

```

*****
34785 Tue Nov  4 17:02:07 2014
new/usr/src/Makefile.master
4457 we apparently change .comment of almost every userland object
*****
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
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14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright (c) 2012 by Delphix. All rights reserved.
25 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
26 #
27 #
28 #
29 # Makefile.master, global definitions for system source
30 #
31 ROOT=          /proto
32 #
33 #
34 # Adjunct root, containing an additional proto area to be used for headers
35 # and libraries.
36 #
37 ADJUNCT_PROTO=
38 #
39 #
40 # Adjunct for building things that run on the build machine.
41 #
42 NATIVE_ADJUNCT= /usr
43 #
44 #
45 # RELEASE_BUILD should be cleared for final release builds.
46 # NOT_RELEASE_BUILD is exactly what the name implies.
47 #
48 # __GNUC toggles the building of ON components using gcc and related tools.
49 # Normally set to '#', set it to '' to do gcc build.
50 #
51 # The declaration POUND_SIGN is always '#'. This is needed to get around the
52 # make feature that '#' is always a comment delimiter, even when escaped or
53 # quoted. We use this macro expansion method to get POUND_SIGN rather than
54 # always breaking out a shell because the general case can cause a noticeable
55 # slowdown in build times when so many Makefiles include Makefile.master.
56 #
57 # While the majority of users are expected to override the setting below
58 # with an env file (via nightly or bldenv), if you aren't building that way
59 # (ie, you're using "ws" or some other bootstrapping method) then you need
60 # this definition in order to avoid the subshell invocation mentioned above.
61 #

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63 PRE_POUND=          pre\#
64 POUND_SIGN=         $(PRE_POUND:pre\#=%)
65 #
66 NOT_RELEASE_BUILD=
67 RELEASE_BUILD=      $(POUND_SIGN)
68 $(RELEASE_BUILD)NOT_RELEASE_BUILD= $(POUND_SIGN)
69 PATCH_BUILD=        $(POUND_SIGN)
70 #
71 # SPARC_BLD is '#' for an Intel build.
72 # INTEL_BLD is '#' for a Sparc build.
73 SPARC_BLD_1=        $(MACH:i386=$(POUND_SIGN))
74 SPARC_BLD=          $(SPARC_BLD_1:sparc=)
75 INTEL_BLD_1=        $(MACH:sparc=$(POUND_SIGN))
76 INTEL_BLD=          $(INTEL_BLD_1:i386=)
77 #
78 # The variables below control the compilers used during the build.
79 # There are a number of permutations.
80 #
81 # __GNUC and __SUNC control (and indicate) the primary compiler.  Whichever
82 # one is not POUND_SIGN is the primary, with the other as the shadow.  They
83 # may also be used to control entirely compiler-specific Makefile assignments.
84 # __GNUC and GCC are the default.
85 #
86 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
87 # There is no Sun C analogue.
88 #
89 # The following version-specific options are operative regardless of which
90 # compiler is primary, and control the versions of the given compilers to be
91 # used.  They also allow compiler-version specific Makefile fragments.
92 #
93 #
94 __SUNC=              $(POUND_SIGN)
95 $(__SUNC)__GNUC=     $(POUND_SIGN)
96 __GNUC64=           $(__GNUC)
97 #
98 # CLOSED is the root of the tree that contains source which isn't released
99 # as open source
100 CLOSED=             $(SRC)/../closed
101 #
102 # BUILD_TOOLS is the root of all tools including compilers.
103 # ONBLD_TOOLS is the root of all the tools that are part of SUNWonbld.
104 #
105 BUILD_TOOLS=        /ws/onnv-tools
106 ONBLD_TOOLS=        $(BUILD_TOOLS)/onbld
107 #
108 JAVA_ROOT=          /usr/java
109 #
110 SFW_ROOT=           /usr/sfw
111 SFWINCDIR=          $(SFW_ROOT)/include
112 SFWLIBDIR=          $(SFW_ROOT)/lib
113 SFWLIBDIR64=        $(SFW_ROOT)/lib/$(MACH64)
114 #
115 GCC_ROOT=           /opt/gcc/4.4.4
116 GCCLIBDIR=          $(GCC_ROOT)/lib
117 GCCLIBDIR64=        $(GCC_ROOT)/lib/$(MACH64)
118 #
119 DOCBOOK_XSL_ROOT=  /usr/share/sgml/docbook/xsl-stylesheets
120 #
121 RPCGEN=             /usr/bin/rpcgen
122 STABS=              $(ONBLD_TOOLS)/bin/$(MACH)/stabs
123 ELFXTRACT=          $(ONBLD_TOOLS)/bin/$(MACH)/elfextract
124 MBH_PATCH=          $(ONBLD_TOOLS)/bin/$(MACH)/mbh_patch
125 ECHO=               echo
126 INS=                install
127 TRUE=              true

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128 SYMLINK=      /usr/bin/ln -s
129 LN=           /usr/bin/ln
130 CHMOD=        /usr/bin/chmod
131 MV=           /usr/bin/mv -f
132 RM=           /usr/bin/rm -f
133 CUT=          /usr/bin/cut
134 NM=           /usr/ccs/bin/nm
135 DIFF=         /usr/bin/diff
136 GREP=         /usr/bin/grep
137 EGREP=        /usr/bin/egrep
138 ELFWRAP=      /usr/bin/elfwrap
139 KSH93=        /usr/bin/ksh93
140 SED=          /usr/bin/sed
141 NAWK=         /usr/bin/nawk
142 CP=           /usr/bin/cp -f
143 MCS=          /usr/ccs/bin/mcs
144 CAT=          /usr/bin/cat
145 ELFDUMP=      /usr/ccs/bin/elfdump
146 M4=           /usr/ccs/bin/m4
147 STRIP=        /usr/ccs/bin/strip
148 LEX=          /usr/ccs/bin/lex
149 FLEX=         $(SFW_ROOT)/bin/flex
150 YACC=         /usr/ccs/bin/yacc
151 CPP=          /usr/lib/cpp
152 JAVAC=        $(JAVA_ROOT)/bin/javac
153 JAVAH=        $(JAVA_ROOT)/bin/javah
154 JAVADOC=      $(JAVA_ROOT)/bin/javadoc
155 RMIC=         $(JAVA_ROOT)/bin/rmic
156 JAR=          $(JAVA_ROOT)/bin/jar
157 CTFCONVERT=  $(ONBLD_TOOLS)/bin/$(MACH)/ctfconvert
158 CTFMERGE=    $(ONBLD_TOOLS)/bin/$(MACH)/ctfmerge
159 CTFSTABS=    $(ONBLD_TOOLS)/bin/$(MACH)/ctfstabs
160 CTFSTRIP=    $(ONBLD_TOOLS)/bin/$(MACH)/ctfstrip
161 NDRGEN=      $(ONBLD_TOOLS)/bin/$(MACH)/ndrgen
162 GENOFFSETS= $(ONBLD_TOOLS)/bin/genoffsets
163 CTFCVTPTBL= $(ONBLD_TOOLS)/bin/ctfcvtptbl
164 CTFPINDMOD= $(ONBLD_TOOLS)/bin/ctfpindmod
165 XREF=        $(ONBLD_TOOLS)/bin/xref
166 FIND=        /usr/bin/find
167 PERL=        /usr/bin/perl
168 PERL_VERSION= 5.10.0
169 PERL_PKGVERS= -510
170 PYTHON_26=   /usr/bin/python2.6
171 PYTHON=      $(PYTHON_26)
172 SORT=        /usr/bin/sort
173 TOUCH=       /usr/bin/touch
174 WC=          /usr/bin/wc
175 XARGS=       /usr/bin/xargs
176 ELFDIT=      /usr/bin/elfedit
177 ELFSIGN=     /usr/bin/elfsign
178 DTRACE=      /usr/sbin/dtrace -xnolib
179 UNIQ=        /usr/bin/uniq
180 TAR=         /usr/bin/tar
181 ASTBINDIR=   /usr/ast/bin
182 MSGCC=       $(ASTBINDIR)/msgcc

184 FILEMODE=    644
185 DIRMODE=     755

187 #
188 # The version of the patch makeup table optimized for build-time use.  Used
189 # during patch builds only.
190 $(PATCH_BUILD)PMTMO_FILE=$(SRC)/patch_makeup_table.mo

192 # Declare that nothing should be built in parallel.
193 # Individual Makefiles can use the .PARALLEL target to declare otherwise.

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194 .NO_PARALLEL:

196 # For stylistic checks
197 #
198 # Note that the X and C checks are not used at this time and may need
199 # modification when they are actually used.
200 #
201 CSTYLE=       $(ONBLD_TOOLS)/bin/cstyle
202 CSTYLE_TAIL= $(ONBLD_TOOLS)/bin/cstyle
203 HDRCHK=       $(ONBLD_TOOLS)/bin/hdrchk
204 HDRCHK_TAIL= $(ONBLD_TOOLS)/bin/hdrchk
205 JSTYLE=       $(ONBLD_TOOLS)/bin/jstyle

207 DOT_H_CHECK=  \
208   @$ (ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL); \
209   $(HDRCHK) $< $(HDRCHK_TAIL)

211 DOT_X_CHECK=  \
212   @$ (ECHO) "checking $<"; $(RPCGEN) -C -h $< | $(CSTYLE) $(CSTYLE_TAIL); \
213   $(RPCGEN) -C -h $< | $(HDRCHK) $< $(HDRCHK_TAIL)

215 DOT_C_CHECK=  \
216   @$ (ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL)

218 MANIFEST_CHECK= \
219   @$ (ECHO) "checking $<"; \
220   SVCCFG_DTD=$(SRC)/cmd/svc/dtd/service_bundle.dtd.1 \
221   SVCCFG_REPOSITORY=$(SRC)/cmd/svc/seed/global.db \
222   SVCCFG_CONFIGD_PATH=$(SRC)/cmd/svc/configd/svc.configd-native \
223   $(SRC)/cmd/svc/svccfg/svccfg-native validate $<

225 INS.file=     $(RM) $@; $(INS) -s -m $(FILEMODE) -f $(@D) $<
226 INS.dir=      $(INS) -s -d -m $(DIRMODE) $@
227 # installs and renames at once
228 #
229 INS.rename=   $(INS.file); $(MV) $(@D)/$(<F) $@

231 # install a link
232 INSLINKTARGET= $<
233 INS.link=     $(RM) $@; $(LN) $(INSLINKTARGET) $@
234 INS.symlink=  $(RM) $@; $(SYMLINK) $(INSLINKTARGET) $@

236 #
237 # Python bakes the mtime of the .py file into the compiled .pyc and
238 # rebuilds if the baked-in mtime != the mtime of the source file
239 # (rather than only if it's less than), thus when installing python
240 # files we must make certain to not adjust the mtime of the source
241 # (.py) file.
242 #
243 INS.pyfile=   $(INS.file); $(TOUCH) -r $< $@

245 # MACH must be set in the shell environment per uname -p on the build host
246 # More specific architecture variables should be set in lower makefiles.
247 #
248 # MACH64 is derived from MACH, and BUILD64 is set to '#' for
249 # architectures on which we do not build 64-bit versions.
250 # (There are no such architectures at the moment.)
251 #
252 # Set BUILD64=# in the environment to disable 64-bit amd64
253 # builds on i386 machines.

255 MACH64_1=     $(MACH:sparc=sparcv9)
256 MACH64=       $(MACH64_1:i386=amd64)

258 MACH32_1=     $(MACH:sparc=sparcv7)
259 MACH32=       $(MACH32_1:i386=i86)

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261 sparc_BUILD64=
262 i386_BUILD64=
263 BUILD64=      $$($(MACH)_BUILD64)

265 #
266 # C compiler mode. Future compilers may change the default on us,
267 # so force extended ANSI mode globally. Lower level makefiles can
268 # override this by setting CCMODE.
269 #
270 CCMODE=        -Xa
271 CCMODE64=     -Xa

273 #
274 # C compiler verbose mode. This is so we can enable it globally,
275 # but turn it off in the lower level makefiles of things we cannot
276 # (or aren't going to) fix.
277 #
278 CCVERBOSE=    -v

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

284 # set this to the secret flag "-Wc,-Qiselect-regsym=0" to disable register
285 # symbols (used to detect conflicts between objects that use global registers)
286 # we disable this now for safety, and because genunix doesn't link with
287 # this feature (the v9 default) enabled.
288 #
289 # REGSYM is separate since the C++ driver syntax is different.
290 CCREGSYM=     -Wc,-Qiselect-regsym=0
291 CCCREGSYM=    -Qoption cg -Qiselect-regsym=0

293 # Prevent the removal of static symbols by the SPARC code generator (cg).
294 # The x86 code generator (ube) does not remove such symbols and as such
295 # using this workaround is not applicable for x86.
296 #
297 CCSTATICSYM= -Wc,-Qassembler-ounrefsym=0
298 #
299 # generate 32-bit addresses in the v9 kernel. Saves memory.
300 CCABS32=     -Wc,-xcode=abs32
301 #
302 # generate v9 code which tolerates callers using the v7 ABI, for the sake of
303 # system calls.
304 CC32BITCALLERS=  _gcc=-massume-32bit-callers

306 # GCC, especially, is increasingly beginning to auto-inline functions and
307 # sadly does so separately not under the general -fno-inline-functions
308 # Additionally, we wish to prevent optimisations which cause GCC to clone
309 # functions -- in particular, these may cause unhelpful symbols to be
310 # emitted instead of function names
311 CCNOAUTOINLINE= _gcc=-fno-inline-small-functions \
312                _gcc=-fno-inline-functions-called-once \
313                _gcc=-fno-ipa-cp

315 # One optimization the compiler might perform is to turn this:
316 #   #pragma weak foo
317 #   extern int foo;
318 #   if (&foo)
319 #       foo = 5;
320 # into
321 #   foo = 5;
322 # Since we do some of this (foo might be referenced in common kernel code
323 # but provided only for some cpu modules or platforms), we disable this
324 # optimization.
325 #

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326 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
327 i386_CCUNBOUND  =
328 CCUNBOUND       = $$($(MACH)_CCUNBOUND)

330 #
331 # compiler '-xarch' flag. This is here to centralize it and make it
332 # overridable for testing.
333 sparc_XARCH=    -m32
334 sparcv9_XARCH= -m64
335 i386_XARCH=
336 amd64_XARCH=   -m64 -Ui386 -U__i386

338 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
339 sparc_AS_XARCH= -xarch=v8plus
340 sparcv9_AS_XARCH= -xarch=v9
341 i386_AS_XARCH=
342 amd64_AS_XARCH= -xarch=amd64 -P -Ui386 -U__i386

344 #
345 # These flags define what we need to be 'standalone' i.e. -not- part
346 # of the rather more cosy userland environment. This basically means
347 # the kernel.
348 #
349 # XX64 future versions of gcc will make -mmodel=kernel imply -mno-red-zone
350 #
351 sparc_STAND_FLAGS=  _gcc=-ffreestanding
352 sparcv9_STAND_FLAGS= _gcc=-ffreestanding
353 # Disabling MMX also disables 3DNow, disabling SSE also disables all later
354 # additions to SSE (SSE2, AVX ,etc.)
355 NO_SIMD=           _gcc=-mno-mmx _gcc=-mno-sse
356 i386_STAND_FLAGS=  _gcc=-ffreestanding $(NO_SIMD)
357 amd64_STAND_FLAGS= -xmodel=kernel $(NO_SIMD)

359 SAVEARGS=         -Wu,-save_args
360 amd64_STAND_FLAGS += $(SAVEARGS)

362 STAND_FLAGS_32 = $$($(MACH)_STAND_FLAGS)
363 STAND_FLAGS_64 = $$($(MACH64)_STAND_FLAGS)

365 #
366 # disable the incremental linker
367 ILDOFF=           -xildoff
368 #
369 XDEPEND=          -xdepend
370 XFFLAG=           -xF=%all
371 XESS=             -xs
372 XSTRCONST=       -xstrconst

374 #
375 # turn warnings into errors (C)
376 CERRWARN = -errtags=yes -errwarn=%all
377 CERRWARN += -erroff=E_EMPTY_TRANSLATION_UNIT
378 CERRWARN += -erroff=E_STATEMENT_NOT_REACHED

380 CERRWARN += _gcc=-Wno-missing-braces
381 CERRWARN += _gcc=-Wno-sign-compare
382 CERRWARN += _gcc=-Wno-unknown-pragmas
383 CERRWARN += _gcc=-Wno-unused-parameter
384 CERRWARN += _gcc=-Wno-missing-field-initializers

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

389 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
390 # -nd builds
391 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-unused

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392 $(RELEASE_BUILD)CERRWARN += -_gcc=-Wno-empty-body
394 #
395 # turn warnings into errors (C++)
396 CCERRWARN=          -xwe

398 # C99 mode
399 C99_ENABLE=         -xc99=%all
400 C99_DISABLE=        -xc99=%none
401 C99MODE=            $(C99_DISABLE)
402 C99LMODE=           $(C99MODE:-xc99%=-Xc99%)

404 # In most places, assignments to these macros should be appended with +=
405 # (CPPFLAGS.master allows values to be prepended to CPPFLAGS).
406 sparc_CFLAGS=       $(sparc_XARCH) $(CCSTATICSYM)
407 sparcv9_CFLAGS=     $(sparcv9_XARCH) -dalign $(CCVERBOSE) $(V9ABIWARN) $(CCREGSYM) \
408                     $(CCSTATICSYM)
409 i386_CFLAGS=        $(i386_XARCH)
410 amd64_CFLAGS=       $(amd64_XARCH)

412 sparc_ASFLAGS=      $(sparc_AS_XARCH)
413 sparcv9_ASFLAGS=    $(sparcv9_AS_XARCH)
414 i386_ASFLAGS=       $(i386_AS_XARCH)
415 amd64_ASFLAGS=      $(amd64_AS_XARCH)

417 #
418 sparc_COPTFLAG=     -xO3
419 sparcv9_COPTFLAG=  -xO3
420 i386_COPTFLAG=     -O
421 amd64_COPTFLAG=    -xO3

423 COPTFLAG=           $(($(MACH)_COPTFLAG))
424 COPTFLAG64=        $(($(MACH64)_COPTFLAG))

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

430 # Direct the Sun Studio compiler to use a static globalization prefix based on t
431 # name of the module rather than something unique. Otherwise, objects
432 # will not build deterministically, as subsequent compilations of identical
433 # source will yeild objects that always look different.
434 #
435 # In the same spirit, this will also remove the date from the N_OPT stab.
436 CGLOBALSTATIC= -W0,-xglobalstatic

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

442 #
443 # Default debug format for Sun Studio 11 is dwarf, so force it to
444 # generate stabs.
445 #
446 DEBUGFORMAT=      -xdebugformat=stabs

448 #
449 # Flags used to build in debug mode for ctf generation.  Bugs in the Devpro
450 # compilers currently prevent us from building with cc-emitted DWARF.
451 #
452 CTF_FLAGS_sparc = -g -Wc,-Qiselect-T1 $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)
453 CTF_FLAGS_i386  = -g $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)

455 CTF_FLAGS_sparcv9 = $(CTF_FLAGS_sparc)
456 CTF_FLAGS_amd64   = $(CTF_FLAGS_i386)

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458 # Sun Studio produces broken userland code when saving arguments.
459 $(__GNUC)CTF_FLAGS_amd64 += $(SAVEARGS)

461 CTF_FLAGS_32      = $(CTF_FLAGS_$(MACH)) $(DEBUGFORMAT)
462 CTF_FLAGS_64     = $(CTF_FLAGS_$(MACH64)) $(DEBUGFORMAT)
463 CTF_FLAGS        = $(CTF_FLAGS_32)

465 #
466 # Flags used with genoffsets
467 #
468 GOFLAGS = -_noecho \
469           $(CALLSYMS) \
470           $(CDWARFSTR)

472 OFFSETS_CREATE = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
473                 $(CC) $(GOFLAGS) $(CFLAGS) $(CPPFLAGS)

475 OFFSETS_CREATE64 = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
476                   $(CC) $(GOFLAGS) $(CFLAGS64) $(CPPFLAGS)

478 #
479 # tradeoff time for space (smaller is better)
480 #
481 sparc_SPACEFLAG      = -xspace -W0,-Lt
482 sparcv9_SPACEFLAG   = -xspace -W0,-Lt
483 i386_SPACEFLAG       = -xspace
484 amd64_SPACEFLAG      =

486 SPACEFLAG           = $(($(MACH)_SPACEFLAG))
487 SPACEFLAG64         = $(($(MACH64)_SPACEFLAG))

489 #
490 # The Sun Studio 11 compiler has changed the behaviour of integer
491 # wrap arounds and so a flag is needed to use the legacy behaviour
492 # (without this flag panics/hangs could be exposed within the source).
493 #
494 sparc_IROPTFLAG      = -W2,-xwrap_int
495 sparcv9_IROPTFLAG   = -W2,-xwrap_int
496 i386_IROPTFLAG       =
497 amd64_IROPTFLAG      =

499 IROPTFLAG           = $(($(MACH)_IROPTFLAG))
500 IROPTFLAG64         = $(($(MACH64)_IROPTFLAG))

502 sparc_XREGSFLAG     = -xregs=no%appl
503 sparcv9_XREGSFLAG   = -xregs=no%appl
504 i386_XREGSFLAG       =
505 amd64_XREGSFLAG      =

507 XREGSFLAG           = $(($(MACH)_XREGSFLAG))
508 XREGSFLAG64         = $(($(MACH64)_XREGSFLAG))

510 # dmake SOURCEDEBUG=yes ... enables source-level debugging information, and
511 # avoids stripping it.
512 SOURCEDEBUG         = $(POUND_SIGN)
513 SRCDBGBLD           = $(SOURCEDEBUG=yes=)

515 #
516 # These variables are intended ONLY for use by developers to safely pass extra
517 # flags to the compilers without unintentionally overriding Makefile-set
518 # flags.  They should NEVER be set to any value in a Makefile.
519 #
520 # They come last in the associated FLAGS variable such that they can
521 # explicitly override things if necessary, there are gaps in this, but it's
522 # the best we can manage.
523 #

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524 CUSERFLAGS          =
525 CUSERFLAGS64       = $(CUSERFLAGS)
526 CCUSERFLAGS        =
527 CCUSERFLAGS64     = $(CCUSERFLAGS)

529 CSOURCEDEBUGFLAGS  =
530 CCSOURCEDEBUGFLAGS =
531 $(SRCSDBGBLD)CSOURCEDEBUGFLAGS = -g -xs
532 $(SRCSDBGBLD)CCSOURCEDEBUGFLAGS = -g -xs

534 CFLAGS=             $(COPTFLAG) $($ (MACH)_CFLAGS) $(SPACEFLAG) $(CCMODE) \
535                     $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG) \
536                     $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
537                     $(CUSERFLAGS)
538 CFLAGS64=           $(COPTFLAG64) $($ (MACH64)_CFLAGS) $(SPACEFLAG64) $(CCMODE64) \
539                     $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG64) \
540                     $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
541                     $(CUSERFLAGS64)
542 #
543 # Flags that are used to build parts of the code that are subsequently
544 # run on the build machine (also known as the NATIVE_BUILD).
545 #
546 NATIVE_CFLAGS=      $(COPTFLAG) $($ (NATIVE_MACH)_CFLAGS) $(CCMODE) \
547                     $(ILDOFF) $(CERRWARN) $(C99MODE) $($ (NATIVE_MACH)_CCUNBOUND) \
548                     $(IROPTFLAG) $(CGLOBALSTATIC) $(CCNOAUTOINLINE) \
549                     $(CSOURCEDEBUGFLAGS) $(CUSERFLAGS)

551 DTEXTDOM=-DTEXT_DOMAIN="\$(TEXT_DOMAIN)"      # For messaging.
552 DTS_ERRNO=-D_TS_ERRNO
553 CPPFLAGS.master=$(DTEXTDOM) $(DTS_ERRNO) \
554                 $(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) $(ENVCPPFLAGS4) \
555                 $(ADJUNCT_PROTO:%=-I%/usr/include)
556 CPPFLAGS.native=$(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) \
557                 $(ENVCPPFLAGS4) -I$(NATIVE_ADJUNCT)/include
558 CPPFLAGS=         $(CPPFLAGS.master)
559 AS_CPPFLAGS=      $(CPPFLAGS.master)
560 JAVAFLAGS=        -deprecation

562 #
563 # For source message catalogue
564 #
565 .SUFFIXES: $(SUFFIXES) .i .po
566 MSGROOT= $(ROOT)/catalog
567 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)
568 MSGDOMAINPOFILE = $(MSGDOMAIN)/$(POFILE)
569 DCMMSGDOMAIN= $(MSGROOT)/LC_TIME/$(TEXT_DOMAIN)
570 DCMMSGDOMAINPOFILE = $(DCMSGDOMAIN)/$(DCFILE:.dc=.po)

572 CLOBBERFILES += $(POFILE) $(POFILES)
573 COMPILER.cpp= $(CC) -E -C $(CFLAGS) $(CPPFLAGS)
574 XGETTEXT= /usr/bin/xgettext
575 XGETTEXTFLAGS= -c TRANSLATION_NOTE
576 GNUXGETTEXT= /usr/gnu/bin/xgettext
577 GNUXGETTEXTFLAGS= --add-comments=TRANSLATION_NOTE --keyword=_ \
578                  --strict --no-location --omit-header
579 BUILD.po= $(XGETTEXT) $(XGETTEXTFLAGS) -d $(<F) $<.i ;\
580           $(RM) $@ ;\
581           $(SED) "/^domain/d" < $(<F).po > $@ ;\
582           $(RM) $(<F).po $<.i

584 #
585 # This is overwritten by local Makefile when PROG is a list.
586 #
587 POFILE= $(PROG).po

589 sparc_CCFLAGS=      -cg92 -compat=4 \

```

```

590                 -Qoption ccfe -messages=no%anachronism \
591                 $(CCERRWARN)
592 sparcv9_CCFLAGS=    $(sparcv9_XARCH) -dalign -compat=5 \
593                 -Qoption ccfe -messages=no%anachronism \
594                 -Qoption ccfe -features=no%conststrings \
595                 $(CCREGSYM) \
596                 $(CCERRWARN)
597 i386_CCFLAGS=       -compat=4 \
598                 -Qoption ccfe -messages=no%anachronism \
599                 -Qoption ccfe -features=no%conststrings \
600                 $(CCERRWARN)
601 amd64_CCFLAGS=      $(amd64_XARCH) -compat=5 \
602                 -Qoption ccfe -messages=no%anachronism \
603                 -Qoption ccfe -features=no%conststrings \
604                 $(CCERRWARN)

606 sparc_CCOPTFLAG=   -O
607 sparcv9_CCOPTFLAG= -O
608 i386_CCOPTFLAG=    -O
609 amd64_CCOPTFLAG=   -O

611 CCOPTFLAG=          $($ (MACH)_CCOPTFLAG)
612 CCOPTFLAG64=        $($ (MACH64)_CCOPTFLAG)
613 CCFLAGS=            $(COPTFLAG) $($ (MACH)_CCFLAGS) $(CSOURCEDEBUGFLAGS) \
614                     $(CCUSERFLAGS)
615 CCFLAGS64=          $(COPTFLAG64) $($ (MACH64)_CCFLAGS) $(CSOURCEDEBUGFLAGS) \
616                     $(CUSERFLAGS64)

618 #
619 #
620 #
621 ELFWRAP_FLAGS =
622 ELFWRAP_FLAGS64 = -64

624 #
625 # Various mapfiles that are used throughout the build, and delivered to
626 # /usr/lib/ld.
627 #
628 MAPFILE.NED_i386 = $(SRC)/common/mapfiles/common/map.noexdata
629 MAPFILE.NED_sparc =
630 MAPFILE.NED =       $(MAPFILE.NED_$(MACH))
631 MAPFILE.PGA =       $(SRC)/common/mapfiles/common/map.pagealign
632 MAPFILE.NES =       $(SRC)/common/mapfiles/common/map.noexstk
633 MAPFILE.FLT =       $(SRC)/common/mapfiles/common/map.filter
634 MAPFILE.LEX =       $(SRC)/common/mapfiles/common/map.lex.yy

636 #
637 # Generated mapfiles that are compiler specific, and used throughout the
638 # build. These mapfiles are not delivered in /usr/lib/ld.
639 #
640 MAPFILE.NGB_sparc=  $(SRC)/common/mapfiles/gen/sparc_cc_map.noexglobs
641 $(__GNU64)MAPFILE.NGB_sparc= \
642                 $(SRC)/common/mapfiles/gen/sparc_gcc_map.noexglobs
643 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexglobs
644 $(__GNU64)MAPFILE.NGB_sparcv9= \
645                 $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexglobs
646 MAPFILE.NGB_i386=   $(SRC)/common/mapfiles/gen/i386_cc_map.noexglobs
647 $(__GNU64)MAPFILE.NGB_i386= \
648                 $(SRC)/common/mapfiles/gen/i386_gcc_map.noexglobs
649 MAPFILE.NGB_amd64=  $(SRC)/common/mapfiles/gen/amd64_cc_map.noexglobs
650 $(__GNU64)MAPFILE.NGB_amd64= \
651                 $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexglobs
652 MAPFILE.NGB =       $(MAPFILE.NGB_$(MACH))

654 #
655 # A generic interface mapfile name, used by various dynamic objects to define

```

```

656 # the interfaces and interposers the object must export.
657 #
658 MAPFILE.INT =          mapfile-intf

660 #
661 # LDLIBS32 and LDLIBS64 can be set in the environment to override the following
662 # assignments.
663 #
664 # These environment settings make sure that no libraries are searched outside
665 # of the local workspace proto area:
666 #     LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
667 #     LDLIBS64=-YP,$ROOT/lib/$MACH64:$ROOT/usr/lib/$MACH64
668 #
669 LDLIBS32 =             $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
670 LDLIBS32 +=          $(ADJUNCT_PROTO:%=-L%/usr/lib -L%/lib)
671 LDLIBS.cmd =         $(LDLIBS32)
672 LDLIBS.lib =         $(LDLIBS32)

674 LDLIBS64 =           $(ENVLDLIBS1:%=%/$(MACH64)) \
675                       $(ENVLDLIBS2:%=%/$(MACH64)) \
676                       $(ENVLDLIBS3:%=%/$(MACH64))
677 LDLIBS64 +=          $(ADJUNCT_PROTO:%=-L%/usr/lib/$(MACH64) -L%/lib/$(MACH64))

679 #
680 # Define compilation macros.
681 #
682 COMPILE.c=           $(CC) $(CFLAGS) $(CPPFLAGS) -c
683 COMPILE64.c=         $(CC) $(CFLAGS64) $(CPPFLAGS) -c
684 COMPILE.cc=          $(CCC) $(CCFLAGS) $(CPPFLAGS) -c
685 COMPILE64.cc=        $(CCC) $(CCFLAGS64) $(CPPFLAGS) -c
686 COMPILE.s=           $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
687 COMPILE64.s=         $(AS) $(ASFLAGS) $(MACH64)_AS_XARCH) $(AS_CPPFLAGS)
688 COMPILE.d=           $(DTRACE) -G -32
689 COMPILE64.d=         $(DTRACE) -G -64
690 COMPILE.b=           $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
691 COMPILE64.b=         $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

693 CLASSPATH=
694 COMPILE.java=        $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

696 #
697 # Link time macros
698 #
699 CCNEEDED              = -lC
700 CCEXTNEEDED           = -lCrun -lCstd
701 $(__GNUC)CCNEEDED     = -L$(GCCLIBDIR) -lstc++ -lgcc_s
702 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

704 LINK.c=               $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
705 LINK64.c=             $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
706 NORUNPATH=            -norunpath -nolib
707 LINK.cc=              $(CCC) $(CCFLAGS) $(CPPFLAGS) $(NORUNPATH) \
708                       $(LDFLAGS) $(CCNEEDED)
709 LINK64.cc=            $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
710                       $(LDFLAGS) $(CCNEEDED)

712 #
713 # lint macros
714 #
715 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once
716 # ON is built with a version of lint that has the fix for 4484186.
717 #
718 ALWAYS_LINT_DEFS =   -errtags=yes -s
719 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
720 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV
721 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME

```

```

722 ALWAYS_LINT_DEFS += $(C99LMODE)
723 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
724 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREAT_WITHOUT_EXCL
725 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
726 # XX64 -- really only needed for amd64 lint
727 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
728 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
729 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
730 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
731 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
732 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED
733 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
734 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

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

740 SECLEVEL=           core
741 LINT.c=              $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS) $(CPPFLAGS) \
742                       $(ALWAYS_LINT_DEFS)
743 LINT64.c=            $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS64) $(CPPFLAGS) \
744                       $(ALWAYS_LINT_DEFS)
745 LINT.s=              $(LINT.c)

747 # For some future builds, NATIVE_MACH and MACH might be different.
748 # Therefore, NATIVE_MACH needs to be redefined in the
749 # environment as 'uname -p' to override this macro.
750 #
751 # For now at least, we cross-compile amd64 on i386 machines.
752 NATIVE_MACH=         $(MACH:amd64=i386)

754 # Define native compilation macros
755 #

757 # Base directory where compilers are loaded.
758 # Defined here so it can be overridden by developer.
759 #
760 SPRO_ROOT=           $(BUILD_TOOLS)/SUNWspro
761 SPRO_VROOT=          $(SPRO_ROOT)/SS12
762 GNU_ROOT=            $(SFW_ROOT)

764 # Till SS12u1 formally becomes the NV CBE, LINT is hard
765 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/
766 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
767 # i386_LINT, amd64_LINT.
768 # Reset them when SS12u1 is rolled out.
769 #

771 # Specify platform compiler versions for languages
772 # that we use (currently only c and c++).
773 #
774 sparc_CC=            $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
775 $(__GNUC)sparc_CC=   $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
776 sparc_CCC=           $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
777 $(__GNUC)sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
778 sparc_CPP=           /usr/ccs/lib/cpp
779 sparc_AS=            /usr/ccs/bin/as -xregsym=no
780 sparc_LD=            /usr/ccs/bin/ld
781 sparc_LINT=          $(SPRO_ROOT)/sunstudio12.1/bin/lint

783 sparcv9_CC=          $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
784 $(__GNUC64)sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
785 sparcv9_CCC=         $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
786 $(__GNUC64)sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
787 sparcv9_CPP=         /usr/ccs/lib/cpp

```

```

788 sparcv9_AS=          /usr/ccs/bin/as -xregsym=no
789 sparcv9_LD=          /usr/ccs/bin/ld
790 sparcv9_LINT=        $(SPRO_ROOT)/sunstudio12.1/bin/lint

792 i386_CC=             $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
793 $(__GNUC)i386_CC=    $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
794 i386_CCC=            $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
795 $(__GNUC)i386_CCC=   $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
796 i386_CPP=            /usr/ccs/lib/cpp
797 i386_AS=             /usr/ccs/bin/as
798 $(__GNUC)i386_AS=    $(ONBLD_TOOLS)/bin/$(MACH)/aw
799 i386_LD=             /usr/ccs/bin/ld
800 i386_LINT=           $(SPRO_ROOT)/sunstudio12.1/bin/lint

802 amd64_CC=            $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
803 $(__GNUC64)amd64_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
804 amd64_CCC=           $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
805 $(__GNUC64)amd64_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
806 amd64_CPP=           /usr/ccs/lib/cpp
807 amd64_AS=            $(ONBLD_TOOLS)/bin/$(MACH)/aw
808 amd64_LD=            /usr/ccs/bin/ld
809 amd64_LINT=          $(SPRO_ROOT)/sunstudio12.1/bin/lint

811 NATIVECC=           $( $(NATIVE_MACH)_CC )
812 NATIVECCC=          $( $(NATIVE_MACH)_CCC )
813 NATIVECPP=          $( $(NATIVE_MACH)_CPP )
814 NATIVEAS=           $( $(NATIVE_MACH)_AS )
815 NATIVELD=           $( $(NATIVE_MACH)_LD )
816 NATIVELINT=         $( $(NATIVE_MACH)_LINT )

818 #
819 # Makefile.master.64 overrides these settings
820 #
821 CC=                  $(NATIVECC)
822 CCC=                 $(NATIVECCC)
823 CPP=                 $(NATIVECPP)
824 AS=                  $(NATIVEAS)
825 LD=                  $(NATIVELD)
826 LINT=                $(NATIVELINT)

828 # The real compilers used for this build
829 CW_CC_CMD=           $(CC) -_compiler
830 CW_CCC_CMD=          $(CCC) -_compiler
831 REAL_CC=             $(CW_CC_CMD:sh)
832 REAL_CCC=            $(CW_CCC_CMD:sh)

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

837 BDIRECT=            -Bdirect
838 BDYNAMIC=            -Bdynamic
839 BLOCAL=              -Blocal
840 BNODIRECT=           -Bnodirect
841 BREDUCE=             -Breduce
842 BSTATIC=             -Bstatic

844 ZDEFS=              -zdefs
845 ZDIRECT=             -zdirect
846 ZIGNORE=             -zignore
847 ZINITFIRST=         -zinitfirst
848 ZINTERPOSE=         -zinterpose
849 ZLAZYLOAD=           -zlazyload
850 ZLOADFLTR=          -zloadfltr
851 ZMULDEFS=            -zmuldefs
852 ZNODEFAULTLIB=      -znodefaultlib
853 ZNODEFS=             -znodefs

```

```

854 ZNODELETE=          -znodelete
855 ZNODLOPEN=          -znodlopen
856 ZNODUMP=            -znodump
857 ZNOLAZYLOAD=        -znolazyload
858 ZNOLDYNYSYM=        -znoldynsym
859 ZNORELOC=           -znoreloc
860 ZNOVERSION=          -znoversion
861 ZRECORD=            -zrecord
862 ZREDLOCSYM=         -zredlocsymb
863 ZTEXT=              -ztext
864 ZVERBOSE=           -zverbose

866 GSHARED=            -G
867 CCMT=               -mt

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

872 sparc_C_PICFLAGS =   -K pic
873 sparcv9_C_PICFLAGS = -K pic
874 i386_C_PICFLAGS =    -K pic
875 amd64_C_PICFLAGS =   -K pic
876 C_PICFLAGS =         $( $(MACH)_C_PICFLAGS )
877 C_PICFLAGS64 =       $( $(MACH64)_C_PICFLAGS )

879 sparc_C_BIGPICFLAGS = -K PIC
880 sparcv9_C_BIGPICFLAGS = -K PIC
881 i386_C_BIGPICFLAGS = -K PIC
882 amd64_C_BIGPICFLAGS = -K PIC
883 C_BIGPICFLAGS =     $( $(MACH)_C_BIGPICFLAGS )
884 C_BIGPICFLAGS64 =   $( $(MACH64)_C_BIGPICFLAGS )

886 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
887 sparc_CC_PICFLAGS =  -Kpic
888 sparcv9_CC_PICFLAGS = -Kpic
889 i386_CC_PICFLAGS =   -Kpic
890 amd64_CC_PICFLAGS =   -Kpic
891 CC_PICFLAGS =        $( $(MACH)_CC_PICFLAGS )
892 CC_PICFLAGS64 =      $( $(MACH64)_CC_PICFLAGS )

894 AS_PICFLAGS=         $(C_PICFLAGS)
895 AS_BIGPICFLAGS=      $(C_BIGPICFLAGS)

897 #
898 # Default label for CTF sections
899 #
900 CTFCVTFLAGS=         -i -L VERSION
901 $(SRCDBGBLD)CTFCVTFLAGS += -g

903 #
904 # Override to pass module-specific flags to ctmerge. Currently used only by
905 # krtld to turn on fuzzy matching, and source-level debugging to inhibit
906 # stripping.
907 #
908 CTFMRGFLAGS=         -g
909 $(SRCDBGBLD)CTFMRGFLAGS += -g

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

914 ELFSIGN_O=           $(TRUE)
915 ELFSIGN_CRYPT=       $(ELFSIGN_O)
916 ELFSIGN_OBJECT=      $(ELFSIGN_O)

918 # Rules (normally from make.rules) and macros which are used for post
919 # processing files. Normally, these do stripping of the comment section

```

```

920 # automatically.
921 #   RELEASE_CM:      Should be edited to reflect the release.
922 #   POST_PROCESS_O:  Post-processing for '.o' files.
923 #   POST_PROCESS_A:  Post-processing for '.a' files (currently null).
924 #   POST_PROCESS_SO: Post-processing for '.so' files.
925 #   POST_PROCESS:    Post-processing for executable files (no suffix).
926 # Note that these macros are not completely generalized as they are to be
927 # used with the file name to be processed following.
928 #
929 # It is left as an exercise to Release Engineering to embellish the generation
930 # of the release comment string.
931 #
932 #   If this is a standard development build:
933 #       compress the comment section (mcs -c)
934 #       add the standard comment (mcs -a $(RELEASE_CM))
935 #       add the development specific comment (mcs -a $(DEV_CM))
936 #
937 #   If this is an installation build:
938 #       delete the comment section (mcs -d)
939 #       add the standard comment (mcs -a $(RELEASE_CM))
940 #       add the development specific comment (mcs -a $(DEV_CM))
941 #
942 #   If this is an release build:
943 #       delete the comment section (mcs -d)
944 #       add the standard comment (mcs -a $(RELEASE_CM))
945 #
946 # The following list of macros are used in the definition of RELEASE_CM
947 # which is used to label all binaries in the build:
948 #
949 #   RELEASE           Specific release of the build, eg: 5.2
950 #   RELEASE_MAJOR     Major version number part of $(RELEASE)
951 #   RELEASE_MINOR     Minor version number part of $(RELEASE)
952 #   VERSION           Version of the build (alpha, beta, Generic)
953 #   PATCHID          If this is a patch this value should contain
954 #                   the patchid value (eg: "Generic 100832-01"), otherwise
955 #                   it will be set to $(VERSION)
956 #   RELEASE_DATE      Date of the Release Build
957 #   PATCH_DATE        Date the patch was created, if this is blank it
958 #                   will default to the RELEASE_DATE
959 #
960 RELEASE_MAJOR= 5
961 RELEASE_MINOR= 11
962 RELEASE= $(RELEASE_MAJOR).$(RELEASE_MINOR)
963 VERSION= SunOS Development
964 PATCHID= $(VERSION)
965 RELEASE_DATE= release date not set
966 PATCH_DATE= $(RELEASE_DATE)
967 RELEASE_CM= "@$(POUND_SIGN)SunOS $(RELEASE) $(PATCHID) $(PATCH_DATE)"
968 DEV_CM= "@$(POUND_SIGN)SunOS Internal Development: non-nightly build"
969 #
970 PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
971 $(RELEASE_BUILD)PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM)
972 #
973 STRIP_STABS= :
974 $(RELEASE_BUILD)STRIP_STABS= $(STRIP) -x $@
975 $(SRCDBGBLD)STRIP_STABS= :
976 #
977 POST_PROCESS_O=
978 POST_PROCESS_O= $(PROCESS_COMMENT) $@
979 POST_PROCESS_A=
980 POST_PROCESS_A= $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
981                 $(ELFSIGN_OBJECT)
982 POST_PROCESS_SO=
983 POST_PROCESS_SO= $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
984                 $(ELFSIGN_OBJECT)

```

```

985 # chk4ubin is a tool that inspects a module for a symbol table
986 # ELF section size which can trigger an OBP bug on older platforms.
987 # This problem affects only specific sun4u bootable modules.
988 #
989 CHK4UBIN= $(ONBLD_TOOLS)/bin/$(MACH)/chk4ubin
990 CHK4UBINFLAGS=
991 CHK4UBINARY= $(CHK4UBIN) $(CHK4UBINFLAGS) $@
992 #
993 #
994 # PKGARCHIVE specifies the default location where packages should be
995 # placed if built.
996 #
997 $(RELEASE_BUILD)PKGARCHIVESUFFIX= -nd
998 PKGARCHIVE=$(SRC)/../../packages/$(MACH)/nightly$(PKGARCHIVESUFFIX)
999 #
1000 #
1001 # The repositories will be created with these publisher settings. To
1002 # update an image to the resulting repositories, this must match the
1003 # publisher name provided to "pkg set-publisher."
1004 #
1005 PKGPUBLISHER_REDIST= on-nightly
1006 PKGPUBLISHER_NONREDIST= on-extra
1007 #
1008 #   Default build rules which perform comment section post-processing.
1009 #
1010 .c:
1011     $(LINK.c) -o $@ $< $(LDLIBS)
1012     $(POST_PROCESS)
1013 .c.o:
1014     $(COMPILE.c) $(OUTPUT_OPTION) $< $(CTFCONVERT_HOOK)
1015     $(POST_PROCESS_O)
1016 .c.a:
1017     $(COMPILE.c) -o $% $<
1018     $(PROCESS_COMMENT) $%
1019     $(AR) $(ARFLAGS) $@ $%
1020     $(RM) $%
1021 .s.o:
1022     $(COMPILE.s) -o $@ $<
1023     $(POST_PROCESS_O)
1024 .s.a:
1025     $(COMPILE.s) -o $% $<
1026     $(PROCESS_COMMENT) $%
1027     $(AR) $(ARFLAGS) $@ $%
1028     $(RM) $%
1029 .cc:
1030     $(LINK.cc) -o $@ $< $(LDLIBS)
1031     $(POST_PROCESS)
1032 .cc.o:
1033     $(COMPILE.cc) $(OUTPUT_OPTION) $<
1034     $(POST_PROCESS_O)
1035 .cc.a:
1036     $(COMPILE.cc) -o $% $<
1037     $(AR) $(ARFLAGS) $@ $%
1038     $(PROCESS_COMMENT) $%
1039     $(RM) $%
1040 .y:
1041     $(YACC.y) $<
1042     $(LINK.c) -o $@ y.tab.c $(LDLIBS)
1043     $(POST_PROCESS)
1044     $(RM) y.tab.c
1045 .y.o:
1046     $(YACC.y) $<
1047     $(COMPILE.c) -o $@ y.tab.c $(CTFCONVERT_HOOK)
1048     $(POST_PROCESS_O)
1049     $(RM) y.tab.c
1050 .l:

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```

1051 $(RM) $*.c
1052 $(LEX.l) $< > $*.c
1053 $(LINK.c) -o $@ $*.c -ll $(LDLIBS)
1054 $(POST_PROCESS)
1055 $(RM) $*.c
1056 .l.o:
1057 $(RM) $*.c
1058 $(LEX.l) $< > $*.c
1059 $(COMPILE.c) -o $@ $*.c $(CTFCONVERT_HOOK)
1060 $(POST_PROCESS_O)
1061 $(RM) $*.c

1063 .bin.o:
1064 $(COMPILE.b) -o $@ $<
1065 $(POST_PROCESS_O)

1067 .java.class:
1068 $(COMPILE.java) $<

1070 # Bourne and Korn shell script message catalog build rules.
1071 # We extract all gettext strings with sed(1) (being careful to permit
1072 # multiple gettext strings on the same line), weed out the dups, and
1073 # build the catalogue with awk(1).

1075 .sh.po .ksh.po:
1076 $(SED) -n -e ":a" \
1077 -e "h" \
1078 -e "s/. *gettext *\(\("[^"]*"*\)\).*\/\1/p" \
1079 -e "x" \
1080 -e "s/\(.*\)gettext *\("[^"]*"*\)\(.*\)\/\1\2/" \
1081 -e "t a" \
1082 $< | sort -u | awk '{ print "msgid\t" $$0 "\nmsgstr" }' > $@

1084 #
1085 # Python and Perl executable and message catalog build rules.
1086 #
1087 .SUFFIXES: .pl .pm .py .pyc

1089 .pl:
1090 $(RM) $@;
1091 $(SED) -e "s@TEXT_DOMAIN@\"$(TEXT_DOMAIN)\@" $< > $@;
1092 $(CHMOD) +x $@

1094 .py:
1095 $(RM) $@; $(CAT) $< > $@; $(CHMOD) +x $@

1097 .py.pyc:
1098 $(RM) $@
1099 $(PYTHON) -mpy_compile $<
1100 @[ $(<)c = $@ ] || $(MV) $(<)c $@

1102 .py.po:
1103 $(GNUXGETTEXT) $(GNUXGETFLAGS) -d $(<F:%.py=%) $< ;

1105 .pl.po .pm.po:
1106 $(XGETTEXT) $(XGETTEXTFLAGS) -d $(<F) $< ;
1107 $(RM) $@ ;
1108 $(SED) "/^domain/d" < $(<F).po > $@ ;
1109 $(RM) $(<F).po

1111 #
1112 # When using xgettext, we want messages to go to the default domain,
1113 # rather than the specified one. This special version of the
1114 # COMPILER.cpp macro effectively prevents expansion of TEXT_DOMAIN,
1115 # causing xgettext to put all messages into the default domain.
1116 #

```

```

1117 CPPFORPO=$(COMPILE.cpp:\ "$(TEXT_DOMAIN)\ "=TEXT_DOMAIN)

1119 .c.i:
1120 $(CPPFORPO) $< > $@

1122 .h.i:
1123 $(CPPFORPO) $< > $@

1125 .y.i:
1126 $(YACC) -d $<
1127 $(CPPFORPO) y.tab.c > $@
1128 $(RM) y.tab.c

1130 .l.i:
1131 $(LEX) $<
1132 $(CPPFORPO) lex.yy.c > $@
1133 $(RM) lex.yy.c

1135 .c.po:
1136 $(CPPFORPO) $< > $<.i
1137 $(BUILD.po)

1139 .y.po:
1140 $(YACC) -d $<
1141 $(CPPFORPO) y.tab.c > $<.i
1142 $(BUILD.po)
1143 $(RM) y.tab.c

1145 .l.po:
1146 $(LEX) $<
1147 $(CPPFORPO) lex.yy.c > $<.i
1148 $(BUILD.po)
1149 $(RM) lex.yy.c

1151 #
1152 # Rules to perform stylistic checks
1153 #
1154 .SUFFIXES: .x .xml .check .xmlchk

1156 .h.check:
1157 $(DOT_H_CHECK)

1159 .x.check:
1160 $(DOT_X_CHECK)

1162 .xml.xmlchk:
1163 $(MANIFEST_CHECK)

1165 #
1166 # Include rules to render automated sccs get rules "safe".
1167 #
1168 include $(SRC)/Makefile.noget

```