -messages=no%anachronism \
628                     -Qoption ccfe -features=no%conststrings \
629                     $(CCERRWARN)
630 amd64_CCFLAGS=       $(amd64_XARCH) -compat=5 \
631                     -Qoption ccfe -messages=no%anachronism \
632                     -Qoption ccfe -features=no%conststrings \
633                     $(CCERRWARN)

635 sparc_CCOPTFLAG=    -O
636 sparcv9_CCOPTFLAG=  -O
637 i386_CCOPTFLAG=     -O
638 amd64_CCOPTFLAG=    -O

640 CCOPTFLAG=          ${$(MACH)_CCOPTFLAG}
641 CCOPTFLAG64=        ${$(MACH64)_CCOPTFLAG}
642 CCFLAGS=            $(CCOPTFLAG) ${$(MACH)_CCFLAGS} $(CCSOURCEDEBUGFLAGS) \
643                     $(CUSERFLAGS)
644 CCFLAGS64=          $(CCOPTFLAG64) ${$(MACH64)_CCFLAGS} $(CCSOURCEDEBUGFLAGS) \
645                     $(CUSERFLAGS64)

647 #
648 #
649 #
650 ELFWRAP_FLAGS =
651 ELFWRAP_FLAGS64 = -64

653 #
654 # Various mapfiles that are used throughout the build, and delivered to
655 # /usr/lib/ld.

```

```

656 #
657 MAPFILE.NED_i386 =      $(SRC)/common/mapfiles/common/map.noexdata
658 MAPFILE.NED_sparc =
659 MAPFILE.NED =           $(MAPFILE.NED_$(MACH))
660 MAPFILE.PGA =           $(SRC)/common/mapfiles/common/map.pagealign
661 MAPFILE.NES =           $(SRC)/common/mapfiles/common/map.noexstk
662 MAPFILE.FLT =           $(SRC)/common/mapfiles/common/map.filter
663 MAPFILE.LEX =           $(SRC)/common/mapfiles/common/map.lex.yy

665 #
666 # Generated mapfiles that are compiler specific, and used throughout the
667 # build. These mapfiles are not delivered in /usr/lib/ld.
668 #
669 MAPFILE.NGB_sparc=      $(SRC)/common/mapfiles/gen/sparc_cc_map.noexglobs
670 $(__GNUC64)MAPFILE.NGB_sparc= \
671     $(SRC)/common/mapfiles/gen/sparc_gcc_map.noexglobs
672 MAPFILE.NGB_sparcv9=   $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexglobs
673 $(__GNUC64)MAPFILE.NGB_sparcv9= \
674     $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexglobs
675 MAPFILE.NGB_i386=     $(SRC)/common/mapfiles/gen/i386_cc_map.noexglobs
676 $(__GNUC64)MAPFILE.NGB_i386= \
677     $(SRC)/common/mapfiles/gen/i386_gcc_map.noexglobs
678 MAPFILE.NGB_amd64=    $(SRC)/common/mapfiles/gen/amd64_cc_map.noexglobs
679 $(__GNUC64)MAPFILE.NGB_amd64= \
680     $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexglobs
681 MAPFILE.NGB =         $(MAPFILE.NGB_$(MACH))

683 #
684 # A generic interface mapfile name, used by various dynamic objects to define
685 # the interfaces and interposers the object must export.
686 #
687 MAPFILE.INT =         mapfile-intf

689 #
690 # LDLIBS32 and LDLIBS64 can be set in the environment to override the following
691 # assignments.
692 #
693 # These environment settings make sure that no libraries are searched outside
694 # of the local workspace proto area:
695 #     LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
696 #     LDLIBS64=-YP,$ROOT/lib:$MACH64:$ROOT/usr/lib:$MACH64
697 #
698 LDLIBS32 =             $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
699 LDLIBS32 +=           $(ADJUNCT_PROTO:%=-L%/usr/lib -L%/lib)
700 LDLIBS.cmd =          $(LDLIBS32)
701 LDLIBS.lib =          $(LDLIBS32)

703 LDLIBS64 =           $(ENVLDLIBS1:%=%/$(MACH64)) \
704     $(ENVLDLIBS2:%=%/$(MACH64)) \
705     $(ENVLDLIBS3:%=%/$(MACH64))
706 LDLIBS64 +=          $(ADJUNCT_PROTO:%=-L%/usr/lib/$(MACH64) -L%/lib/$(MACH64))

708 #
709 # Define compilation macros.
710 #
711 COMPILER.c=           $(CC) $(CFLAGS) $(CPPFLAGS) -c
712 COMPILER64.c=         $(CC) $(CFLAGS64) $(CPPFLAGS) -c
713 COMPILER.cc=          $(CCC) $(CFLAGS) $(CPPFLAGS) -c
714 COMPILER64.cc=       $(CCC) $(CFLAGS64) $(CPPFLAGS) -c
715 COMPILER.s=           $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
716 COMPILER64.s=        $(AS) $(ASFLAGS) $(MACH64)_AS_XARCH $(AS_CPPFLAGS)
717 COMPILER.d=           $(DTRACE) -G -32
718 COMPILER64.d=        $(DTRACE) -G -64
719 COMPILER.b=           $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
720 COMPILER64.b=        $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

```

```

722 CLASSPATH=           .
723 COMPILE.java=        $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

725 #
726 # Link time macros
727 #
728 CCNEEDED              = -lC
729 CCEXTNEEDED          = -lCrun -lCstd
730 $(__GNUC)CCNEEDED    = -L$(GCCLIBDIR) -lstdc++ -lgcc_s
731 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

733 LINK.c=              $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
734 LINK64.c=            $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
735 NORUNPATH=           -norunpath -nolib
736 LINK.cc=             $(CCC) $(CFLAGS) $(CPPFLAGS) $(NORUNPATH) \
737     $(LDFLAGS) $(CCNEEDED)
738 LINK64.cc=          $(CCC) $(CFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
739     $(LDFLAGS) $(CCNEEDED)

741 #
742 # lint macros
743 #
744 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once
745 # ON is built with a version of lint that has the fix for 4484186.
746 #
747 ALWAYS_LINT_DEFS =   -errtags=yes -s
748 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
749 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV
750 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME
751 ALWAYS_LINT_DEFS += $(C99LMODE)
752 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
753 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREATE_WITHOUT_EXCL
754 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
755 # XX64 -- really only needed for amd64 lint
756 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
757 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
758 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
759 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
760 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
761 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED
762 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
763 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

765 # This forces lint to pick up note.h and sys/note.h from Devpro rather than
766 # from the proto area. The note.h that ON delivers would disable NOTE().
767 ONLY_LINT_DEFS =     -I$(SPRO_VROOT)/prod/include/lint

769 SECLEVEL=           core
770 LINT.c=              $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS) $(CPPFLAGS) \
771     $(ALWAYS_LINT_DEFS)
772 LINT64.c=           $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS64) $(CPPFLAGS) \
773     $(ALWAYS_LINT_DEFS)
774 LINT.s=              $(LINT.c)

776 # For some future builds, NATIVE_MACH and MACH might be different.
777 # Therefore, NATIVE_MACH needs to be redefined in the
778 # environment as 'uname -p' to override this macro.
779 #
780 # For now at least, we cross-compile amd64 on i386 machines.
781 NATIVE_MACH=         $(MACH:amd64=i386)

783 # Define native compilation macros
784 #

786 # Base directory where compilers are loaded.
787 # Defined here so it can be overridden by developer.

```

```

788 #
789 SPRO_ROOT=           $(BUILD_TOOLS)/SUNWsprio
790 SPRO_VROOT=          $(SPRO_ROOT)/SS12
791 GNU_ROOT=            /usr

793 $(__GNUC)PRIMARY_CC= gcc4,$(GNUC_ROOT)/bin/gcc.gnu
794 $(__SUNC)PRIMARY_CC= studio12,$(SPRO_VROOT)/bin/cc.sun
795 $(__GNUC)PRIMARY_CCC= gcc4,$(GNUC_ROOT)/bin/g++.gnu
796 $(__SUNC)PRIMARY_CCC= studio12,$(SPRO_VROOT)/bin/CC.sun

798 CW_CC_COMPILERS=     $(PRIMARY_CC:%--primary %) $(SHADOW_CCS:%--shadow %)
799 CW_CCC_COMPILERS=    $(PRIMARY_CCC:%--primary %) $(SHADOW_CCCS:%--shadow %)

802 # Till SS12ul formally becomes the NV CBE, LINT is hard
803 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/
804 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
805 # i386_LINT, amd64_LINT.
806 # Reset them when SS12ul is rolled out.
807 #

809 # Specify platform compiler versions for languages
810 # that we use (currently only c and c++).
811 #
812 CW=                  $(ONBLD_TOOLS)/bin/$(MACH)/cw

814 BUILD_CC=           $(CW) $(CW_CC_COMPILERS) --
815 BUILD_CCC=           $(CW) -C $(CW_CCC_COMPILERS) --
816 BUILD_CPP=           /usr/ccs/lib/cpp
817 BUILD_LD=            /usr/ccs/bin/ld
818 BUILD_LINT=          $(SPRO_ROOT)/sunstudio12.1/bin/lint

820 $(MACH)_CC=          $(BUILD_CC)
821 $(MACH)_CCC=          $(BUILD_CCC)
822 $(MACH)_CPP=          $(BUILD_CPP)
823 $(MACH)_LD=           $(BUILD_LD)
824 $(MACH)_LINT=         $(BUILD_LINT)
825 $(MACH64)_CC=        $(BUILD_CC)
826 $(MACH64)_CCC=        $(BUILD_CCC)
827 $(MACH64)_CPP=        $(BUILD_CPP)
828 $(MACH64)_LD=         $(BUILD_LD)
829 $(MACH64)_LINT=       $(BUILD_LINT)

831 sparc_AS=            /usr/ccs/bin/as -xregsym=no
832 sparcv9_AS=          $(MACH)_AS

834 i386_AS=             /usr/ccs/bin/as
835 $(__GNUC)i386_AS=    $(ONBLD_TOOLS)/bin/$(MACH)/aw
836 amd64_AS=            $(ONBLD_TOOLS)/bin/$(MACH)/aw

838 NATIVECC=           $(MACH)_CC
839 NATIVECCC=           $(MACH)_CCC
840 NATIVECPP=           $(MACH)_CPP
841 NATIVEAS=            $(MACH)_AS
842 NATIVELD=            $(MACH)_LD
843 NATIVELINT=          $(MACH)_LINT

845 #
846 # Makefile.master.64 overrides these settings
847 #
848 CC=                  $(NATIVECC)
849 CCC=                  $(NATIVECCC)
850 CPP=                  $(NATIVECPP)
851 AS=                   $(NATIVEAS)
852 LD=                   $(NATIVELD)
853 LINT=                 $(NATIVELINT)

```

```

855 # Pass -Y flag to cpp (method of which is release-dependent)
856 CCYFLAG=             -Y I,

858 BDIRECT=             -Bdirect
859 BDYNAMIC=            -Bdynamic
860 BLOCAL=              -Blocal
861 BNODIRECT=           -Bnodirect
862 BREDUCE=             -Breduce
863 BSTATIC=             -Bstatic

865 ZDEFS=               -zdefs
866 ZDIRECT=             -zdirect
867 ZIGNORE=            -zignore
868 ZINITFIRST=         -zinitfirst
869 ZINTERPOSE=         -zinterpose
870 ZLAZYLOAD=          -zlazyload
871 ZLOADFLTR=          -zloadfltr
872 ZMULDEFS=           -zmuldefs
873 ZNODEFAULTLIB=      -znodefaultlib
874 ZNODEFS=            -znoddefs
875 ZNODELETE=          -znodelete
876 ZNODLOPEN=          -znodlopen
877 ZNODUMP=            -znodump
878 ZNOLAZYLOAD=        -znolazyload
879 ZNOLDYNSYM=         -znolddynsym
880 ZNORELOC=           -znoreloc
881 ZNOVERSION=         -znoversion
882 ZRECORD=            -zrecord
883 ZREDLOCSYM=         -zredlocsym
884 ZTEXT=              -ztext
885 ZVERBOSE=           -zverbose

887 GSHARED=            -G
888 CCMT=               -mt

890 # Handle different PIC models on different ISAs
891 # (May be overridden by lower-level Makefiles)

893 sparc_C_PICFLAGS =   -fpic
894 sparcv9_C_PICFLAGS = -fpic
895 i386_C_PICFLAGS =    -fpic
896 amd64_C_PICFLAGS =   -fpic
893 sparc_C_PICFLAGS =   -K pic
894 sparcv9_C_PICFLAGS = -K pic
895 i386_C_PICFLAGS =    -K pic
896 amd64_C_PICFLAGS =   -K pic
897 C_PICFLAGS =         $(MACH)_C_PICFLAGS
898 C_PICFLAGS64 =       $(MACH64)_C_PICFLAGS

900 sparc_C_BIGPICFLAGS = -fPIC
901 sparcv9_C_BIGPICFLAGS = -fPIC
902 i386_C_BIGPICFLAGS = -fPIC
903 amd64_C_BIGPICFLAGS = -fPIC
900 sparc_C_BIGPICFLAGS = -K PIC
901 sparcv9_C_BIGPICFLAGS = -K PIC
902 i386_C_BIGPICFLAGS = -K PIC
903 amd64_C_BIGPICFLAGS = -K PIC
904 C_BIGPICFLAGS =     $(MACH)_C_BIGPICFLAGS
905 C_BIGPICFLAGS64 =   $(MACH64)_C_BIGPICFLAGS

907 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
908 # and does not support -f
909 sparc_CC_PICFLAGS =   -_cc=-Kpic -_gcc=-fpic
910 sparcv9_CC_PICFLAGS = -_cc=-KPIC -_gcc=-fPIC
911 i386_CC_PICFLAGS =   -_cc=-Kpic -_gcc=-fpic

```

```

912 amd64_CC_PICFLAGS =    -_cc=-Kpic -_gcc=-fpic
908 sparc_CC_PICFLAGS =   -Kpic
909 sparcv9_CC_PICFLAGS = -KPIC
910 i386_CC_PICFLAGS =     -Kpic
911 amd64_CC_PICFLAGS =    -Kpic
913 CC_PICFLAGS =          $( $(MACH)_CC_PICFLAGS )
914 CC_PICFLAGS64 =       $( $(MACH64)_CC_PICFLAGS )

916 AS_PICFLAGS=          -K pic
917 AS_BIGPICFLAGS=       -K PIC
915 AS_PICFLAGS=          $(C_PICFLAGS)
916 AS_BIGPICFLAGS=       $(C_BIGPICFLAGS)

919 #
920 # Default label for CTF sections
921 #
922 CTFCVTFLAGS=          -i -L VERSION

924 #
925 # Override to pass module-specific flags to ctfmerge.  Currently used only by
926 # krtld to turn on fuzzy matching, and source-level debugging to inhibit
927 # stripping.
928 #
929 CTFMRGFLAGS=

931 CTFCONVERT_O          = $(CTFCONVERT) $(CTFCVTFLAGS) $@

933 # Rules (normally from make.rules) and macros which are used for post
934 # processing files.  Normally, these do stripping of the comment section
935 # automatically.
936 #   RELEASE_CM:      Should be edited to reflect the release.
937 #   POST_PROCESS_O:  Post-processing for '.o' files.
938 #   POST_PROCESS_A:  Post-processing for '.a' files (currently null).
939 #   POST_PROCESS_SO: Post-processing for '.so' files.
940 #   POST_PROCESS:    Post-processing for executable files (no suffix).
941 # Note that these macros are not completely generalized as they are to be
942 # used with the file name to be processed following.
943 #
944 # It is left as an exercise to Release Engineering to embellish the generation
945 # of the release comment string.
946 #
947 #   If this is a standard development build:
948 #       compress the comment section (mcs -c)
949 #       add the standard comment (mcs -a $(RELEASE_CM))
950 #       add the development specific comment (mcs -a $(DEV_CM))
951 #
952 #   If this is an installation build:
953 #       delete the comment section (mcs -d)
954 #       add the standard comment (mcs -a $(RELEASE_CM))
955 #       add the development specific comment (mcs -a $(DEV_CM))
956 #
957 #   If this is an release build:
958 #       delete the comment section (mcs -d)
959 #       add the standard comment (mcs -a $(RELEASE_CM))
960 #
961 # The following list of macros are used in the definition of RELEASE_CM
962 # which is used to label all binaries in the build:
963 #
964 #   RELEASE          Specific release of the build, eg: 5.2
965 #   RELEASE_MAJOR    Major version number part of $(RELEASE)
966 #   RELEASE_MINOR    Minor version number part of $(RELEASE)
967 #   VERSION          Version of the build (alpha, beta, Generic)
968 #   PATCHID         If this is a patch this value should contain
969 #                   the patchid value (eg: "Generic 100832-01"), otherwise
970 #                   it will be set to $(VERSION)
971 #   RELEASE_DATE     Date of the Release Build

```

```

972 #   PATCH_DATE      Date the patch was created, if this is blank it
973 #                   will default to the RELEASE_DATE
974 #
975 RELEASE_MAJOR=       5
976 RELEASE_MINOR=      11
977 RELEASE=             $(RELEASE_MAJOR).$(RELEASE_MINOR)
978 VERSION=             SunOS Development
979 PATCHID=             $(VERSION)
980 RELEASE_DATE=       release date not set
981 PATCH_DATE=         $(RELEASE_DATE)
982 RELEASE_CM=         "$ ($(POUND_SIGN))SunOS $(RELEASE) $(PATCHID) $(PATCH_DATE)"
983 DEV_CM=             "$ ($(POUND_SIGN))SunOS Internal Development: non-nightly build"

985 PROCESS_COMMENT=    @$ {MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
986 $(RELEASE_BUILD)PROCESS_COMMENT= @$ {MCS} -d -a $(RELEASE_CM)

988 STRIP_STABS=        $(STRIP) -x $@
989 $(SRCSBGBLD)STRIP_STABS= :

991 POST_PROCESS_O=
992 POST_PROCESS_A=
993 POST_PROCESS_SO=    $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
994                   $(ELFSIGN_OBJECT)
995 POST_PROCESS=       $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
996                   $(ELFSIGN_OBJECT)

998 #
999 # chk4ubin is a tool that inspects a module for a symbol table
1000 # ELF section size which can trigger an OBP bug on older platforms.
1001 # This problem affects only specific sun4u bootable modules.
1002 #
1003 CHK4UBIN=           $(ONBLD_TOOLS)/bin/$(MACH)/chk4ubin
1004 CHK4UBINFLAGS=
1005 CHK4UBINARY=        $(CHK4UBIN) $(CHK4UBINFLAGS) $@

1007 #
1008 # PKGARCHIVE specifies the default location where packages should be
1009 # placed if built.
1010 #
1011 $(RELEASE_BUILD)PKGARCHIVESUFFIX= -nd
1012 PKGARCHIVE=$(SRC)/../../packages/$(MACH)/nightly$(PKGARCHIVESUFFIX)

1014 #
1015 # The repositories will be created with these publisher settings.  To
1016 # update an image to the resulting repositories, this must match the
1017 # publisher name provided to "pkg set-publisher."
1018 #
1019 PKGPUBLISHER_REDIST= on-nightly
1020 PKGPUBLISHER_NONREDIST= on-extra

1022 #   Default build rules which perform comment section post-processing.
1023 #
1024 .c:
1025     $(LINK.c) -o $@ $< $(LDLIBS)
1026     $(POST_PROCESS)
1027 .c.o:
1028     $(COMPILE.c) $(OUTPUT_OPTION) $< $(CTFCONVERT_HOOK)
1029     $(POST_PROCESS_O)
1030 .c.a:
1031     $(COMPILE.c) -o $% $<
1032     $(PROCESS_COMMENT) $%
1033     $(AR) $(ARFLAGS) $@ $%
1034     $(RM) $%
1035 .s.o:
1036     $(COMPILE.s) -o $@ $<
1037     $(POST_PROCESS_O)

```

```

1038 .s.a:
1039     $(COMPILE.s) -o $% $<
1040     $(PROCESS_COMMENT) $%
1041     $(AR) $(ARFLAGS) $@ $%
1042     $(RM) $%
1043 .cc:
1044     $(LINK.cc) -o $@ $< $(LDLIBS)
1045     $(POST_PROCESS)
1046 .cc.o:
1047     $(COMPILE.cc) $(OUTPUT_OPTION) $<
1048     $(POST_PROCESS_O)
1049 .cc.a:
1050     $(COMPILE.cc) -o $% $<
1051     $(AR) $(ARFLAGS) $@ $%
1052     $(PROCESS_COMMENT) $%
1053     $(RM) $%
1054 .y:
1055     $(YACC.y) $<
1056     $(LINK.c) -o $@ y.tab.c $(LDLIBS)
1057     $(POST_PROCESS)
1058     $(RM) y.tab.c
1059 .y.o:
1060     $(YACC.y) $<
1061     $(COMPILE.c) -o $@ y.tab.c $(CTFCONVERT_HOOK)
1062     $(POST_PROCESS_O)
1063     $(RM) y.tab.c
1064 .l:
1065     $(RM) $*.c
1066     $(LEX.l) $< > $*.c
1067     $(LINK.c) -o $@ $*.c -ll $(LDLIBS)
1068     $(POST_PROCESS)
1069     $(RM) $*.c
1070 .l.o:
1071     $(RM) $*.c
1072     $(LEX.l) $< > $*.c
1073     $(COMPILE.c) -o $@ $*.c $(CTFCONVERT_HOOK)
1074     $(POST_PROCESS_O)
1075     $(RM) $*.c
1077 .bin.o:
1078     $(COMPILE.b) -o $@ $<
1079     $(POST_PROCESS_O)
1081 .java.class:
1082     $(COMPILE.java) $<
1084 # Bourne and Korn shell script message catalog build rules.
1085 # We extract all gettext strings with sed(1) (being careful to permit
1086 # multiple gettext strings on the same line), weed out the dups, and
1087 # build the catalogue with awk(1).
1089 .sh.po .ksh.po:
1090     $(SED) -n -e ":a"
1091     -e "h"
1092     -e "s/.*gettext *\([^\"]*\)*\."*/\1/p"
1093     -e "x"
1094     -e "s/\(.*\)gettext *\([^\"]*\)*\."*/\1\2/"
1095     -e "t a"
1096     $< | sort -u | $(AWK) '{ print "msgid\t" $$0 "\nmsgstr" }' > $@
1098 #
1099 # Python and Perl executable and message catalog build rules.
1100 #
1101 .SUFFIXES: .pl .pm .py .pyc
1103 .pl:

```

```

1104     $(RM) $@;
1105     $(SED) -e "s@TEXT_DOMAIN@"$(TEXT_DOMAIN)"@" $< > $@;
1106     $(CHMOD) +x $@
1108 .py:
1109     $(RM) $@; $(SED) -e "1s:^\#!@PYTHON@:\#!$(PYTHON):" < $< > $@; $(CHMOD)
1111 .py.pyc:
1112     $(RM) $@
1113     $(PYTHON) -mpy_compile $<
1114     @[ $(<)c = $@ ] || $(MV) $(<)c $@
1116 .py.po:
1117     $(GNUXGETTEXT) $(GNUXGETTEXTFLAGS) -d $(<F:%.py=) $< ;
1119 .pl.po .pm.po:
1120     $(XGETTEXT) $(XGETTEXTFLAGS) -d $(<F) $< ;
1121     $(RM) $@ ;
1122     $(SED) "/^domain/d" < $(<F).po > $@ ;
1123     $(RM) $(<F).po
1125 #
1126 # When using xgettext, we want messages to go to the default domain,
1127 # rather than the specified one. This special version of the
1128 # COMPILE.cpp macro effectively prevents expansion of TEXT_DOMAIN,
1129 # causing xgettext to put all messages into the default domain.
1130 #
1131 CPPFORPO=$(COMPILE.cpp:"$(TEXT_DOMAIN)"=TEXT_DOMAIN)
1133 .c.i:
1134     $(CPPFORPO) $< > $@
1136 .h.i:
1137     $(CPPFORPO) $< > $@
1139 .y.i:
1140     $(YACC) -d $<
1141     $(CPPFORPO) y.tab.c > $@
1142     $(RM) y.tab.c
1144 .l.i:
1145     $(LEX) $<
1146     $(CPPFORPO) lex.yy.c > $@
1147     $(RM) lex.yy.c
1149 .c.po:
1150     $(CPPFORPO) $< > $<.i
1151     $(BUILD.po)
1153 .cc.po:
1154     $(CPPFORPO) $< > $<.i
1155     $(BUILD.po)
1157 .y.po:
1158     $(YACC) -d $<
1159     $(CPPFORPO) y.tab.c > $<.i
1160     $(BUILD.po)
1161     $(RM) y.tab.c
1163 .l.po:
1164     $(LEX) $<
1165     $(CPPFORPO) lex.yy.c > $<.i
1166     $(BUILD.po)
1167     $(RM) lex.yy.c
1169 #

```

new/usr/src/Makefile.master

19

```
1170 # Rules to perform stylistic checks
1171 #
1172 .SUFFIXES: .x .xml .check .xmlchk
1174 .h.check:
1175     $(DOT_H_CHECK)
1177 .x.check:
1178     $(DOT_X_CHECK)
1180 .xml.xmlchk:
1181     $(MANIFEST_CHECK)
1183 #
1184 # Include rules to render automated sccs get rules "safe".
1185 #
1186 include $(SRC)/Makefile.noget
```

```

*****
5438 Thu Oct 11 01:49:37 2018
new/usr/src/cmd/sgs/Makefile.com
9884 cw(1) should use -fpic rather than -Kpic
*****
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21 #
22 #
23 # Copyright (c) 1996, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2016 RackTop Systems.
25 #
26 #
27 .KEEP_STATE:
28 .KEEP_STATE_FILE: .make.state.$(MACH)
29 #
30 #
31 include      $(SRC)/cmd/sgs/Makefile.var
32 #
33 SRCBASE =    ../../../../
34 #
35 i386_ARCH =  intel
36 sparc_ARCH =  sparc
37 #
38 ARCH =      $(($(MACH)_ARCH))
39 #
40 # Establish any global flags.
41 #
42 # Setting DEBUG = -DDEBUG (or "make DEBUG=-DDEBUG ...") enables ASSERT()
43 # checking. This is automatically enabled for DEBUG builds, not for non-debug
44 # builds. Unset the global CSTD_GNU89 flag to insure we uncover all compiler
45 # warnings/errors.
46 DEBUG =
47 $(NOT_RELEASE_BUILD)DEBUG = -DDEBUG
48 #
49 CSTD_GNU89 =  $(CSTD_GNU99)
50 #
51 CFLAGS +=    $(CCVERBOSE) $(DEBUG) $(XFFLAG)
52 CFLAGS64 +=  $(CCVERBOSE) $(DEBUG) $(XFFLAG)
53 #
54 CERRWARN +=  _gcc=-Wno-type-limits
55 CERRWARN +=  _gcc=-Wno-parentheses
56 CERRWARN +=  _gcc=-Wno-unused-value
57 #
58 #
59 # Location of the shared elfcap code
60 #
61 ELFCAP=     $(SRC)/common/elfcap

```

```

63 # Reassign CPPFLAGS so that local search paths are used before any parent
64 # $ROOT paths.
65 CPPFLAGS =   -I. -I../common -I../include -I../include/$(MACH) \
66             $(CPPFLAGS.master) -I$(ELFCAP)
67 #
68 # PICS64 is unique to our environment
69 $(PICS64) :=  sparc_CFLAGS += -xregs=no%appl $(C_PICFLAGS)
70 $(PICS64) :=  sparcv9_CFLAGS += -xregs=no%appl $(C_PICFLAGS)
69 $(PICS64) :=  sparc_CFLAGS += -xregs=no%appl -K pic
70 $(PICS64) :=  sparcv9_CFLAGS += -xregs=no%appl -K pic
71 $(PICS64) :=  CPPFLAGS += -DPIC -D_REENTRANT
72 #
73 LDFLAGS +=   $(ZIGNORE)
74 DYNFLAGS +=  $(ZIGNORE)
75 #
76 # Establish the local tools, proto and package area.
77 #
78 SGSHOME =    $(SRC)/cmd/sgs
79 SGSPROTO =   $(SGSHOME)/proto/$(MACH)
80 SGSTOOLS =   $(SGSHOME)/tools
81 SGSMMSGID =  $(SGSHOME)/messages
82 SGSMMSGDIR = $(SGSHOME)/messages/$(MACH)
83 SGMSONLD =   $(ROOT)/opt/SUNworld
84 SCSRPATH =   /usr/lib
85 SCSRPATH64 = $(SGSRPATH)/$(MACH64)
86 #
87 # Mimic the structure of an installed system.
88 #
89 SGLIBDIR =   $(SGSPROTO)/lib
90 SGSPREFIX =  $(SGSPROTO)/usr
91 SGBINDIR =   $(SGSPREFIX)/bin
92 #
93 #
94 # Macros to be used to include link against libconv and include vernote.o
95 #
96 VERSREF =    -ulink_ver_string
97 #
98 LDLIBDIR =   -L$(SGSHOME)/libld/$(MACH)
99 LDLIBDIR64 = -L$(SGSHOME)/libld/$(MACH64)
100 #
101 CONVLIBDIR = -L$(SGSHOME)/libconv/$(MACH)
102 CONVLIBDIR64 = -L$(SGSHOME)/libconv/$(MACH64)
103 #
104 ELFLIBDIR =  -L$(SGSHOME)/libelf/$(MACH)
105 ELFLIBDIR64 = -L$(SGSHOME)/libelf/$(MACH64)
106 #
107 LDBGLIBDIR = -L$(SGSHOME)/liblddbg/$(MACH)
108 LDBGLIBDIR64 = -L$(SGSHOME)/liblddbg/$(MACH64)
109 #
110 #
111 # The cmd/Makefile.com and lib/Makefile.com define TEXT_DOMAIN. We don't need
112 # this definition as the sgs utilities obtain their domain via sgsmmsg(11).
113 #
114 DTEXTDOM =
115 #
116 # Define any generic sgsmmsg(11) flags. The default message generation system
117 # is to use gettext(3i), add the -C flag to switch to catgets(3c).
118 #
119 SGSMMSG =    $(SGSTOOLS)/$(MACH)/sgsmmsg
120 SGSMMSG_PIGLATIN_NL = perl $(SGSTOOLS)/common/sgsmmsg_piglatin_nl.pl
121 CHKMSG =     $(SGSTOOLS)/chkmsg.sh
122 #
123 SGSMMSGVFLAG =
124 SGSMMSGFLAGS = $(SGSMMSGVFLAG) -i $(SGSMMSGID)/sgs.ident
125 CHKMSGFLAGS = $(SGSMMSGTARG:%=-m %) $(SGSMMSGCHK:%=-m %)

```

```
127 # Native targets should use the minimum of ld(1) flags to allow building on
128 # previous releases. We use mapfiles to scope, but don't bother versioning.

130 native :=          DYNFLAGS = -R$(SGSLIBDIR) -L$(SGSLIBDIR) $(ZNOVERSION) \
131                   $(HSONAME)

133 # Comment out the following two lines to have the sgs built from the system
134 # link-editor, rather than the local proto link-editor.
135 CC_USE_PROTO =     -Yl,$(SGSBINDIR)
136 LD_USE_PROTO =     $(SGSBINDIR)/

138 #
139 # lint-related stuff
140 #
141 LIBNAME32 =        $(LIBNAME:%=%32)
142 LIBNAME64 =        $(LIBNAME:%=%64)
143 LIBNAMES =         $(LIBNAME32) $(LIBNAME64)

145 SGSLINTOUT =      lint.out
146 LINTOUT1 =         lint.out.1
147 LINTOUT32 =        lint.out.32
148 LINTOUT64 =        lint.out.64
149 LINTOUTS =         $(SGSLINTOUT) $(LINTOUT1) $(LINTOUT32) $(LINTOUT64)

151 LINTLIBSRC =       $(LINTLIB:%.ln=%)
152 LINTLIB32 =        $(LINTLIB:%.ln=%32.ln)
153 LINTLIB64 =        $(LINTLIB:%.ln=%64.ln)
154 LINTLIBS =         $(LINTLIB32) $(LINTLIB64)

156 LINTFLAGS =        -m -errtags=yes -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
157 LINTFLAGS64 =      -m -errtags=yes -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED \
158                   $(VAR_LINTFLAGS64)

160 #
161 # When building a lint library, no other lint libraries are verified as
162 # dependencies, nor is the standard C lint library processed. All dependency
163 # verification is carried out through linting the sources themselves.
164 #
165 $(LINTLIB) :=      LINTFLAGS += -n
166 $(LINTLIB) :=      LINTFLAGS64 += -n

168 $(LINTLIB32) :=    LINTFLAGS += -n
169 $(LINTLIB32) :=    LINTFLAGS64 += -n
170 $(LINTLIB64) :=    LINTFLAGS += -n
171 $(LINTLIB64) :=    LINTFLAGS64 += -n

173 #
174 # These libraries have two resulting lint libraries. If a dependency is
175 # declared using these variables, the substitution for the 32/64 versions at
176 # lint time happens automatically (see Makefile.targ).
177 #
178 LD_LIB =           -lld
179 LD_LIB32 =          -lld32
180 LD_LIB64 =          -lld64

182 LDDBG_LIB =        -llddbg
183 LDDBG_LIB32 =       -llddbg32
184 LDDBG_LIB64 =       -llddbg64

186 CONV_LIB =         -lconv
187 CONV_LIB32 =        -lconv32
188 CONV_LIB64 =        -lconv64
```

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

1

```
*****
2377 Thu Oct 11 01:49:37 2018
new/usr/src/cmd/sgs/rtld/sparc/Makefile
9884 cw(1) should use -fpic rather than -Kpic
*****
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20 #
21 #
22 #
23 # Copyright (c) 1990, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 # Object lists are organized into primary (most frequently used code) and
27 # secondary lists (less frequently used code, ie. a.out support).
28 #
29 P_COMOBSJ= debugdata.o \
30 analyze.o      elf.o      external.o     globals.o \
31 malloc.o      paths.o     setup.o       util.o \
32 dlfcn.o      config_elf.o  locale.o     tsort.o \
33 remove.o      move.o      tls.o        cap.o
34 #
35 S_COMOBSJ= debug.o      audit.o      object.o      cache_a.out.o \
36 a.out.o
37 #
38 G_MACHOBSJ= doreloc.o
39 #
40 P_MACHOBSJ= sparc_elf.o  _setup.o
41 #
42 CP_MACHOBSJ= common_sparc.o
43 #
44 S_MACHOBSJ= sparc_a.out.o
45 #
46 P_ASOBJ= boot.o      boot_elf.o   caller.o
47 #
48 S_ASOBJ= boot_a.out.o
49 #
50 CRTSRCS= ../../../../lib/crt/sparc
51 CRTI= pics/crti.o
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.
```

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

2

```
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 += $(AS_PICFLAGS)
71 ASFLAGS += -K pic
72 LINTFLAGS += -DA_OUT
73 ADBGENCFLAGS += -erroff=%all
74 ADBGENFLAGS += -milp32
75 ADBSUB= $(ADBSUB32)
76 SONAME= /lib/ld.so.1
77 #
78 SGSMMSGTARG += $(SGSMMSGSPARC) $(SGSMMSGSPARC32) $(SGSMMSG32)
79 #
80 .KEEP_STATE:
81 #
82 all: $(RTLD)
83 #
84 install: all $(ROOTDYNLIB)
85 #
86 lint: $(LINTOUT32)
87 #
88 adbmacos: adb .WAIT $(ADBSOCKETS)
89 #
90 adbinstall: adbmacos .WAIT $(ROOTADB)
91 #
92 include $(SRC)/cmd/sgs/rtld/Makefile.targ
```

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

1

2659 Thu Oct 11 01:49:38 2018

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

9884 cw(1) should use -fpic rather than -Kpic

```
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19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 1997, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 # Object lists are organized into primary (most frequently used code) and
27 # secondary lists (less frequently used code, ie. a.out support).
28 #
29 P_COMOBSJ= debugdata.o \
30 analyze.o      elf.o      external.o    globals.o \
31 malloc.o      paths.o    setup.o      util.o \
32 dlfcn.o      config_elf.o locale.o    tsort.o \
33 remove.o     move.o     tls.o
34 #
35 S_COMOBSJ= debug.o      audit.o      object.o
36 #
37 G_MACHOBSJ= doreloc.o
38 #
39 P_MACHOBSJ= sparc_elf.o  _setup.o
40 #
41 CP_MACHOBSJ= common_sparc.o
42 #
43 S_MACHOBSJ=
44 #
45 P_ASOBSJ= boot.o      boot_elf.o   caller.o
46 #
47 S_ASOBSJ=
48 #
49 CRTSRCS= ../../../../../lib/crt/sparc
50 CRTI= pics/crti.o
51 CRTN= pics/crtn.o
52 CRTS= $(CRTI)      $(CRTN)
53 #
54 CHKSRCS= $(SRCBASE)/uts/common/krtld/reloc.h
55 #
56 BASEPLAT = sparc
57 #
58 include $(SRC)/Makefile.master
59 #
60 # We build sparc objects with cc by default
61 MAPFILE-ORDER = ../common/mapfile-order-devpro
```

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

2

```
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 $(AS_PICFLAGS) -D__sparcv9 -D_ELF64 $(sparcv9_XARCH)
72 ASFLAGS += -s -K pic -D__sparcv9 -D_ELF64 $(sparcv9_XARCH)
73 ADBGENFLAGS += -mlp64
74 ADBGENCFLAGS += -erroff=%all
75 ADBSUB= $(ADBSUB64)
76 CPPFLAGS += -D_ELF64
77 LINTFLAGS64 += $(VAR_LINTFLAGS64)
78 SONAME= /lib/sparcv9/ld.so.1
79 #
80 #
81 SGMSGTARG += $(SGMSGSPARC) $(SGMSGSPARC64) $(SGMSG64)
82 #
83 #
84 LDLIB = -L ../../libld/(MACH64)
85 RTLDLIB = -L ../../librtld/(MACH64)
86 #
87 #
88 #
89 CPICLIB = $(CPICLIB64)
90 LDBGLIBDIR = $(LDBGLIBDIR64)
91 CONVLIBDIR = $(CONVLIBDIR64)
92 #
93 #
94 #
95 .KEEP_STATE:
96 #
97 #
98 #
99 all: $(RTLD)
100 #
101 install: all $(ROOTDYNLIB64)
102 #
103 lint: $(LINTOUT64)
104 #
105 adbm macros: adb .WAIT $(ADBSSCRIPTS)
106 #
107 adbin install: adbm macros .WAIT $(ROOTADB64)
108 #
109 #
110 #
111 pics/%.o: ../sparc/%.c
112 $(COMPILE.c) -o $@ $<
113 $(POST_PROCESS_O)
114 #
115 include $(SRC)/cmd/sgs/rtld/Makefile.targ
116 include ../../Makefile.sub.64
```

new/usr/src/lib/c_synonyms/amd64/Makefile

1

```
*****
1107 Thu Oct 11 01:49:38 2018
new/usr/src/lib/c_synonyms/amd64/Makefile
9884 cw(1) should use -fpic rather than -Kpic
*****
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20 #
21 #
22 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
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24 #
25 # ident "%Z%M% %I% %E% SMI"
26 #

26 ASFLAGS=      $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(amd64_AS_XARCH)
28 ASFLAGS=      -K pic -P -D__STDC__ -D_ASM $(amd64_AS_XARCH)

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

31 BUILD.SO=     $(LD) -o $@ -G -64 $(DYNFLAGS) $(PICS) $(LDLIBS)

33 install: all $(ROOTLIBS64)
```

new/usr/src/lib/c_synonyms/i386/Makefile

1

1040 Thu Oct 11 01:49:39 2018

new/usr/src/lib/c_synonyms/i386/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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21 #
22 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # ident "%Z%M% %I% %E% SMI"
26 #
```

```
26 ASFLAGS= $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(i386_AS_XARCH)
28 ASFLAGS= -K pic -P -D__STDC__ -D_ASM $(i386_AS_XARCH)
```

```
28 include ../Makefile.com
```

```
30 MAPFILES += mapfile-vers
```

```
32 install: all $(ROOTLIBS)
```

new/usr/src/lib/c_synonyms/sparc/Makefile

1

1015 Thu Oct 11 01:49:39 2018

new/usr/src/lib/c_synonyms/sparc/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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21 #
22 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
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24 #
25 # ident "%Z%M% %I% %E% SMI"
26 #

26 ASFLAGS= $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(sparc_AS_XARCH)
28 ASFLAGS= -K pic -P -D__STDC__ -D_ASM $(sparc_AS_XARCH)

28 include ../Makefile.com

30 install: all $(ROOTLIBS)
```

new/usr/src/lib/c_synonyms/sparcv9/Makefile

1

```
*****
1109 Thu Oct 11 01:49:40 2018
new/usr/src/lib/c_synonyms/sparcv9/Makefile
9884 cw(1) should use -fpic rather than -Kpic
*****
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20 #
21 #
22 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # ident "%Z%M% %I% %E% SMI"
26 #

26 ASFLAGS=      $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(sparcv9_AS_XARCH)
28 ASFLAGS=      -K pic -P -D__STDC__ -D_ASM $(sparcv9_AS_XARCH)

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

31 BUILD.SO=     $(LD) -o $@ -G -64 $(DYNFLAGS) $(PICS) $(LDLIBS)

33 install: all $(ROOTLIBS64)
```

new/usr/src/lib/efcode/engine/sparcv9/Makefile

1

1050 Thu Oct 11 01:49:40 2018

new/usr/src/lib/efcode/engine/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

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

27 include ../Makefile.com
28 include $(SRC)/lib/Makefile.lib.64

30 sparcv9_C_PICFLAGS = $(C_BIGPICFLAGS64)
32 sparcv9_C_PICFLAGS = -KPIC

32 install: all $(ROOTLIBS64)
```

new/usr/src/lib/fm/libmdesc/Makefile.com

1

```
*****
1918 Thu Oct 11 01:49:41 2018
new/usr/src/lib/fm/libmdesc/Makefile.com
9884 cw(1) should use -fpic rather than -Kpic
*****
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21 #
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23 #

25 LIBRARY = libmdesc.a
26 VERS = .1

28 LIBSRCS = \
29     mdesc_fini.c \
30     mdesc_findname.c \
31     mdesc_findnodeprop.c \
32     mdesc_getpropargs.c \
33     mdesc_getpropdata.c \
34     mdesc_getpropstr.c \
35     mdesc_getpropval.c \
36     mdesc_init_intern.c \
37     mdesc_nodccount.c \
38     mdesc_scandag.c \
39     mdesc_walkdag.c

41 OBJECTS = $(LIBSRCS:%.c=%.o)

43 include ../../../../Makefile.lib
44 include ../../../../Makefile.lib

46 SRCS = $(LIBSRCS:%.c=$(SRC)/common/mdesc/%.c)

48 LIBS = $(DYNLIB) $(LINTLIB)

50 SRCDIR =      ../../common

52 CPPFLAGS += -I../../common -I.
53 CFLAGS += $(CCVERBOSE) $(C_BIGPICFLAGS)
54 CFLAGS64 += $(CCVERBOSE) $(C_BIGPICFLAGS64)
53 CFLAGS += $(CCVERBOSE) -K PIC
54 CFLAGS64 += $(CCVERBOSE) -K PIC
55 LDLIBS += -lc

57 LINTFLAGS += -erroff=E_BAD_PTR_CAST_ALIGN -v
58 LINTFLAGS64 += -erroff=E_BAD_PTR_CAST_ALIGN -v
59 $(LINTLIB) := SRCS = $(SRCDIR)/$(LINTSRC)
```

new/usr/src/lib/fm/libmdesc/Makefile.com

2

```
60 $(LINTLIB) := LINTFLAGS = -nsvx
61 $(LINTLIB) := LINTFLAGS64 = -nsvx -m64

63 .KEEP_STATE:

65 all: $(LIBS)

67 lint: $(LINTLIB) lintcheck

69 pics%.o: $(SRC)/common/mdesc/%.c
70     $(COMPILE.c) -o $@ $<
71     $(POST_PROCESS_O)

73 %.ln: $(SRC)/common/mdesc/%.c
74     $(LINT.c) -o $@ $<

76 include ../../../../Makefile.targ
77 include ../../../../Makefile.targ
```

new/usr/src/lib/gss_mechs/mech_krb5/Makefile

1

```
*****
2475 Thu Oct 11 01:49:41 2018
new/usr/src/lib/gss_mechs/mech_krb5/Makefile
9884 cw(1) should use -fpic rather than -Kpic
*****
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21 #
22 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
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24 #
25 #
26 #
27 # This make file will build mech_krb5.so.1. This shared object
28 # contains all the functionality needed to support the Kerberos V5 GSS-API
29 # mechanism. No other Kerberos libraries are needed.
30 #
31 #
32 include ../../../../Makefile.master
33 #
34 SUBDIRS = $(MACH)
35 $(BUILD64)SUBDIRS += $(MACH64)
36 #
37 # include library definitions
38 include ../../Makefile.lib
39 #
40 GREP= find . \( -name SCCS -prune -o -name '.*[ch]' \) -print | sort | xargs gre
41 #
42 sparcv9_C_PICFLAGS = $(sparcv9_C_BIGPICFLAGS)
43 sparcv9_C_PICFLAGS = -K PIC
44 TEXT_DOMAIN = SUNW_OST_NETRPC
44 POFILE = mech_krb5.po
45 POFILES = generic.po
46 #
47 HDRS=
48 #
49 CHECKHDRS= $(HDRS:%.h=%.check)
50 #
51 $(ROOTDIRS)%: %
52 $(INS.file)
53 #
54 all := TARGET= all
55 clean := TARGET= clean
56 clobber := TARGET= clobber
57 install := TARGET= install
58 lint := TARGET= lint
59 #
60 .KEEP_STATE:
```

new/usr/src/lib/gss_mechs/mech_krb5/Makefile

2

```
62 all clean lint: $(SUBDIRS)
63 #
64 install: install_dir all .WAIT $(SUBDIRS)
65 #
66 # override ROOTLIBDIR and ROOTLINKS
67 ROOTLIBDIR= $(ROOT)/usr/lib/gss
68 #
69 install_dir: $(ROOTLIBDIR) $(BUILD64)
70 #
71 install_h:
72 #
73 clobber: $(SUBDIRS)
74 $(RM) $(POFILE) $(POFILES)
75 #
76 check: $(CHECKHDRS)
77 #
78 do_pkg:
79 cd pkg ; pwd ; $(MAKE) install
80 #
81 $(ROOTLIBDIR):
82 $(INS.dir)
83 #
84 #
85 # include library targets
86 # include ../../Makefile.targ
87 #
88 $(SUBDIRS): FRC
89 @cd $@; pwd; $(MAKE) $(TARGET)
90 #
91 FRC:
92 #
93 _msg: $(MSGDOMAIN) .WAIT $(POFILE)
94 $(RM) $(MSGDOMAIN)/$(POFILE)
95 $(CP) $(POFILE) $(MSGDOMAIN)
96 #
97 $(POFILE): $(DERIVED_FILES) .WAIT $(POFILES)
98 $(RM) $@
99 $(CAT) $(POFILES) > $@
100 #
101 generic.po: FRC
102 $(RM) messages.po
103 -$(XGETTEXT) $(XGETFLAGS) `$(GREP) -s -l gettext`
104 $(SED) "/^domain/d" messages.po > $@
105 $(RM) messages.po
106 #
107 $(MSGDOMAIN):
108 $(INS.dir)
```

new/usr/src/lib/libast/amd64/Makefile

1

1428 Thu Oct 11 01:49:42 2018

new/usr/src/lib/libast/amd64/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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25 #
26 #
27 # Platform-specific config
28 # Note that "HOSTTYPE" matches the value used by AT&T upstream.
29 ASTPLATFORMCPPFLAGS = '-DHOSTTYPE="sol$(RELEASE_MINOR).i386"'
30 #
31 # platform-specific sources
32 OBJECTS = \
33     amd64/src/lib/libast/conftab.o \
34     amd64/src/lib/libast/lctab.o
35 OBJDIRS = \
36     amd64/src/lib/libast
37 #
38 include ../Makefile.com
39 include ../../Makefile.lib.64
40 #
41 # Use big PIC since libast is too big for pic on 64bit
42 # Use -KPIC since libast is too big for -Kpic on 64bit
43 # (and on 32bit it is close to the barrier)
44 amd64_C_PICFLAGS = $(C_BIGPICFLAGS)
45 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

new/usr/src/lib/libast/i386/Makefile

1

1403 Thu Oct 11 01:49:42 2018

new/usr/src/lib/libast/i386/Makefile

9884 cw(1) should use -fpic rather than -Kpic

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21 #
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25 #
26 #
27 # Platform-specific config
28 # Note that "HOSTTYPE" matches the value used by AT&T upstream.
29 ASTPLATFORMCPPFLAGS = '-DHOSTTYPE="sol$(RELEASE_MINOR).i386"'
30 #
31 # platform-specific sources
32 OBJECTS = \
33     i386/src/lib/libast/conftab.o \
34     i386/src/lib/libast/lctab.o
35 OBJDIRS = \
36     i386/src/lib/libast
37 #
38 include ../Makefile.com
39 #
40 # Use big PIC since libast is too big for pic on 64bit
40 # Use -KPIC since libast is too big for -Kpic on 64bit
41 # (and on 32bit it is close to the barrier)
42 i386_C_PICFLAGS = $(C_BIGPICFLAGS)
43 #
44 install: all $(ROOTLIBS) $(ROOTLINKS) $(ROOTLINT)
```

new/usr/src/lib/libast/sparc/Makefile

1

1407 Thu Oct 11 01:49:42 2018

new/usr/src/lib/libast/sparc/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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25 #
26 #
27 #
28 # Platform-specific config
29 # Note that "HOSTTYPE" matches the value used by AT&T upstream.
30 ASTPLATFORMCPPFLAGS = '-DHOSTTYPE="sol$(RELEASE_MINOR).sun4"'
31 #
32 # platform-specific sources
33 OBJECTS = \
34     sparc/src/lib/libast/conftab.o \
35     sparc/src/lib/libast/lctab.o
36 OBJDIRS = \
37     sparc/src/lib/libast
38 #
39 include ../Makefile.com
40 #
41 # Use big PIC since libast is too big for pic on 64bit
42 # Use -KPIC since libast is too big for -Kpic on 64bit
43 # (and on 32bit it is close to the barrier)
44 sparc_C_PICFLAGS = $(C_BIGPICFLAGS)
45 install: all $(ROOTLIBS) $(ROOTLINKS) $(ROOTLINT)
```

new/usr/src/lib/libast/sparcv9/Makefile

1

1438 Thu Oct 11 01:49:43 2018

new/usr/src/lib/libast/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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21 #
22 #
23 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
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25 #
26 #
27 #
28 # Platform-specific config
29 # Note that "HOSTTYPE" matches the value used by AT&T upstream.
30 ASTPLATFORMCPPFLAGS = '-DHOSTTYPE="sol$(RELEASE_MINOR).sun4"'
31 #
32 # platform-specific sources
33 OBJECTS = \
34     sparcv9/src/lib/libast/conftab.o \
35     sparcv9/src/lib/libast/lctab.o
36 OBJDIRS = \
37     sparcv9/src/lib/libast
38 #
39 include ../Makefile.com
40 include ../../Makefile.lib.64
41 #
42 # Use big PIC since libast is too big for pic on 64bit
43 # Use -KPIC since libast is too big for -Kpic on 64bit
44 # (and on 32bit it is close to the barrier)
45 sparcv9_C_PICFLAGS = $(C_BIGPICFLAGS)
46 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

```

*****
13676 Thu Oct 11 01:49:43 2018
new/usr/src/lib/libbc/sparc/Makefile
9884 cw(1) should use -fpic rather than -Kpic
*****
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20 #
21 #
22 # Copyright (c) 1990, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 #
25 #
26 # This builds all objects needed for libbc.
27 #
28 #
29 LIBRARY= libc.a
30 # Default rules in ../../Makefile.targ not used.
31 VERS= bogus
32 DYNLIB4X= libc.so.1.9
33 DYNLIBS5= libc.so.2.9
34 #DYNLIBS5 is also defined in ../Makefile
35 #
36 M4= m4
37 ECHO= echo
38 #
39 # objects are grouped by source directory.
40 #
41 COMPATCOM= \
42 gtty.o lockf.o pause.o stty.o tell.o ulimit.o \
43 utime.o
44 #
45 COMPAT4.1=\
46 ftime.o nice.o rand.o vlimit.o vtimes.o getpw.o times.o
47 #
48 COMPATSYS5=\
49 nice.o rand.o getpw.o times.o
50 #
51 CRTSPARC =\
52 _ftou.o misalign.o ptr_call.o \
53 start_float.o \
54 alloc_pbuf.o mon.o muldiv.o
55 #
56 GENCOM=\
57 _crypt.o _nlist.o _perror.o _psignal.o a64l.o abs.o alarm.o\
58 asctime.o atof.o atoi.o atol.o bcmp.o bsearch.o\
59 clock.o closedir.o crypt.o ctime.o ctype.o\
60 drand48.o dysize.o errlst.o execvp.o exit.o exportent.o ecvt.o\
61 fabs.o fmod.o frexp.o\

```

```

62 fstab.o ftok.o ftw.o getauid.o getauditflags.o \
63 getcwd.o getenv.o getgraent.o getlogin.o \
64 getopt.o getsubopt.o getpwaent.o getttyent.o\
65 gettynam.o getusershell.o grpauth.o hsearch.o\
66 ieee_globals.o index.o isatty.o \
67 issecure.o jcsetpgrp.o\
68 l64a.o labeltostring.o ldexp.o lfind.o lsearch.o\
69 madvise.o mallopt.o \
70 euc.multibyte.o iso.multibyte.o xccs.multibyte.o \
71 mblib.o mbstowcs.o mbtowc.o wcstombs.o wctomb.o \
72 memalign.o memccpy.o memchr.o memcmp.o\
73 mkstemp.o mktemp.o mlock.o mlockall.o\
74 mntent.o modf.o msync.o munlock.o munlockall.o\
75 nl_cxtime.o nl_strncmp.o ndbm.o on_exit.o\
76 opendir.o optind.o perror.o plock.o \
77 posix_sig.o posix_tty.o popen.o psignal.o putenv.o \
78 pwdauth.o pwnm.o qsort.o\
79 random.o readdir.o realpath.o regex.o rindex.o scandir.o seekdir.o\
80 setlocale.o setregid.o setreuid.o setrgid.o setruid.o sigfpe.o siglist.o\
81 ssignal.o strchr.o strcmp.o \
82 strftime.o strncat.o \
83 strprbrk.o strptime.o strrchr.o strspn.o strstr.o \
84 strtod.o strtok.o strtol.o swab.o syslog.o\
85 telldir.o tfind.o time.o tsearch.o \
86 ualarm.o usleep.o valloc.o string_decim.o \
87 file_decim.o func_decim.o econvert.o seconvert.o gconvert.o \
88 decimal_bin.o float_decim.o double_decim.o \
89 pack_float.o _unpack_dble.o unpack_float.o \
90 _base_S.o _base_il.o _base_sup.o _big_power.o _small_power.o \
91 _sprintf_sup.o _times_power.o qeconvert.o \
92 _Q_neg.o _Q_add.o _Q_sub.o _Q_mul.o _Q_div.o _Q_cmp.o \
93 _Q_cmpe.o _Q_stog.o _Q_dtoq.o _Q_itoq.o _Q_utoq.o _Q_qtos.o _Q_qtod.o \
94 _Q_qtoi.o _Q_qtou.o _Q_sqrt.o _Qfaddsub.o _Qfcompare.o _Qfdiv.o \
95 _Qfmul.o _Qfpack.o _Qfunpack.o _Qfutility.o _Qfcc.o _Q_get_rp_rd.o \
96 calloc.o malloc.o \
97 getpass.o localtime.o ttyslot.o
98 #
99 GENCOMSPARC=\
100 alloca.o ffs.o insque.o remque.o isinf.o base_conv.o
101 #
102 GEN4.2=\
103 nlist.o timezone.o sleep.o system.o
104 #
105 GENSYS5=\
106 assert.o nlist.o sgetl.o sleep.o sputl.o system.o \
107 sighold.o
108 #
109 STDIOCOM=\
110 clrerr.o ctermid.o cuserid.o doprnt.o doscan.o fdopen.o \
111 feof.o ferror.o fgetc.o fgets.o fileno.o findiop.o \
112 fputc.o fputs.o fread.o fseek.o ftell.o \
113 fwrite.o getc.o getch.o gets.o getw.o iob.o \
114 putc.o putchar.o puts.o putw.o remove.o \
115 rew.o scanf.o setbuffer.o setvbuf.o tmpnam.o tmpnam.o \
116 tmpfile.o ungetc.o
117 #
118 STDIO4.2=\
119 filbuf.o fopen.o fprintf.o printf.o flsbuf.o setbuf.o \
120 sprintf.o vfprintf.o vprintf.o vsprintf.o
121 #
122 STDIOSYS5=\
123 filbuf.o fopen.o fprintf.o flsbuf.o printf.o setbuf.o \
124 sprintf.o vfprintf.o vprintf.o vsprintf.o
125 #
126 SYSCOM=\
127 _access.o acct.o adjtime.o close.o _creat.o dup.o dup2.o \

```

new/usr/src/lib/libbc/sparc/Makefile

```

128 fchdir.o fchroot.o \
129 fdlist.o flock.o fpathconf.o fsync.o ftruncate.o getdents.o \
130 getdtablesize.o getgid.o getitimer.o getpid.o gettimeofday.o \
131 getuid.o ioctl.o kill.o lseek.o mincore.o mprotect.o munmap.o \
132 _open.o profil.o setitimer.o \
133 rlimit.o _statfs.o sync.o umask.o uname.o \
134 execl.o execl.o execv.o mkfifo.o msgsys.o \
135 pathconf.o semsys.o shmsys.o unmount.o wait.o setuid.o \
136 setgid.o _stat.o seteuid.o setegid.o signalmap.o syscall.o \
137 maperror.o sigsetjmp.o accept.o bind.o connect.o getpeername.o \
138 getsockname.o getsockopt.o listen.o recv.o send.o \
139 setsockopt.o shutdown.o socket.o socketpair.o setsid.o sigaction.o

141 SYSCOMSPARC=\
142 _exit.o brk.o cerror.o errno.o \
143 getegid.o geteuid.o getppid.o mmap.o pipe.o putmsg.o \
144 sbrk.o _syscall.o getmsg.o _read.o _write.o \
145 _readv.o _writev.o sendsig.o

147 SYS4.2=\
148 access.o chdir.o chmod.o chown.o chroot.o \
149 creat.o execve.o getpgrp.o link.o mkdir.o \
150 mknod.o open.o readlink.o rename.o rmdir.o \
151 setpgrp.o stat.o symlink.o truncate.o unlink.o \
152 statfs.o fcntl.o read.o write.o readv.o \
153 writev.o setjmp.o mount.o

155 SYS4.2SPARC=\
156 getgroups.o setgroups.o

158 SYSSYS5=\
159 access.o chdir.o chmod.o chown.o chroot.o \
160 creat.o execve.o getgroups.o getpgrp.o link.o \
161 mkdir.o mknod.o open.o readlink.o rename.o \
162 rmdir.o setgroups.o setpgrp.o stat.o statfs.o \
163 stime.o symlink.o truncate.o unlink.o fcntl.o \
164 read.o write.o readv.o writev.o setjmp.o \
165 mount.o

167 #SSYSSPARC=\
168 #_getpgrp.o _kill.o _lseek.o _mknod.o _mount.o _setpgrp.o \
169 #umount.o

171 INET=\
172 inet_addr.o inet_lnaof.o inet_makeaddr.o inet_netof.o \
173 inet_network.o inet_ntoa.o

175 NET=\
176 ether_addr.o bindresvport.o getrport.o rcmd.o \
177 rexec.o ruserpass.o authunix.o

179 NETSPARC= htonl.o htons.o ntohl.o ntohs.o

181 YP= yp_bind.o

183 YP= yp_bind.o
184 PSEUDO_SRCS= adjtime.s fchdir.s \
185 fchroot.s \
186 fpathconf.s getitimer.s getpid.s \
187 mincore.s mprotect.s munmap.s \
188 profil.s setitimer.s \
189 sync.s sysconf.s umask.s ustat.s \
190 acct.s stime.s

192 #
193 # libbc build rules

```

3

new/usr/src/lib/libbc/sparc/Makefile

```

194 pics/%.o s5pics/%.o : ../libc/compat/common/%.c
195 $(COMPILE.c) -o $@ $<
196 $(POST_PROCESS_O)

198 pics/%.o : ../libc/compat/4.1/%.c
199 $(COMPILE.c) -o $@ $<
200 $(POST_PROCESS_O)

202 s5pics/%.o : ../libc/compat/sys5/%.c
203 $(COMPILE.c) -o $@ $<
204 $(POST_PROCESS_O)

206 pics/%.o s5pics/%.o : ../libc/crt/sparc/%.s
207 $(BUILD.s)
208 $(POST_PROCESS_O)

210 pics/%.o s5pics/%.o : ../libc/crt/sparc/%.c
211 $(COMPILE.c) -o $@ $<
212 $(POST_PROCESS_O)

214 pics/%.o s5pics/%.o : ../csu/common/%.c
215 $(COMPILE.c) -o $@ $<
216 $(POST_PROCESS_O)

218 pics/%.o s5pics/%.o : ../libc/gen/common/%.S
219 $(BUILD.s)
220 $(POST_PROCESS_O)

222 pics/%.o s5pics/%.o : ../libc/gen/common/%.c
223 $(COMPILE.c) -o $@ $<
224 $(POST_PROCESS_O)

226 pics/%.o s5pics/%.o : ../libc/gen/common/sparc/%.s
227 $(BUILD.s)
228 $(POST_PROCESS_O)

230 pics/%.o s5pics/%.o : ../libc/gen/common/sparc/%.c
231 $(COMPILE.c) -o $@ $<
232 $(POST_PROCESS_O)

234 pics/%.o : ../libc/gen/4.2/%.c
235 $(COMPILE.c) -o $@ $<
236 $(POST_PROCESS_O)

238 s5pics/%.o : ../libc/gen/sys5/%.c
239 $(COMPILE.c) -o $@ $<
240 $(POST_PROCESS_O)

242 pics/%.o s5pics/%.o : ../libc/inet/%.c
243 $(COMPILE.c) -o $@ $<
244 $(POST_PROCESS_O)

246 pics/%.o s5pics/%.o : ../libc/net/%.c
247 $(COMPILE.c) -o $@ $<
248 $(POST_PROCESS_O)

250 pics/%.o s5pics/%.o : ../libc/net/sparc/%.c
251 $(COMPILE.c) -o $@ $<
252 $(POST_PROCESS_O)

254 pics/%.o s5pics/%.o : ../libc/stdio/common/%.c
255 $(COMPILE.c) -o $@ $<
256 $(POST_PROCESS_O)

258 pics/%.o : ../libc/stdio/4.2/%.c
259 $(COMPILE.c) -o $@ $<

```

4

new/usr/src/lib/libbc/sparc/Makefile

5

```

260      $(POST_PROCESS_O)

262 s5pics/%.o : ../libc/stdio/sys5/%.c
263      $(COMPILE.c) -o $@ $<
264      $(POST_PROCESS_O)

266 pics/%.o s5pics/%.o : ../libc/sys/common/%.s
267      $(BUILD.s)
268      $(POST_PROCESS_O)

270 pics/%.o s5pics/%.o : ../libc/sys/common/%.c
271      $(COMPILE.c) -o $@ $<
272      $(POST_PROCESS_O)

274 pics/%.o s5pics/%.o : ../libc/sys/common/sparc/%.s
275      $(BUILD.s)
276      $(POST_PROCESS_O)

278 pics/%.o : ../libc/sys/4.2/%.c
279      $(COMPILE.c) -o $@ $<
280      $(POST_PROCESS_O)

282 pics/%.o : ../libc/sys/4.2/sparc/%.s
283      $(BUILD.s)
284      $(POST_PROCESS_O)

286 s5pics/%.o : ../libc/sys/sys5/%.c
287      $(COMPILE.c) -o $@ $<
288      $(POST_PROCESS_O)

290 s5pics/%.o : ../libc/sys/sys5/sparc/%.s
291      $(BUILD.s)
292      $(POST_PROCESS_O)

294 s5pics/%.o : ../libc/stdio/sys5/%.c
295      $(COMPILE.c) -o $@ $<
296      $(POST_PROCESS_O)

298 pics/%.o s5pics/%.o : ../libc/rpc/%.c
299      $(COMPILE.c) -o $@ $<
300      $(POST_PROCESS_O)

302 pics/%.o s5pics/%.o : ../libc/yp/%.c
303      $(COMPILE.c) -o $@ $<
304      $(POST_PROCESS_O)

307 # include common library definitions
308 include ../../Makefile.lib

310 # There should be a mapfile here
311 MAPFILES =

313 CSTD=    $(CSTD_GNU89)

315 #
316 # The BCP include files depend on old preprocessor semantics.
317 #
318 CCMODE = -Xt

320 # the bcp libraries go in /usr/4lib. override ROOTLIBDIR from ../../Makefile.lib
321 # and save it so we can find the libraries with which to link
322 ROOTLIBDIR=    $(ROOT)/usr/4lib

324 CPPFLAGS= -Dsparc \
325      -I. -Iinc -I../inc/include -I../inc/include/sys $(CPPFLAGS.master)

```

new/usr/src/lib/libbc/sparc/Makefile

6

```

326 ASFLAGS= -P -D_STDC__ -DLOCORE -D_SYS_SYS_S -D_ASM $(CPPFLAGS)
327 LDLIBS= -t -R/usr/ucplib -L$(ROOT)/usr/ucplib $(LDLIBS.lib) \
328      -lubc -lc -lnsl -lsocket

330 CERRWARN += _gcc=-Wno-implicit-function-declaration
331 CERRWARN += _gcc=-Wno-char-subscripts
332 CERRWARN += _gcc=-Wno-extra
333 CERRWARN += _gcc=-Wno-parentheses
334 CERRWARN += _gcc=-Wno-uninitialized
335 CERRWARN += _gcc=-Wno-unused
336 CERRWARN += _gcc=-Wno-switch
337 CERRWARN += _gcc=-Wno-address

339 # SONAME is used by DYNFLAGS
340 $(DYNLIB4X) := SONAME = $(DYNLIB4X)
341 $(DYNLIBS5) := SONAME = $(DYNLIBS5)

343 pics/%.o:= ASFLAGS += $(AS_PICFLAGS) -DPIC
344 pics/%.o:= CPPFLAGS += $(C_PICFLAGS) -DPIC
345 s5pics/%.o:= ASFLAGS += $(AS_PICFLAGS) -DPIC
343 pics/%.o:= ASFLAGS += -K pic -DPIC
344 pics/%.o:= CPPFLAGS += -K pic -DPIC
345 s5pics/%.o:= ASFLAGS += -K pic -DPIC
346 DYNFLAGS += $(ZINTERPOSE)

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

350 # libbc method of building an archive
351 BUILD.AR=    $(RM) $@ ; \
352      $(AR) q $@ $(OBJECTS:%=$(DIR)/%)

354 # the TXTS macro is used for NSE bootstrapping.
355 TXTS=    inc/SYS.h inc/PIC.h inc/machine/asm_linkage.h

357 LIBS = $(DYNLIB4X) $(DYNLIBS5)

359 OBJECTS= $(COMPATCOM) $(COMPAT4.1) $(CRTSPARC) $(GENCOM) \
360 $(GENCOMSPARC) $(GEN4.2) $(STDIOCOM) $(STDIOSYS5) \
361 $(INET) $(NET) $(NETSPARC) $(YP) \
362 $(SYSCOM) $(SYSCOMSPARC) $(SYS4.2)

364 #
365 # Since this library is strictly for binary compability with ancient
366 # applications, we deactivate CTF to avoid kicking up dust.
367 #
368 CTFCONVERT_POST = :
369 CTFMERGE_LIB = :

371 S5OBJECTS= $(COMPATCOM) $(COMPATSYS5) $(CRTSPARC) $(GENCOM) \
372 $(GENCOMSPARC) $(GENSYS5) $(STDIOCOM) $(STDIOSYS5) \
373 $(SYSCOM) $(SYSCOMSPARC) $(SYSSYS5) $(SSYS5SPARC) \
374 $(INET) $(NET) $(NETSPARC) $(YP)

376 S5PICOBJS=    $(S5OBJECTS:%=s5pics%)

378 CLEANFILES= ../libc/yp/ypupdate_prot.c ../inc/include/rpcsvc/ypupdate_prot.h \
379      ../libc/compat/sys5/epoch.h \
380      $(S5PICOBJS)
381 CLOBBERFILES= ../libc/compat/sys5/mkePOCH

383 # conditional assignments
384 s5pics/%.o:= CPPFLAGS = -Dsparc -DS5EMUL $(C_PICFLAGS) -DPIC -I. -Iinc \
384 s5pics/%.o:= CPPFLAGS = -Dsparc -DS5EMUL -K pic -DPIC -I. -Iinc \
385      -I../inc/5include -I../inc/include -I../inc/include/sys \
386      $(CPPFLAGS.master)

```

new/usr/src/lib/libbc/sparc/Makefile

7

```
388 s5pics/%.o := CFLAGS += -xregs=no%appl
389 pics/%.o := CFLAGS += -xregs=no%appl

391 $(DYNLIB4X):= DIR = pics
392 $(DYNLIBS5):= DIR = s5pics

394 .KEEP_STATE:

396 # Declare that all .o's can be made in parallel.
397 .PARALLEL: $(PICS) $(S5PICOBJS)

399 all: $(TXTS) $(LIBS)

401 $(DYNLIB4X): pics .WAIT $(PICS)
402 $(CC) -o $@ -G $(DYNFLAGS) $(PICS) $(LDLIBS)
403 $(POST_PROCESS_SO)

405 $(DYNLIBS5): s5pics .WAIT $(S5PICOBJS)
406 $(CC) -o $@ -G $(DYNFLAGS) $(S5PICOBJS) $(LDLIBS)
407 $(POST_PROCESS_SO)

409 # include common library targets
410 include ../../Makefile.targ

412 s5pics:
413 -@mkdir -p $@

415 # special cases
416 PSEUDO_POBJS= $(PSEUDO_SRCS:%.s=pics/%.o)
417 PSEUDO_PS5OBJJS= $(PSEUDO_SRCS:%.s=s5pics/%.o)

419 $(PSEUDO_POBJS) $(PSEUDO_PS5OBJJS):
420 @ (echo '#include "SYS.h"'; \
421 echo ' SYSCALL($@F:.o)'; \
422 echo ' RET'; \
423 echo ' SET_SIZE($@F:.o)') > tmp.$@F:.o.s
unchanged portion omitted
```

new/usr/src/lib/libc/capabilities/sun4u-opl/Makefile.com

1

1241 Thu Oct 11 01:49:44 2018

new/usr/src/lib/libc/capabilities/sun4u-opl/Makefile.com

9884 cw(1) should use -fpic rather than -Kpic

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24 #
25 #
26 TRG_PLATFORM = sun4u-opl
27 ALT_PLATFORM = sun4u-us3
28 GEN_PLATFORM = sun4u
29 #
30 include ../../Makefile.com
31 #
32 OBJECTS = memcpy.o memset.o memcmp.o
33 #
34 include $(SRC)/lib/Makefile.lib
35 #
36 IFLAGS = -I$(SRC)/uts/$(GEN_PLATFORM) \
37 -I$(ROOT)/usr/platform/$(GEN_PLATFORM)/include
38 #
39 AS_CPPFLAGS += -D__STDC__ -D_ASM -DPIC -D_REENTRANT -D$(MACH) $(IFLAGS)
40 ASFLAGS = -P $(AS_PICFLAGS)
41 ASFLAGS = -P -K pic
```

new/usr/src/lib/libc/capabilities/sun4u-us3-hwcap1/Makefile.com

1

1295 Thu Oct 11 01:49:44 2018

new/usr/src/lib/libc/capabilities/sun4u-us3-hwcap1/Makefile.com

9884 cw(1) should use -fpic rather than -Kpic

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23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 TRG_PLATFORM = sun4u-us3
27 GEN_PLATFORM = sun4u
28 #
29 include      ../../Makefile.com
30 #
31 OBJECTS =    memcpy.o memset.o memcmp.o
32 #
33 include      $(SRC)/lib/Makefile.lib
34 #
35 IFLAGS =    -I$(SRC)/uts/$(GEN_PLATFORM) \
36             -I$(ROOT)/usr/platform/$(GEN_PLATFORM)/include
37 #
38 MAPFILE-CAP += ../../$(TRG_PLATFORM)/common/mapfile-cap
39 #
40 AS_CPPFLAGS += -D__STDC__ -D_ASM -DPIC -D_REENTRANT -D$(MACH) $(IFLAGS) \
41               -DBSTORE_SIZE=256
42 ASFLAGS =    -P $(AS_PICFLAGS)
43 ASFLAGS =    -P -K pic
```

new/usr/src/lib/libc/capabilities/sun4u-us3-hwcap2/Makefile.com

1

1312 Thu Oct 11 01:49:45 2018

new/usr/src/lib/libc/capabilities/sun4u-us3-hwcap2/Makefile.com

9884 cw(1) should use -fpic rather than -Kpic

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21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 TRG_PLATFORM = sun4u-us3
27 GEN_PLATFORM = sun4u
28 #
29 include ../../Makefile.com
30 #
31 OBJECTS = memcpy.o memset.o memcmp.o
32 #
33 include $(SRC)/lib/Makefile.lib
34 #
35 IFLAGS = -I$(SRC)/uts/$(GEN_PLATFORM) \
36         -I$(ROOT)/usr/platform/$(GEN_PLATFORM)/include
37 #
38 MAPFILE-CAP += ../../$(TRG_PLATFORM)/common/mapfile-cap
39 #
40 AS_CPPFLAGS += -D__STDC__ -D_ASM -DPIC -D_REENTRANT -D$(MACH) $(IFLAGS) \
41              -DBSTORE_SIZE=65536 -DPANTHER_ONLY
42 ASFLAGS = -P $(AS_PICFLAGS)
43 #
44 ASFLAGS = -P -K pic
```

1599 Thu Oct 11 01:49:45 2018

new/usr/src/lib/libc/capabilities/sun4u/Makefile.com

9884 cw(1) should use -fpic rather than -Kpic

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21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 TRG_PLATFORM = sun4u
27 GEN_PLATFORM = sun4u
28 #
29 include      ../../Makefile.com
30 #
31 OBJECTS =    memcpy.o memset.o memcmp.o
32 #
33 include      $(SRC)/lib/Makefile.lib
34 #
35 IFLAGS =    -I$(SRC)/uts/$(GEN_PLATFORM) \
36             -I$(ROOT)/usr/platform/$(GEN_PLATFORM)/include
37 #
38 AS_CPPFLAGS += -D__STDC__ -D_ASM -DPIC -D_REENTRANT -D$(MACH) $(IFLAGS)
39 ASFLAGS =    -P $(AS_PICFLAGS)
40 ASFLAGS =    -P -K pic
41 #
42 # memcpy.s provides __align_cpy_1 as an alias for memcpy. However, this isn't
43 # a WEAK symbol, and hence ld(1)'s ability to cull duplicate local symbols with
44 # the same address is compromised. The result is .SUNW_dynsymsort: duplicate
45 # symbol errors from check_rtime. Use elfedit to assign a weak binding.
46 POST_PROCESS_OBJCAP_O = elfedit -e "sym:st_bind __align_cpy_1 STB_WEAK" $@

```

new/usr/src/lib/libc/capabilities/sun4v-hwcap1/Makefile.com

1

1600 Thu Oct 11 01:49:46 2018

new/usr/src/lib/libc/capabilities/sun4v-hwcap1/Makefile.com

9884 cw(1) should use -fpic rather than -Kpic

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21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 TRG_PLATFORM = sun4v
27 GEN_PLATFORM = sun4v
28 #
29 include      ../../Makefile.com
30 #
31 OBJECTS =    memcpy.o memset.o smt_pause.o
32 #
33 include      $(SRC)/lib/Makefile.lib
34 #
35 IFLAGS =     -I$(SRC)/uts/$(GEN_PLATFORM) \
36             -I$(ROOT)/usr/include/v9
37 #
38 #
39 AS_CPPFLAGS += -D__STDC__ -D_ASM -DPIC -D_REENTRANT -D$(MACH) $(IFLAGS) \
40              -DNIAGARA_IMPL
41 ASFLAGS =    -P $(AS_PICFLAGS)
42 ASFLAGS =    -P -K pic
43 # memcpy.s provides __align_cpy_1 as an alias for memcpy. However, this isn't
44 # a WEAK symbol, and hence ld(1)'s ability to cull duplicate local symbols with
45 # the same address is compromised. The result is .SUNW_dynsymsort: duplicate
46 # symbol errors from check_rtime. Use elfedit to assign a weak binding.
47 #
48 POST_PROCESS_OBJCAP_O = elfedit -e "sym:st_bind __align_cpy_1 STB_WEAK" $@
```

new/usr/src/lib/libc/capabilities/sun4v-hwcap2/Makefile.com

1

1632 Thu Oct 11 01:49:46 2018

new/usr/src/lib/libc/capabilities/sun4v-hwcap2/Makefile.com

9884 cw(1) should use -fpic rather than -Kpic

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24 #
25 #
26 TRG_PLATFORM = sun4v
27 GEN_PLATFORM = sun4v
28 #
29 include      ../../Makefile.com
30 #
31 OBJECTS =    memcpy.o smt_pause.o
32 #
33 include      $(SRC)/lib/Makefile.lib
34 #
35 IFLAGS =     -I$(SRC)/uts/$(GEN_PLATFORM) \
36              -I$(ROOT)/usr/platform/sun4v/include \
37              -I$(ROOT)/usr/include/v9
38 #
39 AS_CPPFLAGS += -D__STDC__ -D_ASM -DPIC -D_REENTRANT -D$(MACH) $(IFLAGS) \
40               -DNIAGARA2_IMPL
41 ASFLAGS =     -P $(AS_PICFLAGS)
42 ASFLAGS =     -P -K pic
43 # memcpy.s provides __align_cpy_1 as an alias for memcpy. However, this isn't
44 # a WEAK symbol, and hence ld(1)'s ability to cull duplicate local symbols with
45 # the same address is compromised. The result is .SUNW_dynsymsort: duplicate
46 # symbol errors from check_rtime. Use elfedit to assign a weak binding.
47 #
48 POST_PROCESS_OBJCAP_O = elfedit -e "sym:st_bind __align_cpy_1 STB_WEAK" $@
```

```

*****
26715 Thu Oct 11 01:49:47 2018
new/usr/src/lib/libc/sparc/Makefile.com
9884 cw(1) should use -fpic rather than -Kpic
*****
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26 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
27 # Copyright 2018 Nexenta Systems, Inc.
28 #
29 #
30 LIBCDIR=      $(SRC)/lib/libc
31 LIB_PIC=      libc_pic.a
32 VERS=        .1
33 CPP=         /usr/lib/cpp
34 TARGET_ARCH= sparc
35 #
36 # objects are grouped by source directory
37 #
38 # Symbol capabilities objects.
39 EXTPICS=
40 $(LIBCDIR)/capabilities/sun4u/sparc/pics/symcap.o \
41 $(LIBCDIR)/capabilities/sun4u-opl/sparc/pics/symcap.o \
42 $(LIBCDIR)/capabilities/sun4u-us3-hwcap1/sparc/pics/symcap.o \
43 $(LIBCDIR)/capabilities/sun4u-us3-hwcap2/sparc/pics/symcap.o \
44 $(LIBCDIR)/capabilities/sun4v-hwcap1/sparc/pics/symcap.o \
45 $(LIBCDIR)/capabilities/sun4v-hwcap2/sparc/pics/symcap.o
46 #
47 # local objects
48 STRETS=
49 stret1.o
50 stret2.o
51 stret4.o
52 #
53 CRTOBSJ=
54 _ftou.o
55 cerror.o
56 cerror64.o
57 hwmuldiv.o
58 #
59 DYNOBJS=
60 _rtbootld.o

```

```

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

```

```

128      memccpy.o      \
129      qsort.o        \
130      strtoul.o     \
131      strtoll.o     \
132      strtoull.o    \
133
135 DTRACEOBS=      \
136      dtrace_data.o \
137
138 SECFLAGSOBS=    \
139      secflags.o    \
140
141 GENOBS=         \
142      _getsp.o      \
143      _xregs_clrptr.o \
144      abs.o         \
145      alloca.o      \
146      arc4random.o  \
147      arc4random_uniform.o \
148      ascii_strcasecmp.o \
149      byteorder.o  \
150      cuexit.o      \
151      ecvt.o        \
152      endian.o      \
153      errlst.o      \
154      gettxt.o      \
155      ladd.o         \
156      lmul.o        \
157      lock.o        \
158      lshifl.o      \
159      lsign.o       \
160      lsub.o        \
161      makectxt.o   \
162      memchr.o      \
163      memcmp.o      \
164      new_list.o    \
165      setjmp.o      \
166      siginfolst.o \
167      siglongjmp.o \
168      smt_pause.o  \
169      sparc_data.o \
170      strchr.o      \
171      strcmp.o      \
172      strlcpy.o     \
173      strncmp.o    \
174      strncpy.o    \
175      strnlen.o    \
176      swaptxt.o    \
177      sync_instruction_memory.o \
178
179 # sysobjs that contain large-file interfaces
180 COMSYSOBS64=    \
181      fstatvfs64.o \
182      getdents64.o \
183      getrlimit64.o \
184      lseek64.o    \
185      mmap64.o     \
186      pread64.o    \
187      preadv64.o   \
188      pwrite64.o   \
189      pwritev64.o  \
190      setrlimit64.o \
191      statvfs64.o  \

```

```

193 SYSOBS64=

```

```

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

```

```

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

```

```

326      writev.o              \|
327      yield.o                \|
329  SYSOBSJS=                 \|
330      __clock_gettime.o     \|
331      __getcontext.o        \|
332      __lwp_mutex_unlock.o  \|
333      __stack_grow.o        \|
334      __uadmin.o            \|
335      door.o                 \|
336      forkx.o                \|
337      forkallx.o             \|
338      gettimeofday.o        \|
339      ptrace.o                \|
340      syscall.o              \|
341      tls_get_addr.o         \|
342      uadmin.o               \|
343      umount.o               \|
344      uname.o                \|
345      vforkx.o               \|
347  # objects under $(LIBCDIR)/port which contain transitional large file interfaces
348  PORTGEN64=                 \|
349      _xftw64.o              \|
350      attropen64.o           \|
351      fts64.o                 \|
352      ftw64.o                 \|
353      mkstemp64.o            \|
354      nftw64.o                \|
355      tell64.o                \|
356      truncate64.o           \|
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 atexit.o \
414 atfork.o \
415 atof.o \
416 atoi.o \
417 atol.o \
418 atoll.o \
419 attrat.o \
420 attropen.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 freezer.o \
461 ftime.o \
462 ftok.o \
463 fts.o \
464 ftw.o \
465 gcvt.o \
466 get_nprocs.o \
467 getauxv.o \
468 getcwd.o \
469 getdate_err.o \
470 getdtblsize.o \
471 getentropy.o \
472 getenv.o \
473 getexecname.o \
474 getgrnam.o \
475 getgrnam_r.o \
476 gethostid.o \
477 gethostname.o \
478 gethz.o \
479 getisax.o \
480 getloadavg.o \
481 getlogin.o \
482 getmntent.o \
483 getnetgrent.o \
484 getopt.o \
485 getopt_long.o \
486 getpagesize.o \
487 getpw.o \
488 getpwnam.o \
489 getpwnam_r.o \
490 getrusage.o \
491 getspent.o \
492 getspent_r.o \
493 getsubopt.o \
494 gettxt.o \
495 getusershell.o \
496 getut.o \
497 getutx.o \
498 getvfsent.o \
499 getwd.o \
500 getwidth.o \
501 getxby_door.o \
502 gtxt.o \
503 hsearch.o \
504 iconv.o \
505 imaxabs.o \
506 imaxdiv.o \
507 index.o \
508 initgroups.o \
509 insque.o \
510 isaexec.o \
511 isastream.o \
512 isatty.o \
513 killpg.o \
514 klpdlib.o \
515 l64a.o \
516 lckpwn.o \
517 lconstants.o \
518 ldivide.o \
519 lexpl0.o \
520 lfind.o \
521 lfnt.o \
522 lfnt_log.o \
523 llabs.o \

```

```

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

```

```

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

```

```

656      waitpid.o      \
657      walkstack.o   \
658      wdata.o        \
659      xgetwidth.o   \
660      xpg4.o         \
661      xpg6.o         \

663 PORTINET=        \
664      inet_lnaof.o   \
665      inet_makeaddr.o \
666      inet_network.o \
667      inet_ntoa.o    \
668      inet_ntop.o    \
669      inet_pton.o    \

671 PORTPRINT_W=     \
672      doprnt_w.o     \

674 PORTPRINT=       \
675      asprintf.o     \
676      doprnt.o       \
677      fprintf.o      \
678      printf.o       \
679      snprintf.o     \
680      sprintf.o      \
681      vfprintf.o     \
682      vprintf.o      \
683      vsnprintf.o    \
684      vsprintf.o     \
685      vwprintf.o     \
686      wprintf.o      \

688 # c89 variants to support 32-bit size of c89 u/intmax_t (32-bit libc only)
689 PORTPRINT_C89=    \
690      vfprintf_c89.o \
691      vprintf_c89.o  \
692      vsnprintf_c89.o \
693      vsprintf_c89.o \
694      vwprintf_c89.o \

696 PORTSTDIO_C89=   \
697      vscanf_c89.o  \
698      vwscanf_c89.o \

700 # portable stdio objects that contain large file interfaces.
701 # Note: fopen64 is a special case, as we build it small.
702 PORTSTDIO64=      \
703      fopen64.o     \
704      fpos64.o      \

706 PORTSTDIO_W=     \
707      doscan_w.o    \

709 PORTSTDIO=        \
710      __extensions.o \
711      __endopen.o    \
712      _filbuf.o      \
713      _findbuf.o     \
714      _flsbuf.o      \
715      _wrtchk.o      \
716      clearerr.o     \
717      ctermid.o      \
718      ctermid_r.o    \
719      cuserid.o       \
720      data.o         \
721      doscan.o       \

```

```

722      fdopen.o       \
723      feof.o         \
724      ferrord.o      \
725      fgetc.o        \
726      fgets.o        \
727      fileno.o       \
728      flockf.o       \
729      flush.o        \
730      fopen.o         \
731      fpos.o         \
732      fputc.o        \
733      fputs.o        \
734      fread.o        \
735      fseek.o        \
736      fseeko.o       \
737      ftell.o        \
738      ftello.o       \
739      fwrite.o       \
740      getc.o         \
741      getchar.o      \
742      getline.o      \
743      getpass.o      \
744      gets.o         \
745      getw.o         \
746      popen.o        \
747      putc.o         \
748      putchar.o      \
749      puts.o         \
750      putw.o         \
751      rewind.o       \
752      scanf.o        \
753      setbuf.o       \
754      setbuffer.o    \
755      setvbuf.o      \
756      system.o       \
757      tempnam.o      \
758      tmpfile.o      \
759      tmpnam_r.o     \
760      ungetc.o       \
761      mse.o          \
762      vscanf.o       \
763      vwscanf.o      \
764      wscanf.o       \

766 PORTI18N=        \
767      getwchar.o     \
768      putwchar.o     \
769      putws.o        \
770      strtows.o      \
771      wcsnlen.o      \
772      wcstoimax.o    \
773      wctol.o        \
774      wcstoul.o      \
775      wcs wcs.o      \
776      wscat.o        \
777      wchr.o         \
778      wscmp.o        \
779      wscopy.o       \
780      wscspn.o       \
781      wsdup.o        \
782      wslen.o        \
783      wscat.o        \
784      wscmp.o        \
785      wscpy.o        \
786      wspbrk.o       \
787      wsprintf.o     \

```

```

788      wsrchr.o      \
789      wsscanf.o    \
790      wssp.o       \
791      wstod.o      \
792      wstok.o      \
793      wstol.o     \
794      wstoll.o    \
795      wsxfrm.o     \
796      wmemchr.o   \
797      wmemcmp.o   \
798      wmemcpy.o   \
799      wmemmove.o  \
800      wmemset.o   \
801      wcsstr.o    \
802      gettext.o   \
803      gettext_real.o \
804      gettext_util.o \
805      gettext_gnu.o \
806      plural_parser.o \
807      wdresolve.o \
808      _ctype.o    \
809      isascii.o   \
810      toascii.o   \
\
812 PORTI18N_COND= \
813      wcstol_longlong.o \
814      wcstoul_longlong.o \
\
816 PORTLOCALE= \
817      big5.o      \
818      btowc.o     \
819      collate.o   \
820      collcmp.o  \
821      euc.o       \
822      fnmatch.o  \
823      fgetwc.o   \
824      fgetws.o   \
825      fix_grouping.o \
826      fputwc.o   \
827      fputws.o  \
828      fwide.o    \
829      gb18030.o  \
830      gb2312.o   \
831      gbk.o      \
832      getdate.o  \
833      isdigit.o  \
834      iswctype.o \
835      ldp.o      \
836      lmessages.o \
837      lnumeric.o \
838      lmonetary.o \
839      localeimpl.o \
840      localeconv.o \
841      mbfowc.o   \
842      mblen.o    \
843      mbrlen.o   \
844      mbrtowc.o  \
845      mbsinit.o  \
846      mbsnrtowcs.o \
847      mbsrtowcs.o \
848      mbstowcs.o \
849      mbtowc.o   \
850      mskanji.o  \
851      nextwctype.o \
852      nl_langinfo.o \
853      none.o     \

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```

854      rune.o      \
855      runetype.o  \
856      setlocale.o \
857      setrunelocale.o \
858      strcasecmp.o \
859      strcasestr.o \
860      strcoll.o   \
861      strfmon.o   \
862      strftime.o  \
863      strncasecmp.o \
864      strptime.o  \
865      strxfrm.o   \
866      table.o     \
867      timelocal.o \
868      tolower.o   \
869      tolower.o   \
870      ungetwc.o  \
871      utf8.o      \
872      wctomb.o    \
873      wcscasecmp.o \
874      wcscoll.o   \
875      wcsftime.o  \
876      wcsnrtombs.o \
877      wcsrtombs.o \
878      wcstombs.o  \
879      wcswidth.o  \
880      wcsxfrm.o   \
881      wctob.o     \
882      wctomb.o    \
883      wctrans.o   \
884      wctype.o    \
885      wcwidth.o   \
886      wscoll.o    \
\
888 AIOOBJS= \
889      aio.o \
890      aio_alloc.o \
891      posix_aio.o \
\
893 RTOBJS= \
894      clock_timer.o \
895      mqueue.o \
896      pos4obj.o \
897      sched.o \
898      sem.o \
899      shm.o \
900      sigev_thread.o \
\
902 TPOOLBJS= \
903      thread_pool.o \
\
905 THREADSOBJS= \
906      alloc.o \
907      assfail.o \
908      cancel.o \
909      cll_thr.o \
910      door_calls.o \
911      tmem.o \
912      pthr_attr.o \
913      pthr_barrier.o \
914      pthr_cond.o \
915      pthr_mutex.o \
916      pthr_rwlock.o \
917      pthread.o \
918      rwlock.o \
919      scalls.o \

```

```

920      sema.o          \
921      sigaction.o     \
922      spawn.o         \
923      synch.o         \
924      tdb_agent.o    \
925      thr.o           \
926      thread_interface.o \
927      tls.o           \
928      tsd.o           \

930 THREADSMACHOBJS= \
931      machdep.o     \

933 THREADSASMOBJS= \
934      asm_subr.o    \

936 UNICODEOBJS= \
937      u8_textprep.o \
938      uconv.o       \

940 UNWINDMACHOBJS= \
941      unwind.o      \

943 UNWINDASMOBJS= \
944      unwind_frame.o \

946 # objects that implement the transitional large file API
947 PORTSYS64= \
948      lockf64.o    \
949      stat64.o     \

951 PORTSYS= \
952      _autofssys.o \
953      access.o     \
954      acctctl.o   \
955      bsd_signal.o \
956      chmod.o     \
957      chown.o     \
958      corectl.o   \
959      epoll.o     \
960      eventfd.o   \
961      exacctsys.o \
962      execl.o     \
963      execl.e.o   \
964      execv.o     \
965      fcntl.o     \
966      getpagesizes.o \
967      getpeerucred.o \
968      inst_sync.o \
969      issetugid.o \
970      label.o     \
971      link.o      \
972      lockf.o     \
973      lwp.o       \
974      lwp_cond.o \
975      lwp_rwlock.o \
976      lwp_sigmask.o \
977      meminfosys.o \
978      mkdir.o    \
979      mknod.o    \
980      msgsys.o   \
981      nfssys.o   \
982      open.o     \
983      pgrpssys.o \
984      posix_sigwait.o \
985      ppriv.o    \

```

```

986      psetsys.o   \
987      rctlsys.o   \
988      readlink.o  \
989      rename.o    \
990      sbrk.o      \
991      semsys.o    \
992      set_errno.o \
993      sharefs.o   \
994      shmsys.o    \
995      sidsys.o    \
996      siginterrupt.o \
997      signal.o    \
998      signalfd.o  \
999      sigpending.o \
1000     sigstack.o  \
1001     stat.o       \
1002     symlink.o   \
1003     tasksys.o   \
1004     time.o       \
1005     time_util.o \
1006     timerfd.o   \
1007     ucontext.o  \
1008     unlink.o    \
1009     ustat.o     \
1010     utimesys.o  \
1011     zone.o      \

1013 PORTREGEX= \
1014     glob.o    \
1015     regcmp.o  \
1016     regcomp.o \
1017     regerror.o \
1018     regex.o   \
1019     regexec.o \
1020     regfree.o \
1021     wordexp.o \

1023 PORTREGEX64= \
1024     glob64.o  \

1026 VALUES= values-Xa.o

1028 MOSTOBJS= \
1029     $(STRETS) \
1030     $(CRTOBJS) \
1031     $(DYNOBJS) \
1032     $(FPOBJS) \
1033     $(FPASMOBJS) \
1034     $(ATOMICOBJS) \
1035     $(CHACHAOBJS) \
1036     $(XATTROBJS) \
1037     $(COMOBJS) \
1038     $(DTRACEOBJS) \
1039     $(GENOBJS) \
1040     $(PRFOBJS) \
1041     $(PORTFFP) \
1042     $(PORTGEN) \
1043     $(PORTGEN64) \
1044     $(PORTI18N) \
1045     $(PORTI18N_COND) \
1046     $(PORTINET) \
1047     $(PORTLOCALE) \
1048     $(PORTPRINT) \
1049     $(PORTPRINT_C89) \
1050     $(PORTPRINT_W) \
1051     $(PORTREGEX) \

```

```

1052 $(PORTREGEX64) \
1053 $(PORTSTDIO) \
1054 $(PORTSTDIO64) \
1055 $(PORTSTDIO_C89) \
1056 $(PORTSTDIO_W) \
1057 $(PORTSYS) \
1058 $(PORTSYS64) \
1059 $(AIOBJS) \
1060 $(RTOBJS) \
1061 $(SECFLAGSOBJS) \
1062 $(TPOOLBJS) \
1063 $(THREADSOBJS) \
1064 $(THREADSMACHOBJS) \
1065 $(THREADSASMOBJS) \
1066 $(UNICODEOBJS) \
1067 $(UNWINDMACHOBJS) \
1068 $(UNWINDASMOBJS) \
1069 $(COMSYSOBJS) \
1070 $(SYSOBJS) \
1071 $(COMSYSOBJS64) \
1072 $(SYSOBJS64) \
1073 $(VALUES)

1075 TRACEOBJS= \
1076     plockstat.o

1078 # NOTE: libc.so.1 must be linked with the minimal crt1.o and crtn.o
1079 # modules whose source is provided in the $(SRC)/lib/crt directory.
1080 # This must be done because otherwise the Sun C compiler would insert
1081 # its own versions of these modules and those versions contain code
1082 # to call out to C++ initialization functions. Such C++ initialization
1083 # functions can call back into libc before thread initialization is
1084 # complete and this leads to segmentation violations and other problems.
1085 # Since libc contains no C++ code, linking with the minimal crt1.o and
1086 # crtn.o modules is safe and avoids the problems described above.
1087 OBJECTS= $(CRTI) $(MOSTOBJS) $(CRTN)
1088 CRTSRCS= ../../crt/sparc

1090 # include common library definitions
1091 include $(SRC)/lib/Makefile.lib

1093 # we need to override the default SONAME here because we might
1094 # be building a variant object (still libc.so.1, but different filename)
1095 SONAME = libc.so.1

1097 CFLAGS += $(CCVERBOSE)

1099 # This is necessary to avoid problems with calling _ex_unwind().
1100 # We probably don't want any inlining anyway.
1101 CFLAGS += -xinline=

1103 CERRWARN += -_gcc=-Wno-parentheses
1104 CERRWARN += -_gcc=-Wno-switch
1105 CERRWARN += -_gcc=-Wno-uninitialized
1106 CERRWARN += -_gcc=-Wno-unused-value
1107 CERRWARN += -_gcc=-Wno-unused-label
1108 CERRWARN += -_gcc=-Wno-unused-variable
1109 CERRWARN += -_gcc=-Wno-type-limits
1110 CERRWARN += -_gcc=-Wno-char-subscripts
1111 CERRWARN += -_gcc=-Wno-clobbered
1112 CERRWARN += -_gcc=-Wno-unused-function
1113 CERRWARN += -_gcc=-Wno-address

1115 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1116 # enables ASSERT() checking in the threads portion of the library.
1117 # This is automatically enabled for DEBUG builds, not for non-debug builds.

```

```

1118 THREAD_DEBUG =
1119 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1121 # Make string literals read-only to save memory.
1122 CFLAGS += $(XSTRCONST)

1124 ALTPICS= $(TRACEOBJS:%=pics/%)

1126 $(DYNLIB) := BUILD.SO = $(LD) -o $$@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)

1128 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1130 CFLAGS += $(EXTN_CFLAGS)
1131 CPPFLAGS= -D_REENTRANT -Dsparc $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1132     -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1133 ASFLAGS= $(EXTN_ASFLAGS) $(AS_PICFLAGS) -P -D__STDC__ -D_ASM $(CPPFLAGS)
1133 ASFLAGS= $(EXTN_ASFLAGS) -K pic -P -D__STDC__ -D_ASM $(CPPFLAGS) $(sparc_

1135 # As a favor to the dtrace syscall provider, libc still calls the
1136 # old syscall traps that have been obsoleted by the *at() interfaces.
1137 # Delete this to compile libc using only the new *at() system call traps
1138 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1140 # Inform the run-time linker about libc specialized initialization
1141 RTLDINFO = -z rtldinfo=tls_rtldinfo
1142 DYNFLAGS += $(RTLDINFO)

1144 # Force libc's internal references to be resolved immediately upon loading
1145 # in order to avoid critical region problems. Since almost all libc symbols
1146 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1147 DYNFLAGS += -znw

1149 DYNFLAGS += -e __rtboot
1150 DYNFLAGS += $(EXTN_DYNFLAGS)

1152 # Inform the kernel about the initial DTrace area (in case
1153 # libc is being used as the interpreter / runtime linker).
1154 DTRACE_DATA = -zdtrace=dtrace_data
1155 DYNFLAGS += $(DTRACE_DATA)

1157 # DTrace needs an executable data segment.
1158 MAPFILE.NED=

1160 BUILD.s= $(AS) $(ASFLAGS) $< -o $$@

1162 # Override this top level flag so the compiler builds in its native
1163 # C99 mode. This has been enabled to support the complex arithmetic
1164 # added to libc.
1165 CSTD= $(CSTD_GNU99)

1167 # libc method of building an archive
1168 # The "$(GREP) -v ' L '" part is necessary only until
1169 # lorder is fixed to ignore thread-local variables.
1170 BUILD.AR= $(RM) $@ ; \
1171     $(AR) q $@ $(LORDER) $(MOSTOBJS:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1173 # extra files for the clean target
1174 CLEANFILES= \
1175     $(LIBCDIR)/port/gen/errlst.c \
1176     $(LIBCDIR)/port/gen/new_list.c \
1177     assym.h \
1178     genassym \
1179     $(LIBCBASE)/crt/_rtld.s \
1180     $(LIBCBASE)/crt/_rtbootld.s \
1181     pics/_rtbootld.o \
1182     pics/crt1.o \

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```

1183     pics/crtn.o          \
1184     $(ALTPICS)

1186 CLOBBERFILES += $(LIB_PIC)

1188 # list of C source for lint
1189 SRCS=
1190     $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1191     $(XATTROBJS:%.o=$(SRC)/common/xattr/%.c) \
1192     $(COMOBJS:%.o=$(SRC)/common/util/%.c) \
1193     $(DTRACEOBJS:%.o=$(SRC)/common/dtrace/%.c) \
1194     $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1195     $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1196     $(PORTI18N:%.o=$(LIBCDIR)/port/il8n/%.c) \
1197     $(PORTINET:%.o=$(LIBCDIR)/port/inet/%.c) \
1198     $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \
1199     $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1200     $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1201     $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1202     $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1203     $(AIOOBJS:%.o=$(LIBCDIR)/port/aio/%.c) \
1204     $(RTOBJS:%.o=$(LIBCDIR)/port/rt/%.c) \
1205     $(SECFLAGSOBJS:%.o=$(SRC)/common/secflags/%.c) \
1206     $(TPOOLSOBJS:%.o=$(LIBCDIR)/port/tpool/%.c) \
1207     $(THREADSOBJS:%.o=$(LIBCDIR)/port/threads/%.c) \
1208     $(THREADEMACHOBJS:%.o=$(LIBCDIR)/$(MACH)/threads/%.c) \
1209     $(UNICODEOBJS:%.o=$(SRC)/common/unicode/%.c) \
1210     $(UNWINDMACHOBJS:%.o=$(LIBCDIR)/port/unwind/%.c) \
1211     $(FPOBJS:%.o=$(LIBCDIR)/$(MACH)/fp/%.c) \
1212     $(LIBCBASE)/crt/_ftou.c \
1213     $(LIBCBASE)/gen/_xregs_clrptr.c \
1214     $(LIBCBASE)/gen/byteorder.c \
1215     $(LIBCBASE)/gen/ecvt.c \
1216     $(LIBCBASE)/gen/endian.c \
1217     $(LIBCBASE)/gen/getctxt.c \
1218     $(LIBCBASE)/gen/lmul.c \
1219     $(LIBCBASE)/gen/makectxt.c \
1220     $(LIBCBASE)/gen/signfolst.c \
1221     $(LIBCBASE)/gen/siglongjmp.c \
1222     $(LIBCBASE)/gen/swapctxt.c \
1223     $(LIBCBASE)/sys/ptrace.c \
1224     $(LIBCBASE)/sys/uadmin.c

1226 # conditional assignments
1227 $(DYNLIB) := CRTI = crti.o
1228 $(DYNLIB) := CRTN = crtn.o

1230 # Files which need the threads .il inline template
1231 TIL=
1232     aio.o \
1233     alloc.o \
1234     assfail.o \
1235     atexit.o \
1236     atfork.o \
1237     cancel.o \
1238     door_calls.o \
1239     err.o \
1240     errno.o \
1241     getctxt.o \
1242     lwp.o \
1243     ma.o \
1244     machdep.o \
1245     posix_aio.o \
1246     pthr_attr.o \
1247     pthr_barrier.o \
1248     pthr_cond.o \

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1249     pthr_mutex.o          \
1250     pthr_rwlock.o        \
1251     pthread.o            \
1252     rand.o               \
1253     rwlock.o             \
1254     scalls.o             \
1255     sched.o              \
1256     sema.o               \
1257     sigaction.o          \
1258     sigev_thread.o       \
1259     spawn.o              \
1260     stack.o              \
1261     swapctxt.o           \
1262     synch.o              \
1263     tdb_agent.o          \
1264     thr.o                 \
1265     thread_interface.o   \
1266     thread_pool.o        \
1267     tls.o                \
1268     tsd.o                \
1269     unwind.o

1271 $(TIL:%=pics%) := CFLAGS += $(LIBCBASE)/threads/sparc.il

1273 # special kludge for inlines with 'cas':
1274 pics/rwlock.o pics/synch.o pics/lwp.o pics/door_calls.o := \
1275     sparc_CFLAGS += -gcc=Wa,-xarch=v8plus

1277 # Files in port/fp subdirectory that need base.il inline template
1278 IL=
1279     __flt_decim.o \
1280     decimal_bin.o

1282 $(IL:%=pics%) := CFLAGS += $(LIBCBASE)/fp/base.il

1284 # Files in fp subdirectory which need __quad.il inline template
1285 QIL=
1286     _Q_add.o \
1287     _Q_cmp.o \
1288     _Q_cmpe.o \
1289     _Q_div.o \
1290     _Q_dtoq.o \
1291     _Q_fcc.o \
1292     _Q_mul.o \
1293     _Q_qtod.o \
1294     _Q_qtoi.o \
1295     _Q_qtos.o \
1296     _Q_qtou.o \
1297     _Q_sqrt.o \
1298     _Q_stoq.o \
1299     _Q_sub.o

1301 $(QIL:%=pics%) := CFLAGS += $(LIBCDIR)/$(MACH)/fp/__quad.il
1302 pics/_Q.o := sparc_COPTFLAG = -x04 -dalign
1303 pics/__quad.o := sparc_COPTFLAG = -x04 -dalign

1305 # large-file-aware components that should be built large

1307 $(COMYSOBS64:%=pics%) := \
1308     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1310 $(SYSOBS64:%=pics%) := \
1311     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1313 $(PORTGEN64:%=pics%) := \
1314     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

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```

1316 $(PORTREGEX64:%=pics/) := \
1317     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1319 $(PORTSTDIO64:%=pics/) := \
1320     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1322 $(PORTSYS64:%=pics/) := \
1323     CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1325 $(PORTSTDIO_W:%=pics/) := \
1326     CPPFLAGS += -D_WIDE

1328 $(PORTPRINT_W:%=pics/) := \
1329     CPPFLAGS += -D_WIDE

1331 # printf/scanf functions to support c89-sized intmax_t variables
1332 $(PORTPRINT_C89:%=pics/) := \
1333     CPPFLAGS += -D_C89_INTMAX32

1335 $(PORTSTDIO_C89:%=pics/) := \
1336     CPPFLAGS += -D_C89_INTMAX32

1338 $(PORTI18N_COND:%=pics/) := \
1339     CPPFLAGS += -D_WCS_LONGLONG

1341 pics/arc4random.o :=     CPPFLAGS += -I$(SRC)/common/crypto/chacha

1343 # Files which need extra optimization
1344 pics/getenv.o := sparc_COPTFLAG = -xO4

1346 .KEEP_STATE:

1348 all: $(LIBS) $(LIB_PIC)

1350 lint :=     CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1351 lint :=     CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1352 lint :=     LINTFLAGS += -mn

1354 lint:
1355     @echo $(LINT.c) ... $(LDLIBS)
1356     @$$(LINT.c) $(SRCS) $(LDLIBS)

1358 $(LINTLIB):= SRCS=$(LIBCDIR)/port/l1ib-lc
1359 $(LINTLIB):= CPPFLAGS += -D_MSE_INT_H
1360 $(LINTLIB):= LINTFLAGS=-nvx

1362 # object files that depend on inline template
1363 $(TIL:%=pics/): $(LIBCBASE)/threads/sparc.il
1364 $(IL:%=pics/): $(LIBCBASE)/fp/base.il
1365 $(QLL:%=pics/): $(LIBCDIR)/$(MACH)/fp/__quad.il

1367 # include common libc targets
1368 include $(LIBCDIR)/Makefile.targ

1370 # We need to strip out all CTF and DOF data from the static library
1371 $(LIB_PIC) := DIR = pics
1372 $(LIB_PIC): pics $$ (PICS)
1373     $(BUILD.AR)
1374     $(MCS) -d -n .SUNW_ctf $@ > /dev/null 2>&1
1375     $(MCS) -d -n .SUNW_dof $@ > /dev/null 2>&1
1376     $(AR) -ts $@ > /dev/null
1377     $(POST_PROCESS_A)

1379 # special cases
1380 $(STRETS:%=pics/): $(LIBCBASE)/crt/stret.s

```

```

1381     $(AS) $(ASFLAGS) -DSTRET$(@F:stret%.o=) $(LIBCBASE)/crt/stret.s -o $$@
1382     $(POST_PROCESS_O)

1384 $(LIBCBASE)/crt/_rtbootld.s: $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.
1385     $(CC) $(CPPFLAGS) $(CTF_FLAGS) -O -S $(C_PICFLAGS) \
1386     $(LIBCBASE)/crt/_rtld.c -o $(LIBCBASE)/crt/_rtld.s
1387     $(CAT) $(LIBCBASE)/crt/_rtboot.s $(LIBCBASE)/crt/_rtld.s > $$@
1388     $(RM) $(LIBCBASE)/crt/_rtld.s

1390 # partially built from C source
1391 pics/_rtbootld.o: $(LIBCBASE)/crt/_rtbootld.s
1392     $(AS) $(ASFLAGS) $(LIBCBASE)/crt/_rtbootld.s -o $$@
1393     $(CTFCONVERT_O)

1395 ASSYMDEP_OBJS= \
1396     _lwp_mutex_unlock.o \
1397     _stack_grow.o \
1398     asm_subr.o \
1399     setjmp.o \
1400     smt_pause.o \
1401     tls_get_addr.o \
1402     unwind_frame.o \
1403     vforkx.o

1405 $(ASSYMDEP_OBJS:%=pics/) :=     CPPFLAGS += -I.

1407 $(ASSYMDEP_OBJS:%=pics/): assym.h

1409 # assym.h build rules

1411 assym.h := CFLAGS += -g

1413 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c

1415 genassym: $(GENASSYM_C)
1416     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \
1417     $(CPPFLAGS.native) -o $$@ $(GENASSYM_C)

1419 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in

1421 assym.h: $(OFFSETS) genassym
1422     $(OFFSETS_CREATE) <$(OFFSETS) >$$@
1423     ./genassym >>$$@

1425 # derived C source and related explicit dependencies
1426 $(LIBCDIR)/port/gen/errlst.c + \
1427 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/
1428     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist

1430 pics/errlst.o: $(LIBCDIR)/port/gen/errlst.c

1432 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c

```

```

*****
25252 Thu Oct 11 01:49:47 2018
new/usr/src/lib/libc/sparcv9/Makefile.com
9884 cw(1) should use -fpic rather than -Kpic
*****
1 #
2 # CDDL HEADER START
3 #
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24 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
25 # Copyright (c) 2015, Joyent, Inc. All rights reserved.
26 # Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved.
27 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
28 # Copyright 2018 Nexenta Systems, Inc.
29 #
30 #
31 LIBCDIR=      $(SRC)/lib/libc
32 LIB_PIC=      libc_pic.a
33 VERS=        .1
34 CPP=         /usr/lib/cpp
35 TARGET_ARCH= sparcv9

37 # objects are grouped by source directory

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

48 # local objects
49 STRETS=

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

58 DYNOBJS=

60 FPOBJS=     \
61 _D_cplx_div.o \

```

```

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

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

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

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

117 ATOMICOBJS= \
118 atomic.o

120 CHACHAOBJS= \
121 chacha.o

123 XATTROBJS= \
124 xattr_common.o

126 COMOBJS=   \
127 bcmp.o \

```

```

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

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

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

174 SYSOBJS64=

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

```

```

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

```

```

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

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

```

```

326 vforkx.o \

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

709 PORTI18N=      \|
710     getwchar.o    \|
711     putwchar.o    \|
712     puts.o        \|
713     strtows.o     \|
714     wcsnlen.o     \|
715     wcstoimax.o   \|
716     wcstol.o      \|
717     wcstoul.o     \|
718     wcswcs.o      \|
719     wscat.o       \|
720     wschr.o       \|
721     wscmp.o       \|

```

```

722     wscpy.o        \|
723     wcsnspn.o     \|
724     wsdup.o        \|
725     wslen.o        \|
726     wsncat.o      \|
727     wsncmp.o      \|
728     wsncpy.o      \|
729     wspbrk.o      \|
730     wsprintf.o    \|
731     wsrchr.o      \|
732     wsscanf.o     \|
733     wsspn.o       \|
734     wstod.o       \|
735     wstok.o       \|
736     wstol.o       \|
737     wstoll.o      \|
738     wsxfrm.o      \|
739     wmemchr.o     \|
740     wmemcmp.o     \|
741     wmemcpy.o     \|
742     wmemmove.o    \|
743     wmemset.o     \|
744     wcstr.o       \|
745     gettext.o     \|
746     gettext_real.o \|
747     gettext_util.o \|
748     gettext_gnu.o \|
749     plural_parser.o \|
750     wdresolve.o   \|
751     _ctype.o      \|
752     isascii.o     \|
753     toascii.o     \|

755 PORTI18N_COND= \|
756     wcstol_longlong.o \|
757     wcstoul_longlong.o \|

759 PORTLOCALE=     \|
760     big5.o        \|
761     btowc.o       \|
762     collate.o     \|
763     collcmp.o    \|
764     euc.o         \|
765     fnmatch.o    \|
766     fgetwc.o     \|
767     fgetws.o     \|
768     fix_grouping.o \|
769     fputwc.o     \|
770     fputws.o     \|
771     fwide.o       \|
772     gb18030.o    \|
773     gb2312.o     \|
774     gbk.o         \|
775     getdate.o    \|
776     isdigit.o    \|
777     iswctype.o   \|
778     ldpair.o     \|
779     lmessages.o  \|
780     lnumeric.o   \|
781     lmonetary.o  \|
782     localeconv.o \|
783     localeimpl.o \|
784     mbftowc.o    \|
785     mblen.o      \|
786     mbrlen.o     \|
787     mbrtowc.o    \|

```

```

788     mbsinit.o           \
789     mbsnrto wcs.o       \
790     mbsrtowcs.o        \
791     mbstowcs.o         \
792     mbtowc.o           \
793     mskanji.o          \
794     nextwctype.o       \
795     nl_langinfo.o      \
796     none.o             \
797     rune.o             \
798     runetype.o         \
799     setlocale.o        \
800     setrunelocale.o    \
801     strcasecmp.o       \
802     strcasestr.o       \
803     strcoll.o          \
804     strfmon.o          \
805     strptime.o         \
806     strncasecmp.o      \
807     strtptime.o        \
808     strxfrm.o          \
809     table.o            \
810     timelocal.o        \
811     tolower.o          \
812     towlower.o         \
813     ungetwc.o          \
814     utf8.o             \
815     wcrto mb.o         \
816     wcscasecmp.o      \
817     wscoll.o           \
818     wcsftime.o         \
819     wcsnrto mbs.o      \
820     wcsrtombs.o        \
821     wcstombs.o         \
822     wcswidth.o         \
823     wcsxfrm.o          \
824     wctob.o            \
825     wctomb.o           \
826     wctrans.o          \
827     wctype.o           \
828     wcwidth.o          \
829     wscoll.o           \
\
831     AIOOBJS=           \
832     aio.o              \
833     aio_alloc.o        \
834     posix_aio.o        \
\
836     RTOBJS=            \
837     clock_timer.o      \
838     mqueue.o           \
839     pos4obj.o          \
840     sched.o            \
841     sem.o              \
842     shm.o              \
843     sigev_thread.o     \
\
845     SECFLAGSOBJS=     \
846     secflags.o        \
\
848     TPOOLOBJS=        \
849     thread_pool.o     \
\
851     THREADSOBJS=      \
852     alloc.o            \
853     assfail.o         \

```

```

854     cli_thr.o          \
855     cancel.o           \
856     door_calls.o       \
857     tmem.o             \
858     pthr_attr.o        \
859     pthr_barrier.o     \
860     pthr_cond.o        \
861     pthr_mutex.o       \
862     pthr_rwlock.o      \
863     pthread.o          \
864     rwlock.o           \
865     scalls.o           \
866     sema.o             \
867     sigaction.o        \
868     spawn.o            \
869     synch.o            \
870     tdb_agent.o        \
871     thr.o              \
872     thread_interface.o \
873     tls.o              \
874     tsd.o              \
\
876     THREADSMACHOBJS=  \
877     machdep.o          \
\
879     THREADSASMOBJS=   \
880     asm_subr.o         \
\
882     UNICODEOBJS=     \
883     u8_textprep.o     \
884     uconv.o           \
\
886     UNWINDMACHOBJS=   \
887     unwind.o          \
\
889     UNWINDASMOBJS=    \
890     unwind_frame.o    \
\
892     # Preserved solely to ease maintenance of 32-bit and 64-bit library builds
893     # This macro should ALWAYS be empty; native APIs are already 'large file'.
894     PORTSYS64=
\
896     PORTSYS=           \
897     _autofssys.o       \
898     access.o           \
899     acctctl.o          \
900     bsd_signal.o       \
901     chmod.o            \
902     chown.o            \
903     corectl.o          \
904     eventfd.o          \
905     epoll.o            \
906     exacctsyst.o       \
907     execl.o            \
908     execl.o            \
909     execv.o            \
910     fcntl.o            \
911     getpagesizes.o     \
912     getpeerucred.o     \
913     inst_sync.o        \
914     issetugid.o        \
915     label.o            \
916     link.o             \
917     lockf.o            \
918     lwp.o              \
919     lwp_cond.o         \

```

```

920 lwp_rwlock.o \
921 lwp_sigmask.o \
922 meminfosys.o \
923 mkdir.o \
924 mknod.o \
925 msgsys.o \
926 nfssys.o \
927 open.o \
928 pgrpsys.o \
929 posix_sigwait.o \
930 ppriv.o \
931 psetsys.o \
932 rctlsys.o \
933 readlink.o \
934 rename.o \
935 sbrk.o \
936 semsys.o \
937 set_errno.o \
938 sharefs.o \
939 shmsys.o \
940 sidsys.o \
941 siginterrupt.o \
942 signal.o \
943 signalfd.o \
944 sigpending.o \
945 sigstack.o \
946 stat.o \
947 symlink.o \
948 tasksys.o \
949 time.o \
950 time_util.o \
951 timerfd.o \
952 ucontext.o \
953 unlink.o \
954 ustat.o \
955 utimesys.o \
956 zone.o \

958 PORTREGEX= \
959 glob.o \
960 regcmp.o \
961 regcomp.o \
962 regerror.o \
963 regex.o \
964 regexec.o \
965 regfree.o \
966 wordexp.o \

968 VALUES= values-Xa.o \

970 MOSTOBSJ= \
971 $(STRETS) \
972 $(CRTOBSJ) \
973 $(DYNOBJS) \
974 $(FPOBJS) \
975 $(FPOBJS64) \
976 $(FPASMOBJS) \
977 $(ATOMICOBJS) \
978 $(CHACHAOBJS) \
979 $(XATTROBJS) \
980 $(COMOBJS) \
981 $(GENOBJS) \
982 $(PRFOBJS) \
983 $(PORTFP) \
984 $(PORTGEN) \
985 $(PORTGEN64) \

```

```

986 $(PORTI18N) \
987 $(PORTI18N_COND) \
988 $(PORTINET) \
989 $(PORTLOCALE) \
990 $(PORTPRINT) \
991 $(PORTPRINT_W) \
992 $(PORTREGEX) \
993 $(PORTSTDIO) \
994 $(PORTSTDIO64) \
995 $(PORTSTDIO_W) \
996 $(PORTSYS) \
997 $(PORTSYS64) \
998 $(AIOOBJS) \
999 $(RTOBJS) \
1000 $(SECFLAGSOBJS) \
1001 $(TPOOLBJS) \
1002 $(THREADSOBJS) \
1003 $(THREADSMACHOBJS) \
1004 $(THREADSASMOBJS) \
1005 $(UNICODEOBJS) \
1006 $(UNWINDMACHOBJS) \
1007 $(UNWINDASMOBJS) \
1008 $(COMSYSOBJS) \
1009 $(YSOBSJ) \
1010 $(COMSYSOBJS64) \
1011 $(YSOBSJ64) \
1012 $(VALUES) \

1014 TRACEOBSJ= \
1015 plockstat.o \

1017 # NOTE: libc.so.1 must be linked with the minimal crt1.o and crtn.o
1018 # modules whose source is provided in the $(SRC)/lib/crt directory.
1019 # This must be done because otherwise the Sun C compiler would insert
1020 # its own versions of these modules and those versions contain code
1021 # to call out to C++ initialization functions. Such C++ initialization
1022 # functions can call back into libc before thread initialization is
1023 # complete and this leads to segmentation violations and other problems.
1024 # Since libc contains no C++ code, linking with the minimal crt1.o and
1025 # crtn.o modules is safe and avoids the problems described above.
1026 OBJECTS= $(CRTI) $(MOSTOBSJ) $(CRTN)
1027 CRTSRCS= ../../crt/sparc

1029 # include common library definitions
1030 include $(SRC)/lib/Makefile.lib
1031 include $(SRC)/lib/Makefile.lib.64

1033 # we need to override the default SONAME here because we might
1034 # be building a variant object (still libc.so.1, but different filename)
1035 SONAME = libc.so.1

1037 CFLAGS64 += $(CCVERBOSE)

1039 # This is necessary to avoid problems with calling _ex_unwind().
1040 # We probably don't want any inlining anyway.
1041 CFLAGS64 += -xinline=

1043 CERRWARN += -_gcc=-Wno-parentheses
1044 CERRWARN += -_gcc=-Wno-switch
1045 CERRWARN += -_gcc=-Wno-uninitialized
1046 CERRWARN += -_gcc=-Wno-unused-value
1047 CERRWARN += -_gcc=-Wno-unused-label
1048 CERRWARN += -_gcc=-Wno-unused-variable
1049 CERRWARN += -_gcc=-Wno-type-limits
1050 CERRWARN += -_gcc=-Wno-char-subscripts
1051 CERRWARN += -_gcc=-Wno-clobbered

```

```

1052 CERRWARN += _gcc=-Wno-unused-function
1053 CERRWARN += _gcc=-Wno-address

1055 # Setting THREAD_DEBUG = -DTHREAD_DEBUG (make THREAD_DEBUG=-DTHREAD_DEBUG ...)
1056 # enables ASSERT() checking in the threads portion of the library.
1057 # This is automatically enabled for DEBUG builds, not for non-debug builds.
1058 THREAD_DEBUG =
1059 $(NOT_RELEASE_BUILD)THREAD_DEBUG = -DTHREAD_DEBUG

1061 # Make string literals read-only to save memory.
1062 CFLAGS64 += $(XSTRCONST)

1064 ALTPICS= $(TRACEOBSJ:%=pics/%)

1066 $(DYNLIB) := BUILD.SO = $(LD) -o $@ -G $(DYNFLAGS) $(PICS) $(ALTPICS) $(EXTPICS)

1068 MAPFILES = $(LIBCDIR)/port/mapfile-vers

1070 sparcv9_C_PICFLAGS= $(sparcv9_C_BIGPICFLAGS)
1070 sparcv9_C_PICFLAGS= -K PIC
1071 CFLAGS64 += $(EXTN_CFLAGS)
1072 CPPFLAGS= -D_REENTRANT -Dsparc $(EXTN_CPPFLAGS) $(THREAD_DEBUG) \
1073 -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc $(CPPFLAGS.master)
1074 ASFLAGS= $(EXTN_ASFLAGS) $(AS_BIGPICFLAGS) -P -D_STDC -D_ASM -D_sparc
1074 ASFLAGS= $(EXTN_ASFLAGS) -K PIC -P -D_STDC -D_ASM -D_sparcv9 $(CPPFLA
1075 $(sparcv9_AS_XARCH)

1077 # As a favor to the dtrace syscall provider, libc still calls the
1078 # old syscall traps that have been obsoleted by the *at() interfaces.
1079 # Delete this to compile libc using only the new *at() system call traps
1080 CPPFLAGS += -D_RETAIN_OLD_SYSCALLS

1082 # Inform the run-time linker about libc specialized initialization
1083 RTLDINFO = -z rtldinfo=tls_rtldinfo
1084 DYNFLAGS += $(RTLDINFO)

1086 # Force libc's internal references to be resolved immediately upon loading
1087 # in order to avoid critical region problems. Since almost all libc symbols
1088 # are marked 'protected' in the mapfiles, this is a minimal set (15 to 20).
1089 DYNFLAGS += -znw

1091 DYNFLAGS += $(EXTN_DYNFLAGS)

1093 BUILD.s= $(AS) $(ASFLAGS) $< -o $@

1095 # Override this top level flag so the compiler builds in its native
1096 # C99 mode. This has been enabled to support the complex arithmetic
1097 # added to libc.
1098 CSTD= $(CSTD_GNU99)

1100 # libc method of building an archive
1101 # The "$(GREP) -v ' L ' " part is necessary only until
1102 # lorder is fixed to ignore thread-local variables.
1103 BUILD.AR= $(RM) $@ ; \
1104 $(AR) q $@ $(LORDER) $(MOSTOBSJ:%=$(DIR)/%) | $(GREP) -v ' L ' | $(TSOR

1106 # extra files for the clean target
1107 CLEANFILES= \
1108 $(LIBCDIR)/port/gen/errlst.c \
1109 $(LIBCDIR)/port/gen/new_list.c \
1110 assym.h \
1111 genassym \
1112 pics/crti.o \
1113 pics/crtn.o \
1114 $(ALTPICS)

```

```

1116 CLOBBERFILES += $(LIB_PIC)

1118 # list of C source for lint
1119 SRCS= \
1120 $(ATOMICOBJS:%.o=$(SRC)/common/atomic/%.c) \
1121 $(XATTROBJS:%.o=$(SRC)/common/xattr/%.c) \
1122 $(COMOBSJ:%.o=$(SRC)/common/util/%.c) \
1123 $(PORTFP:%.o=$(LIBCDIR)/port/fp/%.c) \
1124 $(PORTGEN:%.o=$(LIBCDIR)/port/gen/%.c) \
1125 $(PORTI18N:%.o=$(LIBCDIR)/port/i18n/%.c) \
1126 $(PORTINET:%.o=$(LIBCDIR)/port/inet/%.c) \
1127 $(PORTLOCALE:%.o=$(LIBCDIR)/port/locale/%.c) \
1128 $(PORTPRINT:%.o=$(LIBCDIR)/port/print/%.c) \
1129 $(PORTREGEX:%.o=$(LIBCDIR)/port/regex/%.c) \
1130 $(PORTSTDIO:%.o=$(LIBCDIR)/port/stdio/%.c) \
1131 $(PORTSYS:%.o=$(LIBCDIR)/port/sys/%.c) \
1132 $(AIOOBJS:%.o=$(LIBCDIR)/port/aio/%.c) \
1133 $(RTOBJS:%.o=$(LIBCDIR)/port/rt/%.c) \
1134 $(SECFLAGSOBJS:%.o=$(SRC)/common/secflags/%.c) \
1135 $(TPOOLOBJS:%.o=$(LIBCDIR)/port/tpool/%.c) \
1136 $(THREADSOBJS:%.o=$(LIBCDIR)/port/threads/%.c) \
1137 $(THREDSMACHOBJS:%.o=$(LIBCDIR)/$(MACH)/threads/%.c) \
1138 $(UNICODEOBJS:%.o=$(SRC)/common/unicode/%.c) \
1139 $(UNWINDMACHOBJS:%.o=$(LIBCDIR)/port/unwind/%.c) \
1140 $(FPOBJS:%.o=$(LIBCDIR)/$(MACH)/fp/%.c) \
1141 $(FPOBJS64:%.o=$(LIBCBASE)/fp/%.c) \
1142 $(LIBCBASE)/crt/_ftou.c \
1143 $(LIBCBASE)/gen/_xregs_clrptr.c \
1144 $(LIBCBASE)/gen/byteorder.c \
1145 $(LIBCBASE)/gen/endian.c \
1146 $(LIBCBASE)/gen/ecvt.c \
1147 $(LIBCBASE)/gen/getctxt.c \
1148 $(LIBCBASE)/gen/makectxt.c \
1149 $(LIBCBASE)/gen/signfolst.c \
1150 $(LIBCBASE)/gen/siglongjmp.c \
1151 $(LIBCBASE)/gen/swapctxt.c

1153 # conditional assignments
1154 $(DYNLIB) := CRTI = crt.i.o
1155 $(DYNLIB) := CRTN = crtn.o

1157 # Files which need the threads .il inline template
1158 TIL= \
1159 aio.o \
1160 alloc.o \
1161 assfail.o \
1162 atexit.o \
1163 atfork.o \
1164 cancel.o \
1165 door_calls.o \
1166 err.o \
1167 errno.o \
1168 getctxt.o \
1169 lwp.o \
1170 ma.o \
1171 machdep.o \
1172 posix_aio.o \
1173 pthr_attr.o \
1174 pthr_barrier.o \
1175 pthr_cond.o \
1176 pthr_mutex.o \
1177 pthr_rwlock.o \
1178 pthread.o \
1179 rand.o \
1180 rwlock.o \
1181 scalls.o

```

```

1182 sched.o \
1183 sema.o \
1184 sigaction.o \
1185 sigev_thread.o \
1186 spawn.o \
1187 stack.o \
1188 swapctxt.o \
1189 synch.o \
1190 tdb_agent.o \
1191 thr.o \
1192 thread_interface.o \
1193 thread_pool.o \
1194 tls.o \
1195 tsd.o \
1196 unwind.o

1198 $(TIL:%=pics/%) := CFLAGS64 += $(LIBCBASE)/threads/sparcv9.il

1200 # Files in fp, port/fp subdirectories that need base.il inline template
1201 IL= \
1202 __flt_decim.o \
1203 decimal_bin.o

1205 $(IL:%=pics/%) := CFLAGS64 += $(LIBCBASE)/fp/base.il

1207 # Files in fp subdirectory which need __quad.il inline template
1208 QIL= \
1209 __Q_add.o \
1210 __Q_cmp.o \
1211 __Q_cmpe.o \
1212 __Q_div.o \
1213 __Q_dtoq.o \
1214 __Q_fcc.o \
1215 __Q_mul.o \
1216 __Q_qtod.o \
1217 __Q_qtoi.o \
1218 __Q_qtos.o \
1219 __Q_qtou.o \
1220 __Q_sqrt.o \
1221 __Q_stoq.o \
1222 __Q_sub.o \
1223 __Qp_qtox.o \
1224 __Qp_qtoux.o

1226 $(QIL:%=pics/%) := CFLAGS64 += $(LIBCDIR)/$(MACH)/fp/__quad.il
1227 pics/_Qp%.o := CFLAGS64 += -I$(LIBCDIR)/$(MACH)/fp
1228 pics/_Q%.o := sparcv9_COPTFLAG = -x04 -xchip=ultra

1230 # Files in crt subdirectory which need muldiv64.il inline template
1231 #CIL= mul64.o divrem64.o
1232 $(CIL:%=pics/%) := CFLAGS += $(LIBCBASE)/crt/mul64.il

1234 # large-file-aware components that should be built large

1236 #$(COMSYSOBS64:%=pics/%) := \
1237 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1239 #$(SYSOBS64:%=pics/%) := \
1240 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1242 #$(PORTGEN64:%=pics/%) := \
1243 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1245 #$(PORTSTDIO64:%=pics/%) := \
1246 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

```

```

1248 #$(PORTSYS64:%=pics/%) := \
1249 # CPPFLAGS += -D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64

1251 $(PORTSTDIO_W:%=pics/%) := \
1252 CPPFLAGS += -D_WIDE

1254 $(PORTPRINT_W:%=pics/%) := \
1255 CPPFLAGS += -D_WIDE

1257 $(PORTI18N_COND:%=pics/%) := \
1258 CPPFLAGS += -D_WCS_LOGLONG

1260 pics/arc4random.o := CPPFLAGS += -I$(SRC)/common/crypto/chacha

1262 # Files which need extra optimization
1263 pics/getenv.o := sparcv9_COPTFLAG = -x04

1265 .KEEP_STATE:

1267 all: $(LIBS) $(LIB_PIC)

1269 lint := CPPFLAGS += -I$(LIBCDIR)/$(MACH)/fp
1270 lint := CPPFLAGS += -D_MSE_INT_H -D_LCONV_C99
1271 lint := LINTFLAGS64 += -mn

1273 lint:
1274 @echo $(LINT.c) ... $(LDLIBS)
1275 @$(LINT.c) $(SRCS) $(LDLIBS)

1277 $(LINTLIB) := SRCS=$(LIBCDIR)/port/l1ib-lc
1278 $(LINTLIB) := CPPFLAGS += -D_MSE_INT_H
1279 $(LINTLIB) := LINTFLAGS64=-nvx -m64

1281 # object files that depend on inline template
1282 $(TIL:%=pics/%) := $(LIBCBASE)/threads/sparcv9.il
1283 $(IL:%=pics/%) := $(LIBCBASE)/fp/base.il
1284 $(QIL:%=pics/%) := $(LIBCDIR)/$(MACH)/fp/__quad.il
1285 $(CIL:%=pics/%) := $(LIBCBASE)/crt/muldiv64.il

1287 # include common libc targets
1288 include $(LIBCDIR)/Makefile.targ

1290 # We need to strip out all CTF and DOF data from the static library
1291 $(LIB_PIC) := DIR = pics
1292 $(LIB_PIC): pics $$ (PIC)
1293 $(BUILD.AR)
1294 $(MCS) -d -n .SUNW_ctf $$@ > /dev/null 2>&l
1295 $(MCS) -d -n .SUNW_dof $$@ > /dev/null 2>&l
1296 $(AR) -ts $$@ > /dev/null
1297 $(POST_PROCESS_A)

1299 # special cases
1300 #$(STRETS:%=pics/%) := crt/stret.s
1301 # $(AS) $(ASFLAGS) -DSTRET$(@F:stret%.o=) crt/stret.s -o $$@
1302 # $(POST_PROCESS_O)

1304 #crt/_rtbootld.s: crt/_rtboot.s crt/_rtld.c
1305 # $(CC) $(CPPFLAGS) -O -S -K pic crt/_rtld.c -o crt/_rtld.s
1306 # $(CAT) crt/_rtboot.s crt/_rtld.s > $$@
1307 # $(RM) crt/_rtld.s

1309 ASSYMDEP_OBJS= \
1310 __lwp_mutex_unlock.o \
1311 __stack_grow.o \
1312 asm_subr.o \
1313 setjmp.o

```

```
1314         smt_pause.o          \  
1315         tls_get_addr.o       \  
1316         unwind_frame.o      \  
1317         vforkx.o  
  
1319 $(ASSYMDEP_OBJS:%=pics/%) := CPPFLAGS += -I.  
1321 $(ASSYMDEP_OBJS:%=pics/%): assym.h  
  
1323 # assym.h build rules  
  
1325 assym.h := CFLAGS64 += -g  
  
1327 GENASSYM_C = $(LIBCDIR)/$(MACH)/genassym.c  
  
1329 genassym: $(GENASSYM_C)  
1330     $(NATIVECC) $(NATIVE_CFLAGS) -I$(LIBCBASE)/inc -I$(LIBCDIR)/inc \  
1331     $(CPPFLAGS.native) -o $@ $(GENASSYM_C)  
  
1333 OFFSETS = $(LIBCDIR)/$(MACH)/offsets.in  
  
1335 assym.h: $(OFFSETS) genassym  
1336     $(OFFSETS_CREATE) <$(OFFSETS) >$@  
1337     ./genassym >>$@  
  
1339 # derived C source and related explicit dependencies  
1340 $(LIBCDIR)/port/gen/new_list.c: $(LIBCDIR)/port/gen/errlist $(LIBCDIR)/port/gen/  
1341     cd $(LIBCDIR)/port/gen; pwd; $(AWK) -f errlist.awk < errlist  
  
1343 pics/new_list.o: $(LIBCDIR)/port/gen/new_list.c
```

new/usr/src/lib/libdtrace/sparc/Makefile

1

1096 Thu Oct 11 01:49:48 2018

new/usr/src/lib/libdtrace/sparc/Makefile

9884 cw(1) should use -fpic rather than -Kpic

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

```
26 ASFLAGS += -D_ASM $(AS_BIGPICFLAGS) -P
```

```
26 ASFLAGS += -D_ASM -K PIC -P
```

```
28 include ../Makefile.com
```

```
30 LINTFLAGS += -erroff=E_BAD_PTR_CAST_ALIGN
```

```
32 install yydebug: all $(ROOTLIBS) $(ROOTLINKS) $(ROOTLINT) \
```

```
33 $(ROOTDLIBS) $(ROOTDOBS)
```

new/usr/src/lib/libdtrace/sparcv9/Makefile

1

1158 Thu Oct 11 01:49:48 2018

new/usr/src/lib/libdtrace/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
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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 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
```

```
26 ASFLAGS += -D_ASM $(AS_BIGPICFLAGS) -P
```

```
26 ASFLAGS += -D_ASM -K PIC -P
```

```
28 include ../Makefile.com
```

```
29 include ../../Makefile.lib.64
```

```
31 CPPFLAGS += -D_ELF64
```

```
33 LINTFLAGS64 += -erroff=E_BAD_PTR_CAST_ALIGN
```

```
35 install yydebug: all $(ROOTLIBS64) $(ROOTLINKS64) $(ROOTLINT64) \
```

```
36 $(ROOTDLIBS) $(ROOTDOBS64)
```

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

1

```
*****
2011 Thu Oct 11 01:49:49 2018
new/usr/src/lib/libdtrace_jni/Makefile.com
9884 cw(1) should use -fpic rather than -Kpic
*****
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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24 #

26 LIBRARY = libdtrace_jni.a
27 VERS = .1

29 LIBSRCS = \
30 dtj_util.c \
31 dtj_jnitab.c \
32 dtj_error.c \
33 dtj_probe.c \
34 dtj_attr.c \
35 dtj_consume.c \
36 dtrace_jni.c

38 OBJECTS = $(MACHOBJS) $(LIBSRCS:%.c=%.o)

40 include ../../Makefile.lib

42 SRCS = $(LIBSRCS:%.c=../common/%.c)

44 SRCDIR = ../common

46 CPPFLAGS += -I../common -I.
47 CPPFLAGS += -I$(JAVA_ROOT)/include -I$(JAVA_ROOT)/include/solaris
48 CPPFLAGS += -I../java/native
49 CFLAGS += $(CCVERBOSE) $(C_BIGPICFLAGS)
50 CFLAGS64 += $(CCVERBOSE) $(C_BIGPICFLAGS64)
49 CFLAGS += $(CCVERBOSE) -K PIC
50 CFLAGS64 += $(CCVERBOSE) -K PIC

52 CERRWARN += -_gcc=-Wno-uninitialized

54 LDLIBS += -lc -luutil -ldtrace -lproc

56 LINTLIB =

58 LFLAGS = -t -v
```

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

2

```
60 ROOTDLIBDIR = $(ROOT)/usr/lib/dtrace_jni
61 ROOTDLIBDIR64 = $(ROOT)/usr/lib/dtrace_jni/64

63 ROOTDLIBS = $(DLIBSRCS:%=$(ROOTDLIBDIR)/%)

65 .KEEP_STATE:

67 all: $(DYNLIB)

69 lint: lintcheck

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

75 $(ROOTDLIBDIR):
76 $(INS.dir)

78 $(ROOTDLIBDIR64): $(ROOTDLIBDIR)
79 $(INS.dir)

81 $(ROOTDLIBDIR)/%.o: %.o
82 $(INS.file)

84 $(ROOTDLIBDIR64)/%.o: %.o
85 $(INS.file)

87 $(ROOTDLIBS): $(ROOTDLIBDIR)

89 $(ROOTDOBJ): $(ROOTDLIBDIR)

91 $(ROOTDOBJ64): $(ROOTDLIBDIR64)

93 include ../../Makefile.targ
```

new/usr/src/lib/libndmp/sparcv9/Makefile

1

1866 Thu Oct 11 01:49:49 2018

new/usr/src/lib/libndmp/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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33 # SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
34 # INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
35 # CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
36 # ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
37 # POSSIBILITY OF SUCH DAMAGE.
38 #
39 include ../Makefile.com
40 include $(SRC)/lib/Makefile.lib.64
41
42 sparcv9_C_PICFLAGS= $(sparcv9_C_BIGPICFLAGS)
43 sparcv9_C_PICFLAGS= -K PIC
44
45 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

new/usr/src/lib/libnsl/sparcv9/Makefile

1

```
*****
1271 Thu Oct 11 01:49:50 2018
new/usr/src/lib/libnsl/sparcv9/Makefile
9884 cw(1) should use -fpic rather than -Kpic
*****
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21 #
22 #
23 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"
27 #

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

30 # We do a blanket override of these here because it's simpler to compile
31 # the whole 64-bit library with PIC instead of "generically" compiling
32 # large parts of the 32-bit library with PIC unnecessarily.

34 sparcv9_C_PICFLAGS = $(sparcv9_C_BIGPICFLAGS)
36 sparcv9_C_PICFLAGS = -K PIC
37 sparcv9_CC_PICFLAGS = -KPIC

36 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

new/usr/src/lib/libresolv2/sparcv9/Makefile

1

1265 Thu Oct 11 01:49:50 2018

new/usr/src/lib/libresolv2/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
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24 #
25 # ident "%Z%M% %I% %E% SMI"
25 #

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

30 # With the addition of BIND 8.3.3, the symbol table for 64 bit went over
31 # the limit for Kpic, so we've added -KPIC here, for just the 64 bit
32 # library. This avoids compiling the 32-bit library with PIC unnecessarily.

34 sparcv9_C_PICFLAGS = $(sparcv9_C_BIGPICFLAGS)
35 sparcv9_C_PICFLAGS = -K PIC
36 sparcv9_CC_PICFLAGS = -KPIC

36 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

```

*****
2554 Thu Oct 11 01:49:50 2018
new/usr/src/lib/libtnfprobe/Makefile.com
9884 cw(1) should use -fpic rather than -Kpic
*****
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21 #
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23 #

25 LIBRARY=      libtnfprobe.a
26 VERS=         .1
27 OBJECTS.c=    tnf_buf.o \
28               trace_init.o \
29               trace_funcs.o \
30               debug_funcs.o \
31               probe_mem.o \
32               tnf_args.o \
33               tnf_trace.o \
34               probe_cntl.o

36 UFSODIR=      $(SRC)/uts/common/tnf
37 UFSOBS=       tnf_writer.o tnf_probe.o

39 OBJECTS.s=    $(MACH)_locks.o

41 OBJECTS=      $(OBJECTS.c) $(UFSOBS) $(OBJECTS.s)

43 include ../../Makefile.lib

45 # We omit $(OBJECTS.s:%.o=%.s) in the next line, because lint no like
46 SRCS= $(OBJECTS.c:%.o=../../%.c) $(UFSOBS:%.o=$(UFSODIR)/%.c)

48 LIBS=         $(DYNLIB)

50 DYNFLGS +=    $(ZINTERPOSE)

52 HDRS=         com.h writer.h probe.h
53 ROOTHDRDIR=   $(ROOT)/usr/include/tnf
54 ROOTHDRS=     $(HDRS:%=$(ROOTHDRDIR)/%)
55 CHECKHDRS=    $(HDRS:%.h=%.check)
56 $(ROOTHDRS) := FILEMODE = 0644
57 CHECKHDRS =   $(HDRS:%.h=%.check)

59 # Include .. first to pick up tnf_trace.h in current dir, Include UFSODIR to
60 # pick up tnf_types.h
61 CPPFLAGS +=   -I.. -I$(UFSODIR) -D_REENTRANT -D_TNF_LIBRARY

```

```

63 LINTFLAGS +=  -y

65 CERRWARN +=   -_gcc=-Wno-unused-variable
66 CERRWARN +=   -_gcc=-Wno-parentheses
67 CERRWARN +=   -_gcc=-Wno-uninitialized

69 $(ROOTHDRS) := FILEMODE = 644

71 LDLIBS += -lc

73 .KEEP_STATE:

75 all: $(LIBS)

77 install_h: $(ROOTHDRDIR) $(ROOTHDRS)

79 lint:
80     $(LINT.c) $(SRCS)

82 check: $(CHECKHDRS)

84 $(ROOTLIBDIR) $(ROOTHDRDIR):
85     $(INS.dir)

87 $(ROOTHDRDIR)/% : %
88     $(INS.file)

90 #ASFLAGS=      $(AS_PICFLAGS) -P -D_SYS_SYS_S -D_LOCORE -D_ASM -DPIC -DLOCORE $
91 #ASFLAGS=      -K pic -P -D_SYS_SYS_S -D_LOCORE -D_ASM -DPIC -DLOCORE $(CPPFLAG
92 BUILD.s=       $(AS) $(ASFLAGS) $< -o $@

94 objs/%.o pics/%.o: ../%.s
95     $(COMPILE.s) -o $@ $<
96     $(POST_PROCESS_O)

98 pics/%.o objs/%.o: ../%.c
99     $(COMPILE.c) -o $@ $<
100    $(POST_PROCESS_O)

102 pics/%.o objs/%.o: $(UFSODIR)/%.c
103    $(COMPILE.c) -o $@ $<
104    $(POST_PROCESS_O)

106 include ../../Makefile.targ

```

new/usr/src/lib/libzfs/sparcv9/Makefile

1

1065 Thu Oct 11 01:49:51 2018

new/usr/src/lib/libzfs/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

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

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

30 sparcv9_C_PICFLAGS= $(sparcv9_C_BIGPICFLAGS)
31 sparcv9_C_PICFLAGS= -K PIC

32 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

new/usr/src/lib/libzfs_core/sparcv9/Makefile

1

1065 Thu Oct 11 01:49:51 2018

new/usr/src/lib/libzfs_core/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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25 #
27 include ../Makefile.com
28 include ../../Makefile.lib.64
30 sparcv9_C_PICFLAGS= $(sparcv9_C_BIGPICFLAGS)
30 sparcv9_C_PICFLAGS= -K PIC
32 install: all $(ROOTLIBS64) $(ROOTLINKS64)
```

new/usr/src/lib/smbstrv/libmlsvc/sparc/Makefile

1

1139 Thu Oct 11 01:49:52 2018

new/usr/src/lib/smbstrv/libmlsvc/sparc/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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23 #

25 include ../Makefile.com

27 # With compiling with gcc, the symbol table goes over
28 # the limit for Kpic, so we add -KPIC here.
29 $(__GNUC)sparc_C_PICFLAGS = $(sparc_C_BIGPICFLAGS)
30 $(__GNUC)sparc_C_PICFLAGS = -K PIC
31 $(__GNUC)sparc_CC_PICFLAGS = -KPIC

31 DYNFLAGS += -R/usr/lib/smbstrv

33 install: all $(ROOTLIBS) $(ROOTLINKS) $(ROOTLINT)
```

new/usr/src/lib/smbstrv/libmlsvc/sparcv9/Makefile

1

1372 Thu Oct 11 01:49:52 2018

new/usr/src/lib/smbstrv/libmlsvc/sparcv9/Makefile

9884 cw(1) should use -fpic rather than -Kpic

```
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20 #
21 #
22 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
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24 #
25 # ident "%Z%M% %I% %E% SMI"
26 #

26 MACH_LDLIBS += -L$(ROOT)/usr/lib/smbstrv/$(MACH64)

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

31 # With the addition of BIND 8.3.3, the symbol table for 64 bit went over
32 # the limit for Kpic, so we add -KPIC here, for just the 64 bit SPARC
33 # library. This avoids compiling the 32-bit library with PIC unnecessarily.
34 sparcv9_C_PICFLAGS = $(sparcv9_C_BIGPICFLAGS)
35 sparcv9_C_PICFLAGS = -K PIC
36 sparcv9_CC_PICFLAGS = -KPIC

36 DYNFLAGS += -R/usr/lib/smbstrv/$(MACH64)

38 install: all $(ROOTLIBS64) $(ROOTLINKS64) $(ROOTLINT64)
```

new/usr/src/lib/smbdrv/libsmbrp/sparcv9/Makefile

1

```
*****
1326 Thu Oct 11 01:49:53 2018
new/usr/src/lib/smbdrv/libsmbrp/sparcv9/Makefile
9884 cw(1) should use -fpic rather than -Kpic
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26 include ../Makefile.com
27 include ../../../Makefile.lib.64

29 # With the addition of BIND 8.3.3, the symbol table for 64 bit went over
30 # the limit for Kpic, so we add -KPIC here, for just the 64 bit SPARC
31 # library. This avoids compiling the 32-bit library with PIC unnecessarily.
32 sparcv9_C_PICFLAGS = $(sparcv9_C_BIGPICFLAGS)
32 sparcv9_C_PICFLAGS = -K PIC
33 sparcv9_CC_PICFLAGS = -KPIC

34 $(ROOTLIBDIR64):
35     $(INS.dir)

37 install: all $(ROOTLIBDIR64) $(ROOTLIBS64) $(ROOTLINKS64) $(ROOTLINT64)
```

```

*****
40728 Thu Oct 11 01:49:53 2018
new/usr/src/tools/cw/cw.c
9884 cw(1) should use -fpic rather than -Kpic
*****

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23 /*
24 * Copyright 2018, Richard Lowe.
25 */
26 /*
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29 */

31 /*
32 * Wrapper for the GNU C compiler to make it accept the Sun C compiler
33 * arguments where possible.
34 *
35 * Since the translation is inexact, this is something of a work-in-progress.
36 *
37 */

39 /* If you modify this file, you must increment CW_VERSION */
40 #define CW_VERSION "3.0"

42 /*
43 * -## Verbose mode
44 * -### Show compiler commands built by driver, no compilation
45 * -A<name[(tokens)]> Preprocessor predicate assertion
46 * -B<[static|dynamic]> Specify dynamic or static binding
47 * -C Prevent preprocessor from removing comments
48 * -c Compile only - produce .o files, suppress linking
49 * -cg92 Alias for -xtarget=ss1000
50 * -D<name=[token]> Associate name with token as if by #define
51 * -d[y|n] dynamic [-dy] or static [-dn] option to linker
52 * -E Compile source through preprocessor only, output to stdout
53 * -eroff=<t> Suppress warnings specified by tags t(%none, %all, <tag list>)
54 * -errtags=<a> Display messages with tags a(no, yes)
55 * -errwarn=<t> Treats warnings specified by tags t(%none, %all, <tag list>)
56 * as errors
57 * -fast Optimize using a selection of options
58 * -fd Report old-style function definitions and declarations
59 * -fnonstd Initialize floating-point hardware to non-standard preferences
60 * -fns[=<yes|no>] Select non-standard floating point mode
61 * -fprecision=<p> Set FP rounding precision mode p(single, double, extended)

```

```

62 * -fround=<r> Select the IEEE rounding mode in effect at startup
63 * -fsimple[=<n>] Select floating-point optimization preferences <n>
64 * -fsingle Use single-precision arithmetic (-Xt and -Xs modes only)
65 * -ftrap=<t> Select floating-point trapping mode in effect at startup
66 * -fstore force floating pt. values to target precision on assignment
67 * -G Build a dynamic shared library
68 * -g Compile for debugging
69 * -H Print path name of each file included during compilation
70 * -h <name> Assign <name> to generated dynamic shared library
71 * -I<dir> Add <dir> to preprocessor #include file search path
72 * -i Passed to linker to ignore any LD_LIBRARY_PATH setting
73 * -keeptmp Keep temporary files created during compilation
74 * -KPIC Compile position independent code with 32-bit addresses
75 * -Kpic Compile position independent code
76 * -L<dir> Pass to linker to add <dir> to the library search path
77 * -l<name> Link with library lib<name>.a or lib<name>.so
78 * -mc Remove duplicate strings from .comment section of output files
79 * -mr Remove all strings from .comment section of output files
80 * -mt Specify options needed when compiling multi-threaded code
81 * -native Find available processor, generate code accordingly
82 * -nofstore Do not force floating pt. values to target precision
83 * -norunpath Do not build in a runtime path for shared libraries
84 * -O Use default optimization level (-xO2 or -xO3. Check man page.)
85 * -o <outputfile> Set name of output file to <outputfile>
86 * -P Compile source through preprocessor only, output to .i file
87 * -p Compile for profiling with prof
88 * -Q[y|n] Emit/don't emit identification info to output file
89 * -R<dir[:dir]> Build runtime search path list into executable
90 * -S Compile and only generate assembly code (.s)
91 * -s Strip symbol table from the executable file
92 * -t Turn off duplicate symbol warnings when linking
93 * -U<name> Delete initial definition of preprocessor symbol <name>
94 * -V Report version number of each compilation phase
95 * -v Do stricter semantic checking
96 * -W<c>,<arg> Pass <arg> to specified component <c> (a,l,m,p,0,2,h,i,u)
97 * -w Suppress compiler warning messages
98 * -Xa Compile assuming ANSI C conformance, allow K & R extensions
99 * (default mode)
100 * -Xs Compile assuming (pre-ANSI) K & R C style code
101 * -Xt Compile assuming K & R conformance, allow ANSI C
102 * -xarch=<a> Specify target architecture instruction set
103 * -xbuiltin[=<b>] When profitable inline, or substitute intrinsic functions
104 * for system functions, b={%all,%none}
105 * -xCC Accept C++ style comments
106 * -xchip=<c> Specify the target processor for use by the optimizer
107 * -xcode=<c> Generate different code for forming addresses
108 * -xcrossfile[=<n>] Enable optimization and inlining across source files,
109 * n={0|1}
110 * -xe Perform only syntax/semantic checking, no code generation
111 * -xF Compile for later mapfile reordering or unused section
112 * elimination
113 * -xhelp=<f> Display on-line help information f(flags, readme, errors)
114 * -xildoff Cancel -xildon
115 * -xildon Enable use of the incremental linker, ild
116 * -xinline[=<a>,...,<a>] Attempt inlining of specified user routines,
117 * <a>={%auto,%func,%no%func}
118 * -xlibmieee Force IEEE 754 return values for math routines in
119 * exceptional cases
120 * -xlibmil Inline selected libm math routines for optimization
121 * -xlic_lib=sunperf Link in the Sun supplied performance libraries
122 * -xlicinfo Show license server information
123 * -xmaxopt=[off,1,2,3,4,5] maximum optimization level allowed on #pragma opt
124 * -xO<n> Generate optimized code (n={1|2|3|4|5})
125 * -xP Print prototypes for function definitions

```

```

126 * -xprofile=<p> Collect data for a profile or use a profile to optimize
127 * <p>={{collect,use}[:<path>],tcov}
128 * -xregs=<r> Control register allocation
129 * -xs Allow debugging without object (.o) files
130 * -xsb Compile for use with the WorkShop source browser
131 * -xsbfast Generate only WorkShop source browser info, no compilation
132 * -xsfpconst Represent unsuffixed floating point constants as single
133 * precision
134 * -xspace Do not do optimizations that increase code size
135 * -xstrconst Place string literals into read-only data segment
136 * -xtarget=<t> Specify target system for optimization
137 * -xtemp=<dir> Set directory for temporary files to <dir>
138 * -xtime Report the execution time for each compilation phase
139 * -xunroll=n Enable unrolling loops n times where possible
140 * -Y<c>,<dir> Specify <dir> for location of component <c> (a,l,m,p,0,h,i,u)
141 * -YA,<dir> Change default directory searched for components
142 * -YI,<dir> Change default directory searched for include files
143 * -YP,<dir> Change default directory for finding libraries files
144 * -YS,<dir> Change default directory for startup object files
145 */

147 /*
148 * Translation table:
149 */
150 /*
151 * -# -v
152 * -### error
153 * -A<name[{tokens}]> pass-thru
154 * -B<[static|dynamic]> pass-thru (syntax error for anything else)
155 * -C pass-thru
156 * -c pass-thru
157 * -cg92 -m32 -mcpu=v8 -mtune=supersparc (SPARC only)
158 * -D<name[=token]> pass-thru
159 * -dy or -dn -Wl,-dy or -Wl,-dn
160 * -E pass-thru
161 * -erroff=E_EMPTY_TRANSLATION_UNIT ignore
162 * -errtags=%all -Wall
163 * -errwarn=%all -Werror else -Wno-error
164 * -fast error
165 * -fd error
166 * -fnonstd error
167 * -fns[=<yes|no>] error
168 * -fprecision=<p> error
169 * -fround=<r> error
170 * -fsimple[=<n>] error
171 * -fsingle[=<n>] error
172 * -ftrap=<t> error
173 * -fstore error
174 * -G pass-thru
175 * -g pass-thru
176 * -H pass-thru
177 * -h <name> pass-thru
178 * -I<dir> pass-thru
179 * -i pass-thru
180 * -keeptmp -save-temps
181 * -KPIC -fPIC
182 * -Kpic -fpic
183 * -L<dir> pass-thru
184 * -l<name> pass-thru
185 * -mc error
186 * -mr error
187 * -mr,"string" error
188 * -mt -D_REENTRANT
189 * -native error
190 * -nofstore error
191 * -nolib -ndefaultlibs

```

```

190 * -norunpath ignore
191 * -O -O1 (Check the man page to be certain)
192 * -o <outputfile> pass-thru
193 * -p -E -o filename.i (or error)
194 * -p pass-thru
195 * -Q[y|n] error
196 * -R<dir[:dir]> pass-thru
197 * -S pass-thru
198 * -s -Wl,-s
199 * -t -Wl,-t
200 * -U<name> pass-thru
201 * -V --version
202 * -v -Wall
203 * -Wa,<arg> pass-thru
204 * -Wp,<arg> pass-thru except -xc99=<a>
205 * -Wl,<arg> pass-thru
206 * -W{m,0,2,h,i,u} error/ignore
207 * -xmodel=kernel -ffreestanding -mcmmodel=kernel -mno-red-zone
208 * -Wu,-save_args -msave-args
209 * -w pass-thru
210 * -Xa -std=iso9899:199409 or -ansi
211 * -Xt error
212 * -Xs -traditional -std=c89
213 * -xarch=<a> table
214 * -xbuiltin[=<b>] -fbuiltin (-fno-builtin otherwise)
215 * -xCC ignore
216 * -xchip=<c> table
217 * -xcode=<c> table
218 * -xdebugformat=<format> ignore (always use dwarf-2 for gcc)
219 * -xcrossfile[=<n>] ignore
220 * -xe error
221 * -xF error
222 * -xhelp=<f> error
223 * -xildoff ignore
224 * -xildon ignore
225 * -xinline ignore
226 * -xlibmieee error
227 * -xlibmil error
228 * -xlic_lib=sunperf error
229 * -xmaxopt[...] error
230 * -xO<n> -O<n>
231 * -xP error
232 * -xprofile=<p> error
233 * -xregs=<r> table
234 * -xs error
235 * -xsb error
236 * -xsbfast error
237 * -xsfpconst error
238 * -xspace ignore (-not -Os)
239 * -xstrconst ignore
240 * -xtarget=<t> table
241 * -xtemp=<dir> error
242 * -xtime error
243 * -xtransition -Wtransition
244 * -xunroll=n error
245 * -W0,-xdbggen=no%usedonly -fno-eliminate-unused-debug-symbols
246 * -fno-eliminate-unused-debug-types
247 * -Y<c>,<dir> error
248 * -YA,<dir> error
249 * -YI,<dir> -nostdinc -I<dir>
250 * -YP,<dir> error
251 * -YS,<dir> error
252 */

254 #include <ctype.h>
255 #include <err.h>

```

```

256 #include <errno.h>
257 #include <fcntl.h>
258 #include <getopt.h>
259 #include <stdio.h>
260 #include <stdlib.h>
261 #include <string.h>
262 #include <unistd.h>

264 #include <sys/param.h>
265 #include <sys/stat.h>
266 #include <sys/types.h>
267 #include <sys/utsname.h>
268 #include <sys/wait.h>

270 #define CW_F_CXX      0x01
271 #define CW_F_SHADOW  0x02
272 #define CW_F_EXEC    0x04
273 #define CW_F_ECHO    0x08
274 #define CW_F_XLATE   0x10
275 #define CW_F_PROG    0x20

277 typedef enum cw_op {
278     CW_O_NONE = 0,
279     CW_O_PREPROCESS,
280     CW_O_COMPILE,
281     CW_O_LINK
282 } cw_op_t;
283 unchanged portion omitted

562 static void
563 do_gcc(cw_ictx_t *ctx)
564 {
565     int c;
566     int nolibc = 0;
567     int pic = 0, nolibc = 0;
568     int in_output = 0, seen_o = 0, c_files = 0;
569     cw_op_t op = CW_O_LINK;
570     char *model = NULL;
571     char *nameflag;
572     int mflag = 0;

573     if (ctx->i_flags & CW_F_PROG) {
574         newae(ctx->i_ae, "--version");
575         return;
576     }

578     newae(ctx->i_ae, "-fident");
579     newae(ctx->i_ae, "-finline");
580     newae(ctx->i_ae, "-fno-inline-functions");
581     newae(ctx->i_ae, "-fno-builtin");
582     newae(ctx->i_ae, "-fno-asm");
583     newae(ctx->i_ae, "-fdiagnostics-show-option");
584     newae(ctx->i_ae, "-nodefaultlibs");

586 #if defined(__sparc)
587     /*
588      * The SPARC ldd and std instructions require 8-byte alignment of
589      * their address operand. gcc correctly uses them only when the
590      * ABI requires 8-byte alignment; unfortunately we have a number of
591      * pieces of buggy code that doesn't conform to the ABI. This
592      * flag makes gcc work more like Studio with -xmalign=4.
593      */
594     newae(ctx->i_ae, "-mno-integer-ldd-std");
595 #endif

597     /*

```

```

598     * This is needed because 'u' is defined
599     * under a conditional on 'sun'. Should
600     * probably just remove the conditional,
601     * or make it be dependent on '__sun'.
602     *
603     * -Dunix is also missing in enhanced ANSI mode
604     */
605     newae(ctx->i_ae, "-D__sun");

607     if (asprintf(&nameflag, "-_%s=", ctx->i_compiler->c_name) == -1)
608         nomem();

610     /*
611     * Walk the argument list, translating as we go ..
612     */
613     while (--ctx->i_oldargc > 0) {
614         char *arg = ++ctx->i_oldargv;
615         size_t arglen = strlen(arg);

617         if (*arg == '-') {
618             arglen--;
619         } else {
620             /*
621              * Discard inline files that gcc doesn't grok
622              */
623             if (!in_output && arglen > 3 &&
624                 strcmp(arg + arglen - 3, ".il") == 0)
625                 continue;

627             if (!in_output && arglen > 2 &&
628                 arg[arglen - 2] == '.' &&
629                 (arg[arglen - 1] == 'S' || arg[arglen - 1] == 's' ||
630                  arg[arglen - 1] == 'c' || arg[arglen - 1] == 'i'))
631                 c_files++;

633             /*
634              * Otherwise, filenames and partial arguments
635              * are passed through for gcc to chew on. However,
636              * output is always discarded for the secondary
637              * compiler.
638              */
639             if ((ctx->i_flags & CW_F_SHADOW) && in_output)
640                 newae(ctx->i_ae, ctx->i_discard);
641             else
642                 newae(ctx->i_ae, arg);
643             in_output = 0;
644             continue;
645         }

647         if (ctx->i_flags & CW_F_CXX) {
648             if (strncmp(arg, "-g++=", 6) == 0) {
649                 newae(ctx->i_ae, strchr(arg, '=') + 1);
650                 continue;
651             }
652             if (strncmp(arg, "-compat=", 8) == 0) {
653                 /* discard -compat=4 and -compat=5 */
654                 continue;
655             }
656             if (strcmp(arg, "-Qoption") == 0) {
657                 /* discard -Qoption and its two arguments */
658                 if (ctx->i_oldargc < 3)
659                     error(arg);
660                 ctx->i_oldargc -= 2;
661                 ctx->i_oldargv += 2;
662                 continue;
663             }

```

```

664     if (strcmp(arg, "-xwe") == 0) {
665         /* turn warnings into errors */
666         newae(ctx->i_ae, "-Werror");
667         continue;
668     }
669     if (strcmp(arg, "-norunpath") == 0) {
670         /* gcc has no corresponding option */
671         continue;
672     }
673     if (strcmp(arg, "-nolibc") == 0) {
674         /* -nolibc is on by default */
675         nolibc = 1;
676         continue;
677     }
678     #if defined(__sparc)
679     if (strcmp(arg, "-cg92") == 0) {
680         mflag |= xlate_xtb(ctx->i_ae, "v8");
681         xlate(ctx->i_ae, "super", xchip_tbl);
682         continue;
683     }
684     #endif /* __sparc */
685 }

687     switch ((c = arg[1])) {
688     case '_':
689         if ((strcmp(arg, nameflag, strlen(nameflag)) == 0) ||
690             (strcmp(arg, "_gcc=", 6) == 0) ||
691             (strcmp(arg, "_gnu=", 6) == 0)) {
692             newae(ctx->i_ae, strchr(arg, '=') + 1);
693         }
694         break;
695     case '#':
696         if (arglen == 1) {
697             newae(ctx->i_ae, "-v");
698             break;
699         }
700         error(arg);
701         break;
702     case 'f':
703         if ((strcmp(arg, "-fpic") == 0) ||
704             (strcmp(arg, "-fPIC") == 0)) {
705             newae(ctx->i_ae, arg);
706             break;
707         }
708         error(arg);
709         break;
710     #endif /* !codereview */
711     case 'g':
712         newae(ctx->i_ae, "-gdwarf-2");
713         break;
714     case 'E':
715         if (arglen == 1) {
716             newae(ctx->i_ae, "-xc");
717             newae(ctx->i_ae, arg);
718             op = CW_O_PREPROCESS;
719             nolibc = 1;
720             break;
721         }
722         error(arg);
723         break;
724     case 'c':
725     case 'S':
726         if (arglen == 1) {
727             op = CW_O_COMPILE;
728             nolibc = 1;
729         }

```

```

730         /* FALLTHROUGH */
731     case 'C':
732     case 'H':
733     case 'p':
734         if (arglen == 1) {
735             newae(ctx->i_ae, arg);
736             break;
737         }
738         error(arg);
739         break;
740     case 'A':
741     case 'h':
742     case 'I':
743     case 'i':
744     case 'L':
745     case 'l':
746     case 'R':
747     case 'U':
748     case 'u':
749     case 'w':
750         newae(ctx->i_ae, arg);
751         break;
752     case 'o':
753         seen_o = 1;
754         if (arglen == 1) {
755             in_output = 1;
756             newae(ctx->i_ae, arg);
757         } else if (ctx->i_flags & CW_F_SHADOW) {
758             newae(ctx->i_ae, "-o");
759             newae(ctx->i_ae, ctx->i_discard);
760         } else {
761             newae(ctx->i_ae, arg);
762         }
763         break;
764     case 'D':
765         newae(ctx->i_ae, arg);
766         /*
767          * XXX Clearly a hack ... do we need _KADB too?
768          */
769         if (strcmp(arg, "-D_KERNEL") == 0 ||
770             strcmp(arg, "-D_BOOT") == 0)
771             newae(ctx->i_ae, "-ffreestanding");
772         break;
773     case 'd':
774         if (arglen == 2) {
775             if (strcmp(arg, "-dy") == 0) {
776                 newae(ctx->i_ae, "-WL,-dy");
777                 break;
778             }
779             if (strcmp(arg, "-dn") == 0) {
780                 newae(ctx->i_ae, "-WL,-dn");
781                 break;
782             }
783         }
784         if (strcmp(arg, "-dalign") == 0) {
785             /*
786              * -dalign forces alignment in some cases;
787              * gcc does not need any flag to do this.
788              */
789             break;
790         }
791         error(arg);
792         break;
793     case 'e':
794         if (strcmp(arg,
795             "-erroff=E_EMPTY_TRANSLATION_UNIT") == 0) {

```

```

796     /*
797     * Accept but ignore this -- gcc doesn't
798     * seem to complain about empty translation
799     * units
800     */
801     break;
802 }
803 /* XX64 -- ignore all -erroff= options, for now */
804 if (strncmp(arg, "-erroff=", 8) == 0)
805     break;
806 if (strcmp(arg, "-errtags=yes") == 0) {
807     warnings(ctx->i_ae);
808     break;
809 }
810 if (strcmp(arg, "-errwarn=all") == 0) {
811     newae(ctx->i_ae, "-Werror");
812     break;
813 }
814 error(arg);
815 break;
816 case 'G':
817     newae(ctx->i_ae, "--shared");
818     nolibc = 1;
819     break;
820 case 'k':
821     if (strcmp(arg, "-keeptmp") == 0) {
822         newae(ctx->i_ae, "-save-temps");
823         break;
824     }
825     error(arg);
826     break;
827 case 'K':
828     if (arglen == 1) {
829         if ((arg = *++ctx->i_oldargv) == NULL ||
830             *arg == '\0')
831             error("-K");
832         ctx->i_oldargc--;
833     } else {
834         arg += 2;
835     }
836     if (strcmp(arg, "pic") == 0) {
837         newae(ctx->i_ae, "-fpic");
838         pic = 1;
839         break;
840     }
841     if (strcmp(arg, "PIC") == 0) {
842         newae(ctx->i_ae, "-fPIC");
843         pic = 1;
844         break;
845     }
846     error("-K");
847     break;
848 case 'm':
849     if (strcmp(arg, "-mt") == 0) {
850         newae(ctx->i_ae, "-D_REENTRANT");
851         break;
852     }
853     if (strcmp(arg, "-m64") == 0) {
854         newae(ctx->i_ae, "-m64");
855     }
856     newae(ctx->i_ae, "-mtune=opteron");
857     mflag |= M64;
858     break;
859 }
860 if (strcmp(arg, "-m32") == 0) {

```

```

841         newae(ctx->i_ae, "-m32");
842         mflag |= M32;
843         break;
844     }
845     error(arg);
846     break;
847 case 'B': /* linker options */
848 case 'M':
849 case 'z':
850     {
851         char *opt;
852         size_t len;
853         char *s;
854
855         if (arglen == 1) {
856             opt = *++ctx->i_oldargv;
857             if (opt == NULL || *opt == '\0')
858                 error(arg);
859             ctx->i_oldargc--;
860         } else {
861             opt = arg + 2;
862         }
863         len = strlen(opt) + 7;
864         if ((s = malloc(len)) == NULL)
865             nomem();
866         (void) snprintf(s, len, "-Wl,-%c%s", c, opt);
867         newae(ctx->i_ae, s);
868         free(s);
869     }
870     break;
871 case 'O':
872     if (arglen == 1) {
873         newae(ctx->i_ae, "-O");
874         break;
875     }
876     error(arg);
877     break;
878 case 'P':
879     /*
880     * We could do '-E -o filename.i', but that's hard,
881     * and we don't need it for the case that's triggering
882     * this addition. We'll require the user to specify
883     * -o in the Makefile. If they don't they'll find out
884     * in a hurry.
885     */
886     newae(ctx->i_ae, "-E");
887     op = CW_O_PREPROCESS;
888     nolibc = 1;
889     break;
890 case 's':
891     if (arglen == 1) {
892         newae(ctx->i_ae, "-Wl,-s");
893         break;
894     }
895     error(arg);
896     break;
897 case 't':
898     if (arglen == 1) {
899         newae(ctx->i_ae, "-Wl,-t");
900         break;
901     }
902     error(arg);
903     break;
904 case 'V':
905     if (arglen == 1) {
906         ctx->i_flags &= ~CW_F_ECHO;

```

```

907         newae(ctx->i_ae, "--version");
908         break;
909     }
910     error(arg);
911     break;
912 case 'v':
913     if (arglen == 1) {
914         warnings(ctx->i_ae);
915         break;
916     }
917     error(arg);
918     break;
919 case 'W':
920     if (strcmp(arg, "-Wp,-xc99", 9) == 0) {
921         /*
922          * gcc's preprocessor will accept c99
923          * regardless, so accept and ignore.
924          */
925         break;
926     }
927     if (strcmp(arg, "-Wa,", 4) == 0 ||
928         strcmp(arg, "-Wp,", 4) == 0 ||
929         strcmp(arg, "-Wl,", 4) == 0) {
930         newae(ctx->i_ae, arg);
931         break;
932     }
933     if (strcmp(arg, "-W0,-noglobal") == 0 ||
934         strcmp(arg, "-W0,-xglobalstatic") == 0) {
935         /*
936          * gcc doesn't prefix local symbols
937          * in debug mode, so this is not needed.
938          */
939         break;
940     }
941     if (strcmp(arg, "-W0,-lt") == 0) {
942         /*
943          * Generate tests at the top of loops.
944          * There is no direct gcc equivalent, ignore.
945          */
946         break;
947     }
948     if (strcmp(arg, "-W0,-xdbggen=no%usedonly") == 0) {
949         newae(ctx->i_ae,
950             "-fno-eliminate-unused-debug-symbols");
951         newae(ctx->i_ae,
952             "-fno-eliminate-unused-debug-types");
953         break;
954     }
955     if (strcmp(arg, "-W2,-xwrap_int") == 0) {
956         /*
957          * Use the legacy behaviour (pre-SS11)
958          * for integer wrapping.
959          * gcc does not need this.
960          */
961         break;
962     }
963     if (strcmp(arg, "-Wd,-xsafe=unboundSYM") == 0) {
964         /*
965          * Prevents optimizing away checks for
966          * unbound weak symbol addresses. gcc does
967          * not do this, so it's not needed.
968          */
969         break;
970     }
971     if (strcmp(arg, "-Wc,-xcode=", 11) == 0) {
972         xlate(ctx->i_ae, arg + 11, xcode_tbl);

```

```

873         if (strcmp(arg + 11, "pic", 3) == 0)
874             pic = 1;
875         break;
876     }
877     if (strcmp(arg, "-Wc,-Qiselect", 13) == 0) {
878         /*
879          * Prevents insertion of register symbols.
880          * gcc doesn't do this, so ignore it.
881          */
882         break;
883     }
884     if (strcmp(arg, "-Wc,-Qassembler-ounrefsym=0") == 0) {
885         /*
886          * Prevents optimizing away of static variables.
887          * gcc does not do this, so it's not needed.
888          */
889         break;
890     }
891     #if defined(__x86)
892     if (strcmp(arg, "-Wu,-save_args") == 0) {
893         newae(ctx->i_ae, "-msave-args");
894         break;
895     }
896     #endif /* __x86 */
897     error(arg);
898     break;
899 case 'X':
900     if (strcmp(arg, "-Xa") == 0 ||
901         strcmp(arg, "-Xt") == 0) {
902         Xamode(ctx->i_ae);
903         break;
904     }
905     if (strcmp(arg, "-Xs") == 0) {
906         Xsmode(ctx->i_ae);
907         break;
908     }
909     error(arg);
910     break;
911 case 'x':
912     if (arglen == 1)
913         error(arg);
914     switch (arg[2]) {
915     case 'a':
916         if (strcmp(arg, "-xarch=", 7) == 0) {
917             mflag |= xlate_xtb(ctx->i_ae, arg + 7);
918             break;
919         }
920         error(arg);
921         break;
922     case 'b':
923         if (strcmp(arg, "-xbuiltin=", 10) == 0) {
924             if (strcmp(arg + 10, "%all"))
925                 newae(ctx->i_ae, "-fbuiltin");
926             break;
927         }
928         error(arg);
929         break;
930     case 'c':
931         /* Accept C++ style comments -- ignore */
932         if (strcmp(arg, "-xCC") == 0)
933             break;
934         error(arg);
935         break;
936     case 'c':
937         if (strcmp(arg, "-xc99=%all", 10) == 0) {
938             newae(ctx->i_ae, "-std=gnu99");

```

```

1037         break;
1038     }
1039     if (strncmp(arg, "-xc99=%none", 11) == 0) {
1040         newae(ctx->i_ae, "-std=gnu89");
1041         break;
1042     }
1043     if (strncmp(arg, "-xchip=", 7) == 0) {
1044         xlate(ctx->i_ae, arg + 7, xchip_tbl);
1045         break;
1046     }
1047     if (strncmp(arg, "-xcode=", 7) == 0) {
1048         xlate(ctx->i_ae, arg + 7, xcode_tbl);
1049         if (strncmp(arg + 7, "pic", 3) == 0)
1050             pic = 1;
1051         break;
1052     }
1053     if (strncmp(arg, "-xcrossfile", 11) == 0)
1054         break;
1055     error(arg);
1056     break;
1057 case 'd':
1058     if (strncmp(arg, "-xdebugformat=", 14) == 0)
1059         break;
1060     error(arg);
1061     break;
1062 case 'F':
1063     /*
1064     * Compile for mapfile reordering, or unused
1065     * section elimination, syntax can be -xF or
1066     * more complex, like -xF=%all -- ignore.
1067     */
1068     if (strncmp(arg, "-xF", 3) == 0)
1069         break;
1070     error(arg);
1071     break;
1072 case 'i':
1073     if (strncmp(arg, "-xinline", 8) == 0)
1074         /* No inlining; ignore */
1075         break;
1076     if (strcmp(arg, "-xildon") == 0 ||
1077         strcmp(arg, "-xildoff") == 0)
1078         /* No incremental linking; ignore */
1079         break;
1080     error(arg);
1081     break;
1082 #if defined(__x86)
1083 case 'm':
1084     if (strcmp(arg, "-xmodel=kernel") == 0) {
1085         newae(ctx->i_ae, "-ffreestanding");
1086         newae(ctx->i_ae, "-mno-red-zone");
1087         model = "-mcmmodel=kernel";
1088         nolibc = 1;
1089         break;
1090     }
1091     error(arg);
1092     break;
1093 #endif /* __x86 */
1094 case 'O':
1095     if (strncmp(arg, "-xO", 3) == 0) {
1096         size_t len = strlen(arg);
1097         char *s = NULL;
1098         int c = *(arg + 3);
1099         int level;
1100
1101         if (len != 4 || !isdigit(c))
1102             error(arg);

```

```

1102         level = atoi(arg + 3);
1103         if (level > 5)
1104             error(arg);
1105         if (level >= 2) {
1106             /*
1107             * For gcc-3.4.x at -O2 we
1108             * need to disable optimizations
1109             * that break ON.
1110             */
1111             optim_disable(ctx->i_ae, level);
1112             /*
1113             * limit -xO3 to -O2 as well.
1114             */
1115             level = 2;
1116         }
1117         if (asprintf(&s, "-O%d", level) == -1)
1118             nomem();
1119         newae(ctx->i_ae, s);
1120         free(s);
1121         break;
1122     }
1123     error(arg);
1124     break;
1125 case 'r':
1126     if (strncmp(arg, "-xregs=", 7) == 0) {
1127         xlate(ctx->i_ae, arg + 7, xregs_tbl);
1128         break;
1129     }
1130     error(arg);
1131     break;
1132 case 's':
1133     if (strcmp(arg, "-xs") == 0 ||
1134         strcmp(arg, "-xspace") == 0 ||
1135         strcmp(arg, "-xstrconst") == 0)
1136         break;
1137     error(arg);
1138     break;
1139 case 't':
1140     if (strncmp(arg, "-xtarget=", 9) == 0) {
1141         xlate(ctx->i_ae, arg + 9, xtarget_tbl);
1142         break;
1143     }
1144     error(arg);
1145     break;
1146 case 'e':
1147 case 'h':
1148 case 'l':
1149 default:
1150     error(arg);
1151     break;
1152 }
1153 break;
1154 case 'Y':
1155     if (arglen == 1) {
1156         if ((arg = **++ctx->i_oldargv) == NULL ||
1157             *arg == '\0')
1158             error("-Y");
1159         ctx->i_oldargc--;
1160         arglen = strlen(arg + 1);
1161     } else {
1162         arg += 2;
1163     }
1164     /* Just ignore -YS,... for now */
1165     if (strncmp(arg, "S", 2) == 0)
1166         break;

```

```

1167         if (strncmp(arg, "l,", 2) == 0) {
1168             char *s = strdup(arg);
1169             s[0] = '-';
1170             s[1] = 'B';
1171             newae(ctx->i_ae, s);
1172             free(s);
1173             break;
1174         }
1175         if (strncmp(arg, "I,", 2) == 0) {
1176             char *s = strdup(arg);
1177             s[0] = '-';
1178             s[1] = 'I';
1179             newae(ctx->i_ae, "-nostdinc");
1180             newae(ctx->i_ae, s);
1181             free(s);
1182             break;
1183         }
1184         error(arg);
1185         break;
1186     case 'Q':
1187         /*
1188          * We could map -Qy into -Wl,-Qy etc.
1189          */
1190     default:
1191         error(arg);
1192         break;
1193     }
1194 }

1196 free(nameflag);

1198 if (c_files > 1 && (ctx->i_flags & CW_F_SHADOW) &&
1199     op != CW_O_PREPROCESS) {
1200     errx(2, "multiple source files are "
1201         "allowed only with -E or -P");
1202 }

1204 /*
1205  * Make sure that we do not have any unintended interactions between
1206  * the xarch options passed in and the version of the Studio compiler
1207  * used.
1208  */
1209 if ((mflag & (SS11|SS12)) == (SS11|SS12)) {
1210     errx(2,
1211         "Conflicting \"-xarch=\" flags (both Studio 11 and 12)\n");
1212 }

1214 switch (mflag) {
1215     case 0:
1216         /* FALLTHROUGH */
1217         case M32:
1218     #if defined(__sparc)
1219         /*
1220          * Only -m32 is defined and so put in the missing xarch
1221          * translation.
1222          */
1223         newae(ctx->i_ae, "-mcpu=v8");
1224         newae(ctx->i_ae, "-mno-v8plus");
1225     #endif
1226         break;
1227         case M64:
1228     #if defined(__sparc)
1229         /*
1230          * Only -m64 is defined and so put in the missing xarch
1231          * translation.
1232          */

```

```

1233         newae(ctx->i_ae, "-mcpu=v9");
1234     #endif
1235         break;
1236         case SS12:
1237     #if defined(__sparc)
1238         /* no -m32/-m64 flag used - this is an error for sparc builds */
1239         (void) fprintf(stderr, "No -m32/-m64 flag defined\n");
1240         exit(2);
1241     #endif
1242         break;
1243         case SS11:
1244             /* FALLTHROUGH */
1245         case (SS11|M32):
1246         case (SS11|M64):
1247             break;
1248         case (SS12|M32):
1249     #if defined(__sparc)
1250         /*
1251          * Need to add in further 32 bit options because with SS12
1252          * the xarch=sparcvis option can be applied to 32 or 64
1253          * bit, and so the translation table (xtbl) cannot handle
1254          * that.
1255          */
1256         newae(ctx->i_ae, "-mv8plus");
1257     #endif
1258         break;
1259         case (SS12|M64):
1260             break;
1261         default:
1262             (void) fprintf(stderr,
1263                 "Incompatible -xarch= and/or -m32/-m64 options used.\n");
1264             exit(2);
1265     }

1267 if ((op == CW_O_LINK || op == CW_O_PREPROCESS) &&
1268     (ctx->i_flags & CW_F_SHADOW))
1269     exit(0);

1271     if (model != NULL)
1272     if (model && !pic)
1273         newae(ctx->i_ae, model);
1274     if (!nolibc)
1275         newae(ctx->i_ae, "-lc");
1276     if (!seen_o && (ctx->i_flags & CW_F_SHADOW)) {
1277         newae(ctx->i_ae, "-o");
1278         newae(ctx->i_ae, ctx->i_discard);
1279     }

```

unchanged_portion_omitted

new/usr/src/ucbcmd/sbcp/Makefile

1

```
*****
1780 Thu Oct 11 01:49:54 2018
new/usr/src/ucbcmd/sbcp/Makefile
9884 cw(1) should use -fpic rather than -Kpic
*****
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 2008 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 PROG=          sbcp

28 include ../Makefile.ucbcmd

30 CLEANFILES=    sysent.s
31 POFILE=

33 OBJS=          sbcp.o sbcp_util.o

35 FILEMODE=     755

37 .KEEP_STATE:

39 # Preserve the relationship of libraries as they are defined in libc.so.1.9
40 LIBBC=         ../../lib/libbc/sparc/libc.so.1.9
41 LIBUCB=        ../../ucb/lib/libucb/sparc/libucb.so.1

43 # need libc/sparc/inc for PIC.h
44 ASFLAGS=       -P -D_ASM -DPIC $(AS_PICFLAGS)
44 ASFLGS=        -P -D_ASM -DPIC -K pic
45 LDFLAGS=       -R /usr/4lib:/usr/ucb/lib -e _start -G -t \
46               $(BLOCAL) $(ZNOVERSION) $(ZDEFS) $(ZTEXT) \
47               -I/usr/lib/ld.so.1
48 LIBS=          $(LDLIBS.lib) -lmmapalloc $(LIBBC) $(LIBUCB) -lnsl -lc

50 CERRWARN      += -_gcc=-Wno-unused-variable

52 all:          $(PROG)

54 install:     all $(ROOT4LIBPROG)

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

59 $(PROG):     $(OBJS)
60             $(LDOPTS) $(LD) $(LDFLAGS) -o sbcp $(OBJS) $(LIBS)
```

new/usr/src/ucbcmd/sbcp/Makefile

2

```
61             $(POST_PROCESS)

63 $(OBJS):     sysent.s

65 sysent.s:   syscalls.list mksysent
66             -$(RM) sysent.s
67             sh ./mksysent > sysent.s

69 include ../Makefile.ucbtarg
```