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*****
35909 Thu Oct 4 19:36:11 2018
new/usr/src/Makefile.master
9420 need GCC options to disable function cloning
*****
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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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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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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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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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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 CCNOAUTOINLINE=  _gcc=-fno-inline-small-functions \
338     _gcc=-fno-inline-functions-called-once \
339     _gcc=-fno-ipa-cp \
340     _gcc6=-fno-ipa-icf \
341     _gcc7=-fno-ipa-icf \
342     _gcc8=-fno-ipa-icf \
343     _gcc6=-fno-clone-functions \
344     _gcc7=-fno-clone-functions \
345     _gcc8=-fno-clone-functions \
346     _gcc=-fno-ipa-cp

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)

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

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 XDEPEND=          -xdepend
401 XFFLAG=           -xF=%all
402 XESS=             -xs
403 XSTRCONST=       -xstrconst

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

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

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

420 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
421 # -nd builds
422 $(RELEASE_BUILD)CERRWARN += -_gcc=-Wno-unused
423 $(RELEASE_BUILD)CERRWARN += -_gcc=-Wno-empty-body

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

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

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

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

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

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

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457 # When -g is used, the compiler globalizes static objects
458 # (gives them a unique prefix). Disable that.
459 CNOGLOBAL= -W0,-noglobal

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

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

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

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

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

489 # Sun Studio produces broken userland code when saving arguments.
490 $(__GNUCC)CTF_FLAGS_amd64 += $(SAVEARGS)

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

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

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

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

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

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

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

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522 #
523 sparc_IROPTFLAG      = -W2,-xwrap_int
524 sparcv9_IROPTFLAG   = -W2,-xwrap_int
525 i386_IROPTFLAG      =
526 amd64_IROPTFLAG     =

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

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

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

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

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

558 CSOURCEDEBUGFLAGS  =
559 CCSOURCEDEBUGFLAGS =
560 $(SRCDGBLD)CSOURCEDEBUGFLAGS = -g -xs
561 $(SRCDGBLD)CCSOURCEDEBUGFLAGS = -g -xs

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

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

```

```

588 CPPFLAGS=          $(CPPFLAGS.first) $(CPPFLAGS.master)
589 AS_CPPFLAGS=       $(CPPFLAGS.first) $(CPPFLAGS.master)
590 JAVAFLAGS=         -source 1.6 -target 1.6 -Xlint:deprecation,-options

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

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

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

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

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

641 CCOPTFLAG=         ${$(MACH)_CCOPTFLAG}
642 CCOPTFLAG64=       ${$(MACH64)_CCOPTFLAG}
643 CCFLAGS=           $(CCOPTFLAG) ${$(MACH)_CCFLAGS} $(CCSOURCEDEBUGFLAGS) \
644                     $(CUSERFLAGS)
645 CCFLAGS64=         $(CCOPTFLAG64) ${$(MACH64)_CCFLAGS} $(CCSOURCEDEBUGFLAGS) \
646                     $(CCUSERFLAGS64)

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

```

```

654 #
655 # Various mapfiles that are used throughout the build, and delivered to
656 # /usr/lib/ld.
657 #
658 MAPFILE.NED_i386 = $(SRC)/common/mapfiles/common/map.noexdata
659 MAPFILE.NED_sparc =
660 MAPFILE.NED = $(MAPFILE.NED_$(MACH))
661 MAPFILE.PGA = $(SRC)/common/mapfiles/common/map.pagealign
662 MAPFILE.NES = $(SRC)/common/mapfiles/common/map.noexstk
663 MAPFILE.FLT = $(SRC)/common/mapfiles/common/map.filter
664 MAPFILE.LEX = $(SRC)/common/mapfiles/common/map.lex.yy

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

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

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

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

709 #
710 # Define compilation macros.
711 #
712 COMPILER.c= $(CC) $(CFLAGS) $(CPPFLAGS) -c
713 COMPILER64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) $(CPPFLAGS) -c
714 COMPILER.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) -c
715 COMPILER64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(CPPFLAGS) -c
716 COMPILER.s= $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
717 COMPILER64.s= $(AS) $(ASFLAGS) $(MACH64)_AS_XARCH) $(AS_CPPFLAGS)
718 COMPILER.d= $(DTRACE) -G -32
719 COMPILER64.d= $(DTRACE) -G -64

```

```

720 COMPILER.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
721 COMPILER64.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

723 CLASSPATH= .
724 COMPILER.java= $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

726 #
727 # Link time macros
728 #
729 CCNEEDED = -lC
730 CCEXTNEEDED = -lCrun -lCstd
731 $(__GNUC)CCNEEDED = -L$(GCCLIBDIR) -lstc++ -lgcc_s
732 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

734 LINK.c= $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
735 LINK64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
736 NORUNPATH= -norunpath -nolib
737 LINK.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) $(NORUNPATH) \
738 $(LDFLAGS) $(CCNEEDED)
739 LINK64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
740 $(LDFLAGS) $(CCNEEDED)

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

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

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

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

784 # Define native compilation macros
785 #

```

```

787 # Base directory where compilers are loaded.
788 # Defined here so it can be overridden by developer.
789 #
790 SPRO_ROOT=          $(BUILD_TOOLS)/SUNWsprio
791 SPRO_VROOT=         $(SPRO_ROOT)/SS12
792 GNU_ROOT=           /usr

794 $(__GNUC)PRIMARY_CC= gcc4,$(GNU_ROOT)/bin/gcc.gnu
795 $(__SUNC)PRIMARY_CC= studio12,$(SPRO_VROOT)/bin/cc.sun
796 $(__GNUC)PRIMARY_CCC= gcc4,$(GNU_ROOT)/bin/g++.gnu
797 $(__SUNC)PRIMARY_CCC= studio12,$(SPRO_VROOT)/bin/CC.sun

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

803 # Till SS12u1 formally becomes the NV CBE, LINT is hard
804 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/
805 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
806 # i386_LINT, amd64_LINT.
807 # Reset them when SS12u1 is rolled out.
808 #

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

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

821 $(MACH)_CC=         $(BUILD_CC)
822 $(MACH)_CCC=        $(BUILD_CCC)
823 $(MACH)_CPP=        $(BUILD_CPP)
824 $(MACH)_LD=         $(BUILD_LD)
825 $(MACH)_LINT=       $(BUILD_LINT)
826 $(MACH64)_CC=      $(BUILD_CC)
827 $(MACH64)_CCC=     $(BUILD_CCC)
828 $(MACH64)_CPP=     $(BUILD_CPP)
829 $(MACH64)_LD=      $(BUILD_LD)
830 $(MACH64)_LINT=    $(BUILD_LINT)

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

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

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

846 #
847 # Makefile.master.64 overrides these settings
848 #
849 CC=                 $(NATIVECC)
850 CCC=                 $(NATIVECCC)
851 CPP=                 $(NATIVECPP)

```

```

852 AS=                 $(NATIVEAS)
853 LD=                 $(NATIVELD)
854 LINT=               $(NATIVELINT)

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

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

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

888 GSHARED=            -G
889 CCMT=               -mt

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

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

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

908 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
909 sparc_CC_PICFLAGS =  -Kpic
910 sparcv9_CC_PICFLAGS = -Kpic
911 i386_CC_PICFLAGS =   -Kpic
912 amd64_CC_PICFLAGS =  -Kpic
913 CC_PICFLAGS =        $(MACH)_CC_PICFLAGS
914 CC_PICFLAGS64 =     $(MACH64)_CC_PICFLAGS

916 AS_PICFLAGS=        $(C_PICFLAGS)
917 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 $(SRCSDBGBLD)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) $(GNUXGETFLAGS) -d $(<F:%.py=%) $< ;

1119 .pl.po .pm.po:
1120 $(XGETTEXT) $(XGETFLAGS) -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 #
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)

```

new/usr/src/Makefile.master

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```
1183 #  
1184 # Include rules to render automated sccs get rules "safe".  
1185 #  
1186 include $(SRC)/Makefile.noget
```