

```

*****
34599 Sat Dec 14 21:34:46 2013
new/usr/src/Makefile.master
4265 remove INTERNAL_RELEASE_BUILD
*****
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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13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #

22 #
23 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright (c) 2012 by Delphix. All rights reserved.
25 #

27 #
28 # Makefile.master, global definitions for system source
29 #
30 ROOT=          /proto

32 #
33 # Adjunct root, containing an additional proto area to be used for headers
34 # and libraries.
35 #
36 ADJUNCT_PROTO=

38 #
39 # Adjunct for building things that run on the build machine.
40 #
41 NATIVE_ADJUNCT= /usr

43 #
44 # RELEASE_BUILD should be cleared for final release builds.
45 # NOT_RELEASE_BUILD is exactly what the name implies.
46 #
47 # INTERNAL_RELEASE_BUILD is a subset of RELEASE_BUILD. It mostly controls
48 # identification strings. Enabling RELEASE_BUILD automatically enables
49 # INTERNAL_RELEASE_BUILD.
50 #
51 # STRIP_COMMENTS toggles comment section striping. Generally the same setting
52 # as INTERNAL_RELEASE_BUILD.
53 #
54 # __GNUC toggles the building of ON components using gcc and related tools.
55 # Normally set to '#', set it to '' to do gcc build.
56 #
57 # The declaration POUND_SIGN is always '#'. This is needed to get around the
58 # make feature that '#' is always a comment delimiter, even when escaped or
59 # quoted. We use this macro expansion method to get POUND_SIGN rather than
60 # always breaking out a shell because the general case can cause a noticeable
61 # slowdown in build times when so many Makefiles include Makefile.master.

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55 #
56 # While the majority of users are expected to override the setting below
57 # with an env file (via nightly or bldenv), if you aren't building that way
58 # (ie, you're using "ws" or some other bootstrapping method) then you need
59 # this definition in order to avoid the subshell invocation mentioned above.
60 #

62 PRE_POUND=          pre\#
63 POUND_SIGN=         $(PRE_POUND:pre\%=%)

65 NOT_RELEASE_BUILD=
66 INTERNAL_RELEASE_BUILD= $(POUND_SIGN)
67 RELEASE_BUILD=       $(POUND_SIGN)
68 $(RELEASE_BUILD)NOT_RELEASE_BUILD= $(POUND_SIGN)
69 $(RELEASE_BUILD)INTERNAL_RELEASE_BUILD=
70 PATCH_BUILD=        $(POUND_SIGN)

70 # SPARC_BLD is '#' for an Intel build.
71 # INTEL_BLD is '#' for a Sparc build.
72 SPARC_BLD_1=        $(MACH:i386=$(POUND_SIGN))
73 SPARC_BLD=          $(SPARC_BLD_1:sparc=)
74 INTEL_BLD_1=        $(MACH:sparc=$(POUND_SIGN))
75 INTEL_BLD=          $(INTEL_BLD_1:i386=)

86 STRIP_COMMENTS=    $(INTERNAL_RELEASE_BUILD)

77 # The variables below control the compilers used during the build.
78 # There are a number of permutations.
79 #
80 # __GNUC and __SUNC control (and indicate) the primary compiler. Whichever
81 # one is not POUND_SIGN is the primary, with the other as the shadow. They
82 # may also be used to control entirely compiler-specific Makefile assignments.
83 # __SUNC and Sun Studio are the default.
84 #
85 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
86 # There is no Sun C analogue.
87 #
88 # The following version-specific options are operative regardless of which
89 # compiler is primary, and control the versions of the given compilers to be
90 # used. They also allow compiler-version specific Makefile fragments.
91 #

93 __GNUC=             $(POUND_SIGN)
94 $(__GNUC)__SUNC=    $(POUND_SIGN)
95 __GNUC64=           $(__GNUC)

97 # CLOSED is the root of the tree that contains source which isn't released
98 # as open source
99 CLOSED=             $(SRC)/../closed

101 # BUILD_TOOLS is the root of all tools including compilers.
102 # ONBLD_TOOLS is the root of all the tools that are part of SUNWonbld.

104 BUILD_TOOLS=        /ws/onnv-tools
105 ONBLD_TOOLS=        $(BUILD_TOOLS)/onbld

107 JAVA_ROOT=         /usr/java

109 SFW_ROOT=           /usr/sfw
110 SFWINCDIR=          $(SFW_ROOT)/include
111 SFWLIBDIR=          $(SFW_ROOT)/lib
112 SFWLIBDIR64=        $(SFW_ROOT)/lib/$(MACH64)

114 GCC_ROOT=           /opt/gcc/4.4.4
115 GCCLIBDIR=          $(GCC_ROOT)/lib
116 GCCLIBDIR64=        $(GCC_ROOT)/lib/$(MACH64)

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

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

181 FILEMODE=   644
182 DIRMODE=    755

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184 #
185 # The version of the patch makeup table optimized for build-time use. Used
186 # during patch builds only.
187 $(PATCH_BUILD)PMTMO_FILE=$(SRC)/patch_makeup_table.mo

189 # Declare that nothing should be built in parallel.
190 # Individual Makefiles can use the .PARALLEL target to declare otherwise.
191 .NO_PARALLEL:

193 # For stylistic checks
194 #
195 # Note that the X and C checks are not used at this time and may need
196 # modification when they are actually used.
197 #
198 CSTYLE=      $(ONBLD_TOOLS)/bin/cstyle
199 CSTYLE_TAIL=
200 HDRCHK=      $(ONBLD_TOOLS)/bin/hdrchk
201 HDRCHK_TAIL=
202 JSTYLE=      $(ONBLD_TOOLS)/bin/jstyle

204 DOT_H_CHECK= \
205     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL); \
206     $(HDRCHK) $< $(HDRCHK_TAIL)

208 DOT_X_CHECK= \
209     @$(ECHO) "checking $<"; $(RPCGEN) -C -h $< | $(CSTYLE) $(CSTYLE_TAIL); \
210     $(RPCGEN) -C -h $< | $(HDRCHK) $< $(HDRCHK_TAIL)

212 DOT_C_CHECK= \
213     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL)

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

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

228 # install a link
229 INSLINKTARGET= $<
230 INS.link=    $(RM) $@; $(LN) $(INSLINKTARGET) $@
231 INS.symlink= $(RM) $@; $(SYMLINK) $(INSLINKTARGET) $@

233 #
234 # Python bakes the mtime of the .py file into the compiled .pyc and
235 # rebuilds if the baked-in mtime != the mtime of the source file
236 # (rather than only if it's less than), thus when installing python
237 # files we must make certain to not adjust the mtime of the source
238 # (.py) file.
239 #
240 INS.pyfile=  $(INS.file); $(TOUCH) -r $< $@

242 # MACH must be set in the shell environment per uname -p on the build host
243 # More specific architecture variables should be set in lower makefiles.
244 #
245 # MACH64 is derived from MACH, and BUILD64 is set to '#' for
246 # architectures on which we do not build 64-bit versions.
247 # (There are no such architectures at the moment.)
248 #

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new/usr/src/Makefile.master

5

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249 # Set BUILD64=# in the environment to disable 64-bit amd64
250 # builds on i386 machines.

252 MACH64_1=      $(MACH:sparc=sparcv9)
253 MACH64=        $(MACH64_1:i386=amd64)

255 MACH32_1=      $(MACH:sparc=sparcv7)
256 MACH32=        $(MACH32_1:i386=i86)

258 sparc_BUILD64=
259 i386_BUILD64=
260 BUILD64=       $($ (MACH)_BUILD64)

262 #
263 # C compiler mode. Future compilers may change the default on us,
264 # so force extended ANSI mode globally. Lower level makefiles can
265 # override this by setting CCMODE.
266 #
267 CCMODE=         -Xa
268 CCMODE64=      -Xa

270 #
271 # C compiler verbose mode. This is so we can enable it globally,
272 # but turn it off in the lower level makefiles of things we cannot
273 # (or aren't going to) fix.
274 #
275 CCVERBOSE=     -v

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

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

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

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

312 # One optimization the compiler might perform is to turn this:
313 #     #pragma weak foo
314 #     extern int foo;

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new/usr/src/Makefile.master

6

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315 #     if (&foo)
316 #         foo = 5;
317 # into
318 #     foo = 5;
319 # Since we do some of this (foo might be referenced in common kernel code
320 # but provided only for some cpu modules or platforms), we disable this
321 # optimization.
322 #
323 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
324 i386_CCUNBOUND  =
325 CCUNBOUND       = $($ (MACH)_CCUNBOUND)

327 #
328 # compiler '-xarch' flag. This is here to centralize it and make it
329 # overridable for testing.
330 sparc_XARCH=    -m32
331 sparcv9_XARCH=  -m64
332 i386_XARCH=     -m32
333 amd64_XARCH=    -m64 -Ui386 -U_i386

335 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
336 sparc_AS_XARCH= -xarch=v8plus
337 sparcv9_AS_XARCH= -xarch=v9
338 i386_AS_XARCH=
339 amd64_AS_XARCH= -xarch=amd64 -P -Ui386 -U_i386

341 #
342 # These flags define what we need to be 'standalone' i.e. -not- part
343 # of the rather more cosy userland environment. This basically means
344 # the kernel.
345 #
346 # XX64 future versions of gcc will make -mmodel=kernel imply -mno-red-zone
347 #
348 sparc_STAND_FLAGS=  _gcc=-ffreestanding
349 sparcv9_STAND_FLAGS= _gcc=-ffreestanding
350 # Disabling MMX also disables 3DNow, disabling SSE also disables all later
351 # additions to SSE (SSE2, AVX ,etc.)
352 NO_SIMD=           _gcc=-mno-mmx _gcc=-mno-sse
353 i386_STAND_FLAGS=  _gcc=-ffreestanding $(NO_SIMD)
354 amd64_STAND_FLAGS= -xmodel=kernel $(NO_SIMD)

356 SAVEARGS=         -Wu,-save_args
357 amd64_STAND_FLAGS += $(SAVEARGS)

359 STAND_FLAGS_32 = $($ (MACH)_STAND_FLAGS)
360 STAND_FLAGS_64 = $($ (MACH64)_STAND_FLAGS)

362 #
363 # disable the incremental linker
364 ILDOFF=           -xildoff
365 #
366 XDEPEND=          -xdepend
367 XFFLAG=           -xF=%all
368 XESS=             -xs
369 XSTRCONST=        -xstrconst

371 #
372 # turn warnings into errors (C)
373 CERRWARN = -errtags=yes -errwarn=%all
374 CERRWARN += -erroff=E_EMPTY_TRANSLATION_UNIT
375 CERRWARN += -erroff=E_STATEMENT_NOT_REACHED

377 CERRWARN += _gcc=-Wno-missing-braces
378 CERRWARN += _gcc=-Wno-sign-compare
379 CERRWARN += _gcc=-Wno-unknown-pragmas
380 CERRWARN += _gcc=-Wno-unused-parameter

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381 CERRWARN += _gcc=-Wno-missing-field-initializers
383 # Unfortunately, this option can misfire very easily and unfixably.
384 CERRWARN += _gcc=-Wno-array-bounds
386 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
387 # -nd builds
388 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-unused
389 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-empty-body
391 #
392 # turn warnings into errors (C++)
393 CCERRWARN= -xwe
395 # C99 mode
396 C99_ENABLE= -xc99=%all
397 C99_DISABLE= -xc99=%none
398 C99MODE= $(C99_DISABLE)
399 C99LMODE= $(C99MODE:-xc99%=-Xc99%)
401 # In most places, assignments to these macros should be appended with +=
402 # (CPPFLAGS.master allows values to be prepended to CPPFLAGS).
403 sparc_CFLAGS= $(sparc_XARCH) $(CCSTATICSYM)
404 sparcv9_CFLAGS= $(sparcv9_XARCH) -dalign $(CCVERBOSE) $(V9ABIWARN) $(CCREGSYM) \
405 $(CCSTATICSYM)
406 i386_CFLAGS= $(i386_XARCH)
407 amd64_CFLAGS= $(amd64_XARCH)
409 sparc_ASFLAGS= $(sparc_AS_XARCH)
410 sparcv9_ASFLAGS=$(sparcv9_AS_XARCH)
411 i386_ASFLAGS= $(i386_AS_XARCH)
412 amd64_ASFLAGS= $(amd64_AS_XARCH)
414 #
415 sparc_COPTFLAG= -xO3
416 sparcv9_COPTFLAG= -xO3
417 i386_COPTFLAG= -O
418 amd64_COPTFLAG= -xO3
420 COPTFLAG= $($(_MACH)_COPTFLAG)
421 COPTFLAG64= $($(_MACH64)_COPTFLAG)
423 # When -g is used, the compiler globalizes static objects
424 # (gives them a unique prefix). Disable that.
425 CNOGLOBAL= -W0,-noglobal
427 # Direct the Sun Studio compiler to use a static globalization prefix based on t
428 # name of the module rather than something unique. Otherwise, objects
429 # will not build deterministically, as subsequent compilations of identical
430 # source will yield objects that always look different.
431 #
432 # In the same spirit, this will also remove the date from the N_OPT stab.
433 CGLOBALSTATIC= -W0,-xglobalstatic
435 # Sometimes we want all symbols and types in debugging information even
436 # if they aren't used.
437 CALLSYMS= -W0,-xdbggen=no%usedonly
439 #
440 # Default debug format for Sun Studio 11 is dwarf, so force it to
441 # generate stabs.
442 #
443 DEBUGFORMAT= -xdebugformat=stabs
445 #
446 # Flags used to build in debug mode for ctf generation. Bugs in the Devpro

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447 # compilers currently prevent us from building with cc-emitted DWARF.
448 #
449 CTF_FLAGS_sparc = -g -Wc,-Qiselect-T1 $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)
450 CTF_FLAGS_i386 = -g $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)
452 CTF_FLAGS_sparcv9 = $(CTF_FLAGS_sparc)
453 CTF_FLAGS_amd64 = $(CTF_FLAGS_i386)
455 # Sun Studio produces broken userland code when saving arguments.
456 $(__GNUCC)CTF_FLAGS_amd64 += $(SAVEARGS)
458 CTF_FLAGS_32 = $(CTF_FLAGS_$(_MACH)) $(DEBUGFORMAT)
459 CTF_FLAGS_64 = $(CTF_FLAGS_$(_MACH64)) $(DEBUGFORMAT)
460 CTF_FLAGS = $(CTF_FLAGS_32)
462 #
463 # Flags used with genoffsets
464 #
465 GOFLAGS = -_noecho \
466 $(CALLSYMS) \
467 $(CDWARFSTR)
469 OFFSETS_CREATE = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
470 $(CC) $(GOFLAGS) $(CFLAGS) $(CPPFLAGS)
472 OFFSETS_CREATE64 = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
473 $(CC) $(GOFLAGS) $(CFLAGS64) $(CPPFLAGS)
475 #
476 # tradeoff time for space (smaller is better)
477 #
478 sparc_SPACEFLAG = -xspace -W0,-Lt
479 sparcv9_SPACEFLAG = -xspace -W0,-Lt
480 i386_SPACEFLAG = -xspace
481 amd64_SPACEFLAG =
483 SPACEFLAG = $($(_MACH)_SPACEFLAG)
484 SPACEFLAG64 = $($(_MACH64)_SPACEFLAG)
486 #
487 # The Sun Studio 11 compiler has changed the behaviour of integer
488 # wrap arounds and so a flag is needed to use the legacy behaviour
489 # (without this flag panics/hangs could be exposed within the source).
490 #
491 sparc_IROPTFLAG = -W2,-xwrap_int
492 sparcv9_IROPTFLAG = -W2,-xwrap_int
493 i386_IROPTFLAG =
494 amd64_IROPTFLAG =
496 IROPTFLAG = $($(_MACH)_IROPTFLAG)
497 IROPTFLAG64 = $($(_MACH64)_IROPTFLAG)
499 sparc_XREGSFLAG = -xregs=no%appl
500 sparcv9_XREGSFLAG = -xregs=no%appl
501 i386_XREGSFLAG =
502 amd64_XREGSFLAG =
504 XREGSFLAG = $($(_MACH)_XREGSFLAG)
505 XREGSFLAG64 = $($(_MACH64)_XREGSFLAG)
507 # dmake SOURCEDEBUG=yes ... enables source-level debugging information, and
508 # avoids stripping it.
509 SOURCEDEBUG = $(POUND_SIGN)
510 SRCDBGBLD = $(SOURCEDEBUG:yes=)
512 #

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513 # These variables are intended ONLY for use by developers to safely pass extra
514 # flags to the compilers without unintentionally overriding Makefile-set
515 # flags. They should NEVER be set to any value in a Makefile.
516 #
517 # They come last in the associated FLAGS variable such that they can
518 # explicitly override things if necessary, there are gaps in this, but it's
519 # the best we can manage.
520 #
521 CUSERFLAGS =
522 CUSERFLAGS64 = $(CUSERFLAGS)
523 CCUSERFLAGS =
524 CCUSERFLAGS64 = $(CCUSERFLAGS)

526 CSOURCEDEBUGFLAGS =
527 CCSOURCEDEBUGFLAGS =
528 $(SRCDGBLD)CSOURCEDEBUGFLAGS = -g -xs
529 $(SRCDGBLD)CCSOURCEDEBUGFLAGS = -g -xs

531 CFLAGS= $(COPTFLAG) $($ (MACH)_CFLAGS) $(SPACEFLAG) $(CCMODE) \
532 $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG) \
533 $(GLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
534 $(CUSERFLAGS)
535 CFLAGS64= $(COPTFLAG64) $($ (MACH64)_CFLAGS) $(SPACEFLAG64) $(CCMODE64) \
536 $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG64) \
537 $(GLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
538 $(CUSERFLAGS64)
539 #
540 # Flags that are used to build parts of the code that are subsequently
541 # run on the build machine (also known as the NATIVE_BUILD).
542 #
543 NATIVE_CFLAGS= $(COPTFLAG) $($ (NATIVE_MACH)_CFLAGS) $(CCMODE) \
544 $(ILDOFF) $(CERRWARN) $(C99MODE) $($ (NATIVE_MACH)_CCUNBOUND) \
545 $(IROPTFLAG) $(GLOBALSTATIC) $(CCNOAUTOINLINE) \
546 $(CSOURCEDEBUGFLAGS) $(CUSERFLAGS)

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

559 #
560 # For source message catalogue
561 #
562 .SUFFIXES: $(SUFFIXES) .i .po
563 MSGROOT= $(ROOT)/catalog
564 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)
565 MSGDOMAINPOFILE = $(MSGDOMAIN)/$(POFILE)
566 DCMSGDOMAIN= $(MSGROOT)/LC_TIME/$(TEXT_DOMAIN)
567 DCMSGDOMAINPOFILE = $(DCMSGDOMAIN)/$(DCFILE:.dc=.po)

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

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579 $(RM) $(<F).po $<.i

581 #
582 # This is overwritten by local Makefile when PROG is a list.
583 #
584 POFILE= $(PROG).po

586 sparc_CCFLAGS= -cg92 -compat=4 \
587 -Option ccfe -messages=no%anachronism \
588 $(CCERRWARN)
589 sparcv9_CCFLAGS= $(sparcv9_XARCH) -dalign -compat=5 \
590 -Option ccfe -messages=no%anachronism \
591 -Option ccfe -features=no%conststrings \
592 $(CCREGSYM) \
593 $(CCERRWARN)
594 i386_CCFLAGS= -compat=4 \
595 -Option ccfe -messages=no%anachronism \
596 -Option ccfe -features=no%conststrings \
597 $(CCERRWARN)
598 amd64_CCFLAGS= $(amd64_XARCH) -compat=5 \
599 -Option ccfe -messages=no%anachronism \
600 -Option ccfe -features=no%conststrings \
601 $(CCERRWARN)

603 sparc_CCOPTFLAG= -O
604 sparcv9_CCOPTFLAG= -O
605 i386_CCOPTFLAG= -O
606 amd64_CCOPTFLAG= -O

608 CCOPTFLAG= $($ (MACH)_CCOPTFLAG)
609 CCOPTFLAG64= $($ (MACH64)_CCOPTFLAG)
610 CCFLAGS= $(CCOPTFLAG) $($ (MACH)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
611 $(CUSERFLAGS)
612 CCFLAGS64= $(CCOPTFLAG64) $($ (MACH64)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
613 $(CCUSERFLAGS64)

615 #
616 #
617 #
618 ELFWRAP_FLAGS =
619 ELFWRAP_FLAGS64 = -64

621 #
622 # Various mapfiles that are used throughout the build, and delivered to
623 # /usr/lib/ld.
624 #
625 MAPFILE.NED_i386 = $(SRC)/common/mapfiles/common/map.noexdata
626 MAPFILE.NED_sparc =
627 MAPFILE.NED = $(MAPFILE.NED_$(MACH))
628 MAPFILE.PGA = $(SRC)/common/mapfiles/common/map.pagealign
629 MAPFILE.NES = $(SRC)/common/mapfiles/common/map.noexstk
630 MAPFILE.FLT = $(SRC)/common/mapfiles/common/map.filter
631 MAPFILE.LEX = $(SRC)/common/mapfiles/common/map.lex.yy

633 #
634 # Generated mapfiles that are compiler specific, and used throughout the
635 # build. These mapfiles are not delivered in /usr/lib/ld.
636 #
637 MAPFILE.NGB_sparc= $(SRC)/common/mapfiles/gen/sparc_cc_map.noexglobs
638 $(__GNU64)MAPFILE.NGB_sparc= \
639 $(SRC)/common/mapfiles/gen/sparc_gcc_map.noexglobs
640 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexglobs
641 $(__GNU64)MAPFILE.NGB_sparcv9= \
642 $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexglobs
643 MAPFILE.NGB_i386= $(SRC)/common/mapfiles/gen/i386_cc_map.noexglobs
644 $(__GNU64)MAPFILE.NGB_i386= \

```

```

645 $(SRC)/common/mapfiles/gen/i386_gcc_map.noexeglobs
646 MAPFILE.NGB_amd64= $(SRC)/common/mapfiles/gen/amd64_cc_map.noexeglobs
647 $(__GNUC64)MAPFILE.NGB_amd64= \
648 $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexeglobs
649 MAPFILE.NGB = $(MAPFILE.NGB_$(MACH))

651 #
652 # A generic interface mapfile name, used by various dynamic objects to define
653 # the interfaces and interposers the object must export.
654 #
655 MAPFILE.INT = mapfile-intf

657 #
658 # LDLIBS32 can be set in the environment to override the following assignment.
659 # LDLIBS64 can be set to override the assignment made in Makefile.master.64.
660 # These environment settings make sure that no libraries are searched outside
661 # of the local workspace proto area:
662 # LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
663 # LDLIBS64=-YP,$ROOT/lib:$MACH64:$ROOT/usr/lib:$MACH64
664 #
665 LDLIBS32 = $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
666 LDLIBS32 += $(ADJUNCT_PROTO:%=-L%/usr/lib -L%/lib)
667 LDLIBS.cmd = $(LDLIBS32)
668 LDLIBS.lib = $(LDLIBS32)
669 #
670 # Define compilation macros.
671 #
672 COMPILE.c= $(CC) $(CFLAGS) $(CPPFLAGS) -c
673 COMPILE64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) -c
674 COMPILE.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) -c
675 COMPILE64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) -c
676 COMPILE.s= $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
677 COMPILE64.s= $(AS) $(ASFLAGS) $(MACH64)_AS_XARCH $(AS_CPPFLAGS)
678 COMPILE.d= $(DTRACE) -G -32
679 COMPILE64.d= $(DTRACE) -G -64
680 COMPILE.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
681 COMPILE64.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

683 CLASSPATH= .
684 COMPILE.java= $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

686 #
687 # Link time macros
688 #
689 CCNEEDED = -lC
690 CCEXTNEEDED = -lCrun -lCstd
691 $(__GNUC)CCNEEDED = -L$(GCCLIBDIR) -lstc++ -lgcc_s
692 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

694 LINK.c= $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
695 LINK64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
696 NORUNPATH= -norunpath -nolib
697 LINK.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) $(NORUNPATH) \
698 $(LDFLAGS) $(CCNEEDED)
699 LINK64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
700 $(LDFLAGS) $(CCNEEDED)

702 #
703 # lint macros
704 #
705 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once
706 # ON is built with a version of lint that has the fix for 4484186.
707 #
708 ALWAYS_LINT_DEFS = -errtags=yes -s
709 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
710 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV

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```

711 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME
712 ALWAYS_LINT_DEFS += $(C99LMODE)
713 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
714 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREATE_WITHOUT_EXCL
715 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
716 # XX64 -- really only needed for amd64 lint
717 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
718 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
719 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
720 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
721 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
722 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED
723 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
724 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

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

730 SECLEVEL= core
731 LINT.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS) $(CPPFLAGS) \
732 $(ALWAYS_LINT_DEFS)
733 LINT64.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS64) $(CPPFLAGS) \
734 $(ALWAYS_LINT_DEFS)
735 LINT.s= $(LINT.c)

737 # For some future builds, NATIVE_MACH and MACH might be different.
738 # Therefore, NATIVE_MACH needs to be redefined in the
739 # environment as 'uname -p' to override this macro.
740 #
741 # For now at least, we cross-compile amd64 on i386 machines.
742 NATIVE_MACH= $(MACH:amd64=i386)

744 # Define native compilation macros
745 #

747 # Base directory where compilers are loaded.
748 # Defined here so it can be overridden by developer.
749 #
750 SPRO_ROOT= $(BUILD_TOOLS)/SUNWspro
751 SPRO_VROOT= $(SPRO_ROOT)/SS12
752 GNU_ROOT= $(SFW_ROOT)

754 # Till SS12ul formally becomes the NV CBE, LINT is hard
755 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/
756 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
757 # i386_LINT, amd64_LINT.
758 # Reset them when SS12ul is rolled out.
759 #

761 # Specify platform compiler versions for languages
762 # that we use (currently only c and c++).
763 #
764 sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
765 $(__GNUC)sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
766 sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
767 $(__GNUC)sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
768 sparc_CPP= /usr/ccs/lib/cpp
769 sparc_AS= /usr/ccs/bin/as -xregsym=no
770 sparc_LD= /usr/ccs/bin/ld
771 sparc_LINT= $(SPRO_ROOT)/sunstudio12.1/bin/lint

773 sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
774 $(__GNUC64)sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
775 sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
776 $(__GNUC64)sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++

```

```

777 sparcv9_CPP=      /usr/ccs/lib/cpp
778 sparcv9_AS=      /usr/ccs/bin/as -xregsym=no
779 sparcv9_LD=      /usr/ccs/bin/ld
780 sparcv9_LINT=    $(SPRO_ROOT)/sunstudio12.1/bin/lint

782 i386_CC=        $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
783 $(__GNUCC) i386_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
784 i386_CCC=       $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
785 $(__GNUCC) i386_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
786 i386_CPP=       /usr/ccs/lib/cpp
787 i386_AS=        /usr/ccs/bin/as
788 $(__GNUCC) i386_AS= $(ONBLD_TOOLS)/bin/$(MACH)/aw
789 i386_LD=        /usr/ccs/bin/ld
790 i386_LINT=      $(SPRO_ROOT)/sunstudio12.1/bin/lint

792 amd64_CC=       $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
793 $(__GNUCC64) amd64_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
794 amd64_CCC=      $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
795 $(__GNUCC64) amd64_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
796 amd64_CPP=      /usr/ccs/lib/cpp
797 amd64_AS=       $(ONBLD_TOOLS)/bin/$(MACH)/aw
798 amd64_LD=       /usr/ccs/bin/ld
799 amd64_LINT=     $(SPRO_ROOT)/sunstudio12.1/bin/lint

801 NATIVECC=       $(($(NATIVE_MACH)_CC))
802 NATIVECCC=      $(($(NATIVE_MACH)_CCC))
803 NATIVECPP=      $(($(NATIVE_MACH)_CPP))
804 NATIVEAS=       $(($(NATIVE_MACH)_AS))
805 NATVELD=        $(($(NATIVE_MACH)_LD))
806 NATVELINT=      $(($(NATIVE_MACH)_LINT))

808 #
809 # Makefile.master.64 overrides these settings
810 #
811 CC=              $(NATIVECC)
812 CCC=             $(NATIVECCC)
813 CPP=            $(NATIVECPP)
814 AS=             $(NATIVEAS)
815 LD=             $(NATVELD)
816 LINT=           $(NATVELINT)

818 # The real compilers used for this build
819 CW_CC_CMD=       $(CC) -_compiler
820 CW_CCC_CMD=     $(CCC) -_compiler
821 REAL_CC=        $(CW_CC_CMD:sh)
822 REAL_CCC=       $(CW_CCC_CMD:sh)

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

827 BDIRECT=        -Bdirect
828 BDYNAMIC=       -Bdynamic
829 BLOCAL=         -Blocal
830 BNODIRECT=      -Bnodirect
831 BREDUCE=        -Breduce
832 BSTATIC=        -Bstatic

834 ZDEFS=          -zdefs
835 ZDIRECT=        -zdirect
836 ZIGNORE=        -zignore
837 ZINITFIRST=    -zinitfirst
838 ZINTERPOSE=    -zinterpose
839 ZLAZYLOAD=     -zlazyload
840 ZLOADFLTR=     -zloadfltr
841 ZMULDEFS=      -zmuldefs
842 ZNODEFAULTLIB= -znodefaultlib

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843 ZNODEFS=        -znodefs
844 ZNODELETE=     -znodelete
845 ZNODLOPEN=     -znodlopen
846 ZNODUMP=       -znodump
847 ZNOLAZYLOAD=   -znolazyload
848 ZNOLDYNSYM=    -znoldynsym
849 ZNORELOC=      -znoreloc
850 ZNOVERSION=    -znoveresion
851 ZRECORD=       -zrecord
852 ZREDLOCSYM=    -zredlocsym
853 ZTEXT=         -ztext
854 ZVERBOSE=      -zverbose

856 GSHARED=       -G
857 CCMT=          -mt

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

862 sparc_C_PICFLAGS = -K pic
863 sparvcv9_C_PICFLAGS = -K pic
864 i386_C_PICFLAGS = -K pic
865 amd64_C_PICFLAGS = -K pic
866 C_PICFLAGS =      $(($(MACH)_C_PICFLAGS))
867 C_PICFLAGS64 =    $(($(MACH64)_C_PICFLAGS))

869 sparc_C_BIGPICFLAGS = -K PIC
870 sparvcv9_C_BIGPICFLAGS = -K PIC
871 i386_C_BIGPICFLAGS = -K PIC
872 amd64_C_BIGPICFLAGS = -K PIC
873 C_BIGPICFLAGS =   $(($(MACH)_C_BIGPICFLAGS))
874 C_BIGPICFLAGS64 = $(($(MACH64)_C_BIGPICFLAGS))

876 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
877 sparc_CC_PICFLAGS = -Kpic
878 sparvcv9_CC_PICFLAGS = -KPIC
879 i386_CC_PICFLAGS = -Kpic
880 amd64_CC_PICFLAGS = -Kpic
881 CC_PICFLAGS =     $(($(MACH)_CC_PICFLAGS))
882 CC_PICFLAGS64 =   $(($(MACH64)_CC_PICFLAGS))

884 AS_PICFLAGS=     $(C_PICFLAGS)
885 AS_BIGPICFLAGS=  $(C_BIGPICFLAGS)

887 #
888 # Default label for CTF sections
889 #
890 CTFCVTFLAGS=     -i -L VERSION
891 $(SRCDBGBLD)CTFCVTFLAGS += -g

893 #
894 # Override to pass module-specific flags to ctmerge. Currently used only by
895 # krtld to turn on fuzzy matching, and source-level debugging to inhibit
896 # stripping.
897 #
898 CTFMRGFLAGS=
899 $(SRCDBGBLD)CTFMRGFLAGS += -g

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

904 ELFSIGN_O=      $(TRUE)
905 ELFSIGN_CRYPT=  $(ELFSIGN_O)
906 ELFSIGN_OBJECT= $(ELFSIGN_O)

908 # Rules (normally from make.rules) and macros which are used for post

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909 # processing files. Normally, these do stripping of the comment section
910 # automatically.
911 #   RELEASE_CM:      Should be edited to reflect the release.
912 #   POST_PROCESS_O:  Post-processing for '.o' files.
913 #   POST_PROCESS_A:  Post-processing for '.a' files (currently null).
914 #   POST_PROCESS_SO: Post-processing for '.so' files.
915 #   POST_PROCESS:    Post-processing for executable files (no suffix).
916 # Note that these macros are not completely generalized as they are to be
917 # used with the file name to be processed following.
918 #
919 # It is left as an exercise to Release Engineering to embellish the generation
920 # of the release comment string.
921 #
922 #   If this is a standard development build:
923 #       compress the comment section (mcs -c)
924 #       add the standard comment (mcs -a $(RELEASE_CM))
925 #       add the development specific comment (mcs -a $(DEV_CM))
926 #
927 #   If this is an installation build:
928 #       delete the comment section (mcs -d)
929 #       add the standard comment (mcs -a $(RELEASE_CM))
930 #       add the development specific comment (mcs -a $(DEV_CM))
931 #
932 #   If this is an release build:
933 #       delete the comment section (mcs -d)
934 #       add the standard comment (mcs -a $(RELEASE_CM))
935 #
936 # The following list of macros are used in the definition of RELEASE_CM
937 # which is used to label all binaries in the build:
938 #
939 #   RELEASE      Specific release of the build, eg: 5.2
940 #   RELEASE_MAJOR Major version number part of $(RELEASE)
941 #   RELEASE_MINOR Minor version number part of $(RELEASE)
942 #   VERSION      Version of the build (alpha, beta, Generic)
943 #   PATCHID      If this is a patch this value should contain
944 #                 the patchid value (eg: "Generic 100832-01"), otherwise
945 #                 it will be set to $(VERSION)
946 #   RELEASE_DATE Date of the Release Build
947 #   PATCH_DATE   Date the patch was created, if this is blank it
948 #                 will default to the RELEASE_DATE
949 #
950 RELEASE_MAJOR= 5
951 RELEASE_MINOR= 11
952 RELEASE= $(RELEASE_MAJOR).$(RELEASE_MINOR)
953 VERSION= SunOS Development
954 PATCHID= $(VERSION)
955 RELEASE_DATE= release date not set
956 PATCH_DATE= $(RELEASE_DATE)
957 RELEASE_CM= "@($ (POUND_SIGN))SunOS $(RELEASE) $(PATCHID) $(PATCH_DATE)"
958 DEV_CM= "@($ (POUND_SIGN))SunOS Internal Development: non-nightly build"
959 #
960 PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
961 PROCESS_COMMENT= @?${MCS} -c -a $(RELEASE_CM) -a $(DEV_CM)
962 $(STRIP_COMMENTS)PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
963 $(RELEASE_BUILD)PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM)
964 #
965 STRIP_STABS= :
966 $(RELEASE_BUILD)STRIP_STABS= $(STRIP) -x $@
967 $(SRCSBGLD)STRIP_STABS= :
968 #
969 POST_PROCESS_O= $(PROCESS_COMMENT) $@
970 POST_PROCESS_A=
971 POST_PROCESS_SO= $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
972                  $(ELFSIGN_OBJECT)
973 POST_PROCESS= $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
974               $(ELFSIGN_OBJECT)

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974 #
975 # chk4ubin is a tool that inspects a module for a symbol table
976 # ELF section size which can trigger an OBP bug on older platforms.
977 # This problem affects only specific sun4u bootable modules.
978 #
979 CHK4UBIN= $(ONBLD_TOOLS)/bin/$(MACH)/chk4ubin
980 CHK4UBINFLAGS=
981 CHK4UBINARY= $(CHK4UBIN) $(CHK4UBINFLAGS) $@
982 #
983 #
984 # PKGARCHIVE specifies the default location where packages should be
985 # placed if built.
986 #
987 $(RELEASE_BUILD)PKGARCHIVESUFFIX= -nd
988 PKGARCHIVE=$(SRC)/../../packages/$(MACH)/nightly$(PKGARCHIVESUFFIX)
989 #
990 #
991 # The repositories will be created with these publisher settings. To
992 # update an image to the resulting repositories, this must match the
993 # publisher name provided to "pkg set-publisher."
994 #
995 PKGPUBLISHER_REDIST= on-nightly
996 PKGPUBLISHER_NONREDIST= on-extra
997 #
998 #   Default build rules which perform comment section post-processing.
999 #
1000 .c:
1001     $(LINK.c) -o $@ $< $(LDLIBS)
1002     $(POST_PROCESS)
1003 .c.o:
1004     $(COMPILE.c) $(OUTPUT_OPTION) $< $(CTFCONVERT_HOOK)
1005     $(POST_PROCESS_O)
1006 .c.a:
1007     $(COMPILE.c) -o $% $<
1008     $(PROCESS_COMMENT) $%
1009     $(AR) $(ARFLAGS) $@ $%
1010     $(RM) $%
1011 .s.o:
1012     $(COMPILE.s) -o $@ $<
1013     $(POST_PROCESS_O)
1014 .s.a:
1015     $(COMPILE.s) -o $% $<
1016     $(PROCESS_COMMENT) $%
1017     $(AR) $(ARFLAGS) $@ $%
1018     $(RM) $%
1019 .cc:
1020     $(LINK.cc) -o $@ $< $(LDLIBS)
1021     $(POST_PROCESS)
1022 .cc.o:
1023     $(COMPILE.cc) $(OUTPUT_OPTION) $<
1024     $(POST_PROCESS_O)
1025 .cc.a:
1026     $(COMPILE.cc) -o $% $<
1027     $(AR) $(ARFLAGS) $@ $%
1028     $(PROCESS_COMMENT) $%
1029     $(RM) $%
1030 .y:
1031     $(YACC.y) $<
1032     $(LINK.c) -o $@ y.tab.c $(LDLIBS)
1033     $(POST_PROCESS)
1034     $(RM) y.tab.c
1035 .y.o:
1036     $(YACC.y) $<
1037     $(COMPILE.c) -o $@ y.tab.c $(CTFCONVERT_HOOK)
1038     $(POST_PROCESS_O)

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1039      $(RM) y.tab.c
1040 .l:
1041      $(RM) $*.c
1042      $(LEX.l) $< > $*.c
1043      $(LINK.c) -o $@ $*.c -ll $(LDLIBS)
1044      $(POST_PROCESS)
1045      $(RM) $*.c
1046 .l.o:
1047      $(RM) $*.c
1048      $(LEX.l) $< > $*.c
1049      $(COMPILE.c) -o $@ $*.c $(CTFCONVERT_HOOK)
1050      $(POST_PROCESS_O)
1051      $(RM) $*.c

1053 .bin.o:
1054      $(COMPILE.b) -o $@ $<
1055      $(POST_PROCESS_O)

1057 .java.class:
1058      $(COMPILE.java) $<

1060 # Bourne and Korn shell script message catalog build rules.
1061 # We extract all gettext strings with sed(1) (being careful to permit
1062 # multiple gettext strings on the same line), weed out the dups, and
1063 # build the catalogue with awk(1).

1065 .sh.po .ksh.po:
1066      $(SED) -n -e ":a" \
1067              -e "h" \
1068              -e "s/.*gettext *\(\\"[^\"]*\\"*\).*\/\1/p" \
1069              -e "x" \
1070              -e "s/\(.*\)gettext *\(\"[^\"]*\\"*\).*\/\1\2/" \
1071              -e "t a" \
1072      $< | sort -u | awk '{ print "msgid\t" $$0 "\nmsgstr" }' > $@

1074 #
1075 # Python and Perl executable and message catalog build rules.
1076 #
1077 .SUFFIXES: .pl .pm .py .pyc

1079 .pl:
1080      $(RM) $@;
1081      $(SED) -e "s@TEXT_DOMAIN@\"$(TEXT_DOMAIN)\"@" $< > $@;
1082      $(CHMOD) +x $@

1084 .py:
1085      $(RM) $@; $(CAT) $< > $@; $(CHMOD) +x $@

1087 .py.pyc:
1088      $(RM) $@
1089      $(PYTHON) -mpy_compile $<
1090      @[ $(<)c = $@ ] || $(MV) $(<)c $@

1092 .py.po:
1093      $(GNUXGETTEXT) $(GNUXGETFLAGS) -d $(<F:%.py=) $< ;

1095 .pl.po .pm.po:
1096      $(XGETTEXT) $(XGETFLAGS) -d $(<F) $< ;
1097      $(RM) $@ ;
1098      $(SED) "/^domain/d" < $(<F).po > $@ ;
1099      $(RM) $(<F).po

1101 #
1102 # When using xgettext, we want messages to go to the default domain,
1103 # rather than the specified one. This special version of the
1104 # COMPILE.cpp macro effectively prevents expansion of TEXT_DOMAIN,

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1105 # causing xgettext to put all messages into the default domain.
1106 #
1107 CPPFORPO=$(COMPILE.cpp:\\"$(TEXT_DOMAIN)\"=TEXT_DOMAIN)

1109 .c.i:
1110      $(CPPFORPO) $< > $@

1112 .h.i:
1113      $(CPPFORPO) $< > $@

1115 .y.i:
1116      $(YACC) -d $<
1117      $(CPPFORPO) y.tab.c > $@
1118      $(RM) y.tab.c

1120 .l.i:
1121      $(LEX) $<
1122      $(CPPFORPO) lex.yy.c > $@
1123      $(RM) lex.yy.c

1125 .c.po:
1126      $(CPPFORPO) $< > $<.i
1127      $(BUILD.po)

1129 .y.po:
1130      $(YACC) -d $<
1131      $(CPPFORPO) y.tab.c > $<.i
1132      $(BUILD.po)
1133      $(RM) y.tab.c

1135 .l.po:
1136      $(LEX) $<
1137      $(CPPFORPO) lex.yy.c > $<.i
1138      $(BUILD.po)
1139      $(RM) lex.yy.c

1141 #
1142 # Rules to perform stylistic checks
1143 #
1144 .SUFFIXES: .x .xml .check .xmlchk

1146 .h.check:
1147      $(DOT_H_CHECK)

1149 .x.check:
1150      $(DOT_X_CHECK)

1152 .xml.xmlchk:
1153      $(MANIFEST_CHECK)

1155 #
1156 # Include rules to render automated soccs get rules "safe".
1157 #
1158 include $(SRC)/Makefile.noget

```

```

*****
3414 Sat Dec 14 21:34:46 2013
new/usr/src/cmd/sgs/libconv/Makefile.com
4265 remove INTERNAL_RELEASE_BUILD
*****
1 #
2 # CDDL HEADER START
3 #
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16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 1994, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 LIBRARY = libconv.a
27 #
28 COMOBJS32 = cap_machelf32.o dynamic_machelf32.o \
29             globals_machelf32.o sections_machelf32.o \
30             symbols_machelf32.o symbols_sparc_machelf32.o
31 #
32 COMOBJS64 = cap_machelf64.o dynamic_machelf64.o \
33             globals_machelf64.o sections_machelf64.o \
34             symbols_machelf64.o symbols_sparc_machelf64.o
35 #
36 COMOBJS= arch.o audit.o \
37          c_literal.o \
38          cap.o config.o \
39          corenote.o data.o \
40          deftag.o demangle.o \
41          dl.o dwarf.o \
42          dwarf_ehe.o dynamic.o \
43          elf.o entry.o \
44          globals.o group.o \
45          lddstub.o map.o \
46          phdr.o relocate.o \
47          relocate_i386.o relocate_amd64.o \
48          relocate_sparc.o sections.o \
49          segments.o strproc.o \
50          symbols.o syminfo.o \
51          tokens.o time.o \
52          version.o
53 #
54 ELFCAP_OBJS= elfcap.o
55 #
56 ASOBJS= vernote.o
57 #
58 BLTOBJS= arch_msg.o audit_msg.o \
59          c_literal_msg.o \
60          cap_msg.o config_msg.o \
61          corenote_msg.o

```

```

62 deftag_msg.o demangle_msg.o \
63 dl_msg.o dwarf_msg.o \
64 dwarf_ehe_msg.o dynamic_msg.o \
65 elf_msg.o entry_msg.o \
66 globals_msg.o group_msg.o \
67 map_msg.o lddstub_msg.o \
68 phdr_msg.o relocate_amd64_msg.o \
69 relocate_i386_msg.o relocate_sparc_msg.o \
70 sections_msg.o segments_msg.o \
71 symbols_msg.o symbols_sparc_msg.o \
72 syminfo_msg.o time_msg.o \
73 version_msg.o
74 #
75 #
76 OBJECTS = $(COMOBJS) $(COMOBJS32) $(COMOBJS64) $(ELFCAP_OBJS) \
77           $(ASOBJS) $(BLTOBJS)
78 #
79 #
80 # This library is unusual since it's a static archive of PIC objects.
81 # Since static archives should never contain CTF data (regardless of
82 # whether the object code is position-independent), we disable CTF.
83 #
84 NOCTFOBJS = $(OBJECTS)
85 CTFMERGE_LIB = :
86 #
87 include $(SRC)/lib/Makefile.lib
88 include $(SRC)/cmd/sgs/Makefile.com
89 #
90 CERRWARN += -_gcc=-Wno-type-limits
91 CERRWARN += -_gcc=-Wno-switch
92 #
93 CTFCONVERT_O=
94 #
95 README_REVISION=../../packages/common/readme_revision
96 ONLDDREADME=../../packages/common/SUNWorld-README
97 #
98 PICS= $(OBJECTS:%=pics/%)
99 #
100 CPPFLAGS += -I$(SRCDIR)/lib/libc/inc -I$(ELFCAP) \
101            -I$(SRC)/common/sgsrtcid
102 #
103 ARFLAGS= cr
104 #
105 AS_CPPFLAGS= -P -D_ASM $(CPPFLAGS)
106 #
107 BLTDATA= $(BLTOBJS:%.o=%.c) $(BLTOBJS:%.o=%.h) report_bufsize.h
108 #
109 SRCS= ../../common/llib-lconv
110 LINTSRCS= $(COMOBJS:%.o=../../common/%.c) \
111           $(COMOBJS_NOMSG:%.o=../../common/%.c) \
112           $(ELFCOM_OBJS:%.o=$(ELFCAP)/%.c) ../../common/lintsup.c
113 LINTSRCS32 = $(COMOBJS32:%32.o=../../common/%.c)
114 LINTSRCS64 = $(COMOBJS64:%64.o=../../common/%.c)
115 #
116 # INTERNAL_RELEASE_BUILD is defined by standard full builds (nightly),
117 # but not for sgs builds we do for development. The result of these
118 # two lines is that dev builds pass -d to the readme_revision script,
119 # generating a more detailed version string for the linker components
120 # that includes the workspace, user, CR, and date. Official builds get
121 # a simpler uncluttered version string.
122 VERNOTE_DEBUG= -d
123 $(INTERNAL_RELEASE_BUILD)VERNOTE_DEBUG=
124 #
125 #
126 SGMSGTARG= $(BLTOBJS:%_msg.o=../../common/%.msg)
127 #
128 LINTFLAGS += -u

```

new/usr/src/cmd/sgs/libconv/Makefile.com

3

119 LINTFLAGS64 += -u

121 CLEANFILES += \$(BLTDATA) \$(LINTOUTS) bld_vernote vernote.s

122 CLOBBERFILES += \$(LINTLIBS)

new/usr/src/cmd/sgs/libconv/Makefile.targ

1

```
*****
2942 Sat Dec 14 21:34:46 2013
new/usr/src/cmd/sgs/libconv/Makefile.targ
4265 remove INTERNAL_RELEASE_BUILD
*****
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18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 #
27 pics/%.o:      ../common/%.c
28               $(COMPILE.c) -o $@ $<
29               $(POST_PROCESS_O)
30 #
31 pics/%.o:      %.s
32               $(COMPILE.s) -o $@ $<
33               $(POST_PROCESS_O)
34 #
35 pics/%32.o:    ../common/%.c
36               $(COMPILE.c) -o $@ $<
37               $(POST_PROCESS_O)
38 #
39 pics/%64.o:    ../common/%.c
40               $(COMPILE.c) -D_ELF64 -o $@ $<
41               $(POST_PROCESS_O)
42 #
43 pics/elfcap.o: $(ELFCAP)/elfcap.c
44               $(COMPILE.c) -o $@ $(ELFCAP)/elfcap.c
45               $(POST_PROCESS_O)
46 #
47 # This rule generates the report_bufsize.h include file used by libconv
48 # code to ensure that their private buffer size calculations agree with
49 # the public values exposed in sgs/include/conv.h. The limit value
50 # supplied must be larger than the largest buffer used in libconv. There
51 # is little penalty for making it very large, because the header file is
52 # only included in error situations where the compilation will fail.
53 #
54 # We make this depend on Makefile.targ, because a change to Makefile.targ
55 # can change the limit, in which case we want to force everything to rebuild.
56 report_bufsize.h:      ../Makefile.targ
57                       perl ../../tools/libconv_mk_report_bufsize.pl 8000
58 #
59 ../common/%.c ../common/%_machelf.c:  %_msg.h
60 #
61 %_msg.h %_msg.c: $(SGSMMSG) ../common/%.msg report_bufsize.h
```

new/usr/src/cmd/sgs/libconv/Makefile.targ

2

```
62           $(SGSMMSG) $(SGMSGFLAGS) -h $*_msg.h -d $*_msg.c \
63           -n sgs_msg_libconv_$(*)_msg.c
64 #
65 $(SGSMMSG):      FRC
66                 @ cd $(SGSTOOLS)/$(MACH); pwd; $(MAKE) catalog
67                 @ pwd
68 #
69 vernote.s:       bld_vernote $(README_REVISION) $(ONLDREADME)
70                 ../bld_vernote \
71                 -R 'perl $(README_REVISION) $(ONLDREADME)' \
72                 -R 'perl $(README_REVISION) $(VERNOTE_DEBUG) \
73                 $(ONLDREADME)' \
74                 -r "$(RELEASE)" -o $@
75 #
76 bld_vernote:     ../common/bld_vernote.ksh
77                 $(RM) -f $@
78                 cp ../common/bld_vernote.ksh $@
79                 chmod a+x $@
80 #
81 $(LIBRARY):      pics $$$(PICS)
82                 @ $(RM) $(LIBRARY)
83                 $(AR) $(ARFLAGS) $@ $(PICS)
84                 $(POST_PROCESS_A)
85 #
86 chkmsg:          $(LINTSRCS)
87                 sh $(CHKMSG) $(CHKMSGFLAGS) $(LINTSRCS)
88 #
89 .PARALLEL:      $(LINTOUT32) $(LINTOUT64) $(LINTLIB32) $(LINTLIB64)
90 #
91 lint:            $(LINTLIB32) $(LINTOUT32) $(LINTLIB64) $(LINTOUT64) \
92                 .WAIT $(SGSLINTOUT)
93 #
94 catalog:
95                 @mkdir -p $@
96 #
97 clobber:         clean
98                 -$(RM) $(LIBRARY) $(CLOBBERFILES)
99 #
100 clean:           -$(RM) $(PICS) $(CLEANFILES)
101 #
102 delete:
103 #
104 include          $(SRC)/cmd/sgs/Makefile.targ
```

new/usr/src/cmd/sgs/libconv/common/bld_vernote.ksh

1

```
*****
2873 Sat Dec 14 21:34:46 2013
new/usr/src/cmd/sgs/libconv/common/bld_vernote.ksh
4265 remove INTERNAL_RELEASE_BUILD
*****
_____unchanged_portion_omitted_____
```

```
107 notefile=""
108 release=""
109 revision=""
```

```
111 while getopts R:o:r: c
111 while getopts DR:o:r: c
112 do
113     case $c in
114         o)
115             notefile=$OPTARG
116             ;;
117         r)
118             release=$OPTARG
119             ;;
120         R)
121             revision=$OPTARG
122             ;;
123         \?)
124             usage
125             exit 1
126             ;;
127         esac
128 done

130 if [[ ( -z $notefile ) || ( -z $release ) || ( -z $revision ) ]]; then
131     usage
132     exit 1
133 fi

136 if [[ $MACH = "sparc" ]]; then
137     build_sparcnote
138 elif [[ $MACH = "i386" ]]; then
139     build_i386note
140 else
141     echo "I don't know how to build a vernote.s for ${MACH}, so sorry"
142     exit 1
143 fi
```

1429 Sat Dec 14 21:34:46 2013

new/usr/src/cmd/sgs/packages/Makefile.com

4265 remove INTERNAL_RELEASE_BUILD

```
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18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1994, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24
25 include          $(SRC)/Makefile.master
26
27 LINTLOG=         ../lint.${MACH}.log
28
29 PKGARCHIVE=     .
30 DATAFILES=     copyright prototype_com prototype_$(MACH) postinstall \
31                preremove depend checkinstall
32 README=         SUNWorld-README
33 FILES=          $(DATAFILES) pkginfo
34 PACKAGE=        SUNWorld
35 ROOTONLD=       $(ROOT)/opt/SUNWorld
36 ROOTREADME=     $(README:%=$(ROOTONLD)/%)
37
38 VERDEBUG=       -D
39 $(INTERNAL_RELEASE_BUILD)VERDEBUG=
40
41 CLEANFILES=     $(FILES) awk_pkginfo ../bld_awk_pkginfo $(LINTLOG)
42 CLOBBERFILES=   $(PACKAGE) $(LINTLOG).bak
43
44 ../%:          ../common/%.ksh
45               $(RM) $@
46               cp $< $@
47               chmod +x $@
48
49 $(ROOTONLD)/%: ../common/%
50               $(RM) $@
51               cp $< $@
52               chmod +x $@
```

new/usr/src/tools/scripts/bldenv.sh

1

```
*****
10437 Sat Dec 14 21:34:47 2013
new/usr/src/tools/scripts/bldenv.sh
4265 remove INTERNAL_RELEASE_BUILD
*****
unchanged portion omitted
109 [+SEE ALSO?\bnightly\b(1)]
110 '

112 # main
113 builtin basename

115 # boolean flags (true/false)
116 typeset flags=(
117     typeset c=false
118     typeset f=false
119     typeset d=false
120     typeset O=false
121     typeset o=false
122     typeset t=true
123     typeset s=(
124         typeset e=false
125         typeset h=false
126         typeset d=false
127         typeset o=false
128     )
129 )

131 typeset progname="${basename -- "${0}"}"

133 OPTIND=1
134 SUFFIX="-nd"

136 while getopts -a "${progname}" "${USAGE}" OPT ; do
137     case ${OPT} in
138         c) flags.c=true ;;
139         +c) flags.c=false ;;
140         f) flags.f=true ;;
141         +f) flags.f=false ;;
142         d) flags.d=true SUFFIX="" ;;
143         +d) flags.d=false SUFFIX="-nd" ;;
144         t) flags.t=true ;;
145         +t) flags.t=false ;;
146         \?) usage ;;
147     esac
148 done
149 shift=$((OPTIND-1))

151 # test that the path to the environment-setting file was given
152 if (( $# < 1 )) ; then
153     usage
154 fi

156 # force locale to C
157 export \
158     LC_COLLATE=C \
159     LC_CTYPE=C \
160     LC_MESSAGES=C \
161     LC_MONETARY=C \
162     LC_NUMERIC=C \
163     LC_TIME=C

165 # clear environment variables we know to be bad for the build
166 unset \
167     LD_OPTIONS \
168     LD_LIBRARY_PATH \
```

new/usr/src/tools/scripts/bldenv.sh

2

```
169     LD_AUDIT \
170     LD_BIND_NOW \
171     LD_BREATH \
172     LD_CONFIG \
173     LD_DEBUG \
174     LD_FLAGS \
175     LD_LIBRARY_PATH_64 \
176     LD_NOVERSION \
177     LD_ORIGIN \
178     LD_LOADFLTR \
179     LD_NOAUXFLTR \
180     LD_NOCONFIG \
181     LD_NODIRCONFIG \
182     LD_NOOBJALTER \
183     LD_PRELOAD \
184     LD_PROFILE \
185     CONFIG \
186     GROUP \
187     OWNER \
188     REMOTE \
189     ENV \
190     ARCH \
191     CLASSPATH

193 #
194 # Setup environment variables
195 #
196 if [[ -f /etc/nightly.conf ]]; then
197     source /etc/nightly.conf
198 fi

200 if [[ -f "$1" ]]; then
201     if [[ "$1" == */* ]]; then
202         source "$1"
203     else
204         source "./$1"
205     fi
206 else
207     if [[ -f "/opt/onbld/env/$1" ]]; then
208         source "/opt/onbld/env/$1"
209     else
210         printf \
211             'Cannot find env file as either %s or /opt/onbld/env/%s\n' \
212             "$1" "$1"
213     fi
214 fi
215 fi
216 shift

218 # contents of stdenv.sh inserted after next line:
219 # STDENV_START
220 # STDENV_END

222 # Check if we have sufficient data to continue...
223 [[ -v CODEMGR_WS ]] || fatal_error "Error: Variable CODEMGR_WS not set."
224 [[ -d "${CODEMGR_WS}" ]] || fatal_error "Error: ${CODEMGR_WS} is not a directory"
225 [[ -f "${CODEMGR_WS}/usr/src/Makefile" ]] || fatal_error "Error: ${CODEMGR_WS}/u

227 # must match the getopts in nightly.sh
228 OPTIND=1
229 NIGHTLY_OPTIONS="-${NIGHTLY_OPTIONS#-}"
230 while getopts '+0AaBCDdFfGiIlMmNnopRrtUuWwXxz' FLAG "$NIGHTLY_OPTIONS"
231 do
232     case "$FLAG" in
233         o) flags.o=true ;;
234         +o) flags.o=false ;;
```

new/usr/src/tools/scripts/bldenv.sh

3

```

235         t)      flags.t=true ;;
236         +t)     flags.t=false ;;
237         *)      ;;
238     esac
239 done

241 POUND_SIGN="#"
242 # have we set RELEASE_DATE in our env file?
243 if [ -z "$RELEASE_DATE" ]; then
244     RELEASE_DATE=$(LC_ALL=C date +"%B %Y")
245 fi
246 BUILD_DATE=$(LC_ALL=C date +%Y-%b-%d)
247 BASEWSDIR=$(basename -- "${CODEMGR_WS}")
248 DEV_CM="\@(##)SunOS Internal Development: $LOGNAME $BUILD_DATE [${BASEWSDIR}]"
249 export DEV_CM RELEASE_DATE POUND_SIGN

251 export INTERNAL_RELEASE_BUILD=

251 print 'Build type is \c'
252 if ${flags.d} ; then
253     print 'DEBUG'
254     unset RELEASE_BUILD
255     unset EXTRA_OPTIONS
256     unset EXTRA_CFLAGS
257 else
258     # default is a non-DEBUG build
259     print 'non-DEBUG'
260     export RELEASE_BUILD=
261     unset EXTRA_OPTIONS
262     unset EXTRA_CFLAGS
263 fi

265 # update build-type variables
266 PKGARCHIVE="${PKGARCHIVE}${SUFFIX}"

268 # Set PATH for a build
269 PATH="/opt/onbld/bin:/opt/onbld/bin/${MACH}:/opt/SUNWspro/bin:/usr/ccs/bin:/usr/
270 if [[ "${SUNWSPRO}" != "" ]]; then
271     export PATH="${SUNWSPRO}/bin:$PATH"
272 fi

274 if [[ -n "${MAKE}" ]]; then
275     if [[ -x "${MAKE}" ]]; then
276         export PATH="$(dirname -- "${MAKE}"):$PATH"
277     else
278         print "\$MAKE (${MAKE}) is not a valid executable"
279         exit 1
280     fi
281 fi

283 TOOLS="${SRC}/tools"
284 TOOLS_PROTO="${TOOLS}/proto/root_${MACH}-nd" ; export TOOLS_PROTO

286 if "${flags.t}" ; then
287     export ONBLD_TOOLS="${ONBLD_TOOLS:=${TOOLS_PROTO}/opt/onbld}"

289     export STABS="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/stabs"
290     export CTFSTABS="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ctfstabs"
291     export GENOFFSETS="${TOOLS_PROTO}/opt/onbld/bin/genoffsets"

293     export CTFCONVERT="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ctfconvert"
294     export CTFMERGE="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ctfmerge"

296     export CTFCVTPTBL="${TOOLS_PROTO}/opt/onbld/bin/ctfcvtptbl"
297     export CTFFINDMOD="${TOOLS_PROTO}/opt/onbld/bin/ctffindmod"

```

new/usr/src/tools/scripts/bldenv.sh

4

```

299     PATH="${TOOLS_PROTO}/opt/onbld/bin/${MACH}:${PATH}"
300     PATH="${TOOLS_PROTO}/opt/onbld/bin:${PATH}"
301     export PATH
302 fi

304 export DMAKE_MODE=${DMAKE_MODE:-parallel}

306 if "${flags.o}" ; then
307     export CH=
308 else
309     unset CH
310 fi
311 DEF_STRIPFLAG="-s"

313 TMPDIR="/tmp"

315 # "o_FLAG" is used by "nightly.sh" (it may be useful to rename this
316 # variable using a more descriptive name later)
317 export o_FLAG="${flags.o} && print 'y' || print 'n'"

319 export \
320     PATH TMPDIR \
321     POUND_SIGN \
322     DEF_STRIPFLAG \
323     RELEASE_DATE
324 unset \
325     CFLAGS \
326     LD_LIBRARY_PATH

328 # a la ws
329 ENVLDLIBS1=
330 ENVLDLIBS2=
331 ENVLDLIBS3=
332 ENVCPPFLAGS1=
333 ENVCPPFLAGS2=
334 ENVCPPFLAGS3=
335 ENVCPPFLAGS4=
336 PARENT_ROOT=
337 PARENT_TOOLS_ROOT=

339 if [[ "${MULTI_PROTO}" != "yes" && "${MULTI_PROTO}" != "no" ]]; then
340     printf \
341         'WARNING: invalid value for MULTI_PROTO (%s); setting to "no".\n' \
342         "${MULTI_PROTO}"
343     export MULTI_PROTO="no"
344 fi

346 [[ "${MULTI_PROTO}" == "yes" ]] && export ROOT="${ROOT}${SUFFIX}"

348 ENVLDLIBS1="-L$ROOT/lib -L$ROOT/usr/lib"
349 ENVCPPFLAGS1="-I$ROOT/usr/include"
350 MAKEFLAGS=e

352 export \
353     ENVLDLIBS1 \
354     ENVLDLIBS2 \
355     ENVLDLIBS3 \
356     ENVCPPFLAGS1 \
357     ENVCPPFLAGS2 \
358     ENVCPPFLAGS3 \
359     ENVCPPFLAGS4 \
360     MAKEFLAGS \
361     PARENT_ROOT \
362     PARENT_TOOLS_ROOT

364 printf 'RELEASE is %s\n' "$RELEASE"

```



```
365 printf 'VERSION      is %s\n' "$VERSION"
366 printf 'RELEASE_DATE is %s\n\n' "$RELEASE_DATE"

368 if [[ -f "$SRC/Makefile" ]] && egrep -s '^setup:' "$SRC/Makefile" ; then
369     print "The top-level 'setup' target is available \c"
370     print "to build headers and tools."
371     print ""

373 elif "${flags.t}" ; then
374     printf \
375         'The tools can be (re)built with the install target in %s.\n\n' \
376         "${TOOLS}"
377 fi

379 #
380 # place ourselves in a new task, respecting BUILD_PROJECT if set.
381 #
382 /usr/bin/newtask -c $$ ${BUILD_PROJECT:+-p$BUILD_PROJECT}

384 if [[ "${flags.c}" == "false" && -x "$SHELL" && \
385     "$(basename -- "${SHELL}")" != "csh" ]]; then
386     # $SHELL is set, and it's not csh.

388     if "${flags.f}" ; then
389         print 'WARNING: -f is ignored when $SHELL is not csh'
390     fi

392     printf 'Using %s as shell.\n' "$SHELL"
393     exec "$SHELL" ${@:+-c "$@"}

395 elif "${flags.f}" ; then
396     print 'Using csh -f as shell.'
397     exec csh -f ${@:+-c "$@"}

399 else
400     print 'Using csh as shell.'
401     exec csh ${@:+-c "$@"}
402 fi

404 # not reached
```

new/usr/src/tools/scripts/nightly.1

1

```
*****
17656 Sat Dec 14 21:34:47 2013
new/usr/src/tools/scripts/nightly.1
4265 remove INTERNAL_RELEASE_BUILD
*****
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15 .\" " information: Portions Copyright [yyyy] [name of copyright owner]
16 .\" "
17 .\" " CDDL HEADER END
18 .\" "
19 .\" " Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved
20 .\" " Copyright 2012 Joshua M. Clulow <josh@sysmgr.org>
21 .\" "
22 .TH nightly 1 "6 July 2010"
23 .SH NAME
24 .I nightly
25 \- build an OS-Net consolidation overnight
26 .SH SYNOPSIS
27 \fBnightly [-in] [-V VERS] <env_file>\fP
28 .LP
29 .SH DESCRIPTION
30 .IX "OS-Net build tools" "nightly" "" "\fBnightly\fP"
31 .LP
32 .I nightly,
33 the mother of all build scripts,
34 can bringover, build, archive, package, error check, and
35 generally do everything it takes to
36 turn OS/Net consolidation source code into useful stuff.
37 It is customizable to permit you to run anything from a
38 simple build to all of the cross-checking a gatekeeper
39 needs. The advantage to using
40 .I nightly
41 is that you build things correctly, consistently and
42 automatically, with the best practices; building with
43 .I nightly
44 can mean never having to say you're sorry to your
45 gatekeeper.
46 .LP
47 More
48 specifically,
49 .I nightly
50 performs the following tasks, in order, if
51 all these things are desired:
52 .LP
53 .RS
54 .TP
55 \(\bu
56 perform a "make clobber" to clean up old binaries
57 .TP
58 \(\bu
59 bringover from the identified parent gate/clone
60 .TP
61 \(\bu
```

new/usr/src/tools/scripts/nightly.1

2

```
62 perform non-DEBUG and DEBUG builds
63 .TP
64 \(\bu
65 list proto area files and compare with previous list
66 .TP
67 \(\bu
68 copy updated proto area to parent
69 .TP
70 \(\bu
71 list shared lib interface and compare with previous list
72 .TP
73 \(\bu
74 perform a "make lint" of the kernel and report errors
75 .TP
76 \(\bu
77 perform a "make check" to report hdrchk/cstyle errors
78 .TP
79 \(\bu
80 report the presence of any core files
81 .TP
82 \(\bu
83 check the ELF runtime attributes of all dynamic objects
84 .TP
85 \(\bu
86 check for unreferenced files
87 .TP
88 \(\bu
89 report on which proto area objects have changed (since the last build)
90 .TP
91 \(\bu
92 report the total build time
93 .TP
94 \(\bu
95 save a detailed log file for reference
96 .TP
97 \(\bu
98 mail the user a summary of the completed build
99 .RE
100 .LP
101 The actions of the script are almost completely determined by
102 the environment variables in the
103 .I env
104 file, the only necessary argument. This only thing you really
105 need to use
106 .I nightly
107 is an
108 .I env
109 file that does what you want.
110 .LP
111 Like most of the other build tools in usr/src/tools, this script tends
112 to change on a fairly regular basis; do not expect to be able to build
113 OS/Net with a version of nightly significantly older than your source
114 tree. It has what is effectively a Consolidation Private relationship
115 to other build tools and with many parts of the OS/Net makefiles,
116 although it may also be used to build other consolidations.
117 .LP
118 .SH NIGHTLY_OPTIONS
119 The environment variable NIGHTLY_OPTIONS controls the actions
120 .I nightly
121 will take as it proceeds.
122 The -i, -n, +t and -V options may also be used from the command
123 line to control the actions without editing your environment file.
124 The -i and -n options complete the build more quickly by bypassing
125 some actions. If NIGHTLY_OPTIONS is not set, then "-Bmt" build
126 options will be used.
```

new/usr/src/tools/scripts/nightly.1

3

```
128 .B Basic action options
129 .TP 10
130 .B \-D
131 Do a build with DEBUG on (non-DEBUG is built by default)
132 .TP
133 .B \-F
134 Do _not_ do a non-DEBUG build (use with -D to get just a DEBUG build)
135 .TP
136 .B \-M
137 Do not run pmodes (safe file permission checker)
138 .TP
139 .B \-i
140 Do an incremental build, suppressing the "make clobber" that by
141 default removes all existing binaries and derived files. From the
142 command line, -i also suppresses the lint pass and the cstyle/hdrchk
143 pass
144 .TP
145 .B \-n
146 Suppress the bringover so that the build will start immediately with
147 current source code
148 .TP
149 .B \-o
150 Do an "old style" (pre-S10) build using root privileges to set OWNER
151 and GROUP from the Makefiles.
152 .TP
153 .B \-p
154 Create packages for regular install
155 .TP
156 .B \-U
157 Update proto area in the parent workspace
158 .TP
159 .B \-u
160 Update the parent workspace with files generated by the build, as follows.
161 .RS
162 .TP
163 \(\bu
164 Copy proto_list_${MACH} and friends to usr/src in the parent.
165 .TP
166 \(\bu
167 When used with -f, build a usr/src/unrefmaster.out in
168 the parent by merging all the usr/src/unref-${MACH}.out files in the
169 parent.
170 .TP
171 \(\bu
172 When used with -A or -r, copy the contents of the resulting
173 ELF-data.${MACH} directory to usr/src/ELF-data.${MACH} in the parent
174 workspace.
175 .RE
176 .TP
177 .B \-m
178 Send mail to $MAILTO at end of build
179 .TP
180 .B \-t
181 Build and use the tools in $SRC/tools (default setting).
182 .TP
183 .B \+t
184 Use the build tools in "$ONBLD_TOOLS/bin".

186 .LP
187 .B Code checking options
188 .TP 10
189 .B \-A
190 Check for ABI discrepancies in .so files.
191 It is only required for shared object developers when there is an
192 addition, deletion or change of interface in the .so files.
193 .TP
```

new/usr/src/tools/scripts/nightly.1

4

```
194 .B \-C
195 Check for cstyle/hdrchk errors
196 .TP
197 .B \-f
198 Check for unreferenced files. Since the full workspace must be built
199 in order to accurately identify unreferenced files, -f is ignored for
200 incremental (-i) builds, or builds that do not include -l, and -p.
201 .TP
202 .B \-r
203 Check the ELF runtime attributes of all dynamic objects
204 .TP
205 .B \-l
206 Do "make lint" in $LINTDIRS (default: $SRC n)
207 .TP
208 .B \-N
209 Do not run protocmp or checkpaths (note: this option is not
210 recommended, especially in conjunction with the \-p option)
211 .TP
212 .B \-W
213 Do not report warnings (for freeware gate ONLY)
214 .TP
215 .B \-w
216 Report which proto area objects differ between this and the last build.
217 See wsdiff(1) for details. Note that the proto areas used for comparison
218 are the last ones constructed as part of the build. As an example, if both
219 a non-debug and debug build are performed (in that order), then the debug
220 proto area will be used for comparison (which might not be what you want).
221 .LP
222 .B Groups of options
223 .TP 10
224 .B \-G
225 Gate keeper default group of options (-u)
226 .TP
227 .B \-I
228 Integration engineer default group of options (-mpu)
229 .TP
230 .B \-R
231 Default group of options for building a release (-mp)

233 .LP
234 .B Miscellaneous options
235 .TP 10
236 .B \-V VERS
237 set the build version string to VERS, overriding VERSION
238 .TP
239 .B \-X
240 Copies the proto area and packages from the IHV and IHV-bin gates into the
241 nightly proto and package areas. This is only available on i386. See
242 .B REALMODE ENVIRONMENT VARIABLES
243 and
244 .B BUILDING THE IHV WORKSPACE
245 below.

247 .LP
248 .SH ENVIRONMENT VARIABLES
249 .LP
250 Here is a list of prominent environment variables that
251 .I nightly
252 references and the meaning of each variable.
253 .LP
254 .RE
255 .B CODEMGR_WS
256 .RS 5
257 The root of your workspace, including whatever metadata is kept by
258 the source code management system. This is the workspace in which the
259 build will be done.
```

```

260 .RE
261 .LP
262 .B PARENT_WS
263 .RS 5
264 The root of the workspace that is the parent of the
265 one being built. This is particularly relevant for configurations
266 with a main
267 workspace and build workspaces underneath it; see the
268 \-u and \-U
269 options as well as the PKGARCHIVE environment variable, for more
270 information.
271 .RE
272 .LP
273 .B BRINGOVER_WS
274 .RS 5
275 This is the workspace from which
276 .I nightly
277 will fetch sources to either populate or update your workspace;
278 it defaults to $CLONE_WS.
279 .RE
280 .LP
281 .B CLOSED_BRINGOVER_WS
282 .RS 5
283 A full Mercurial workspace has two repositories: one for open source
284 and one for closed source. If this variable is non-null,
285 .I nightly
286 will pull from the repository that it names to get the closed source.
287 It defaults to $CLOSED_CLONE_WS.
288 .LP
289 If $CODEMGR_WS already exists and contains only the open repository,
290 .I nightly
291 will ignore this variable; you'll need to pull the closed repository
292 by hand if you want it.
293 .RE
294 .LP
295 .B CLONE_WS
296 .RS 5
297 This is the workspace from which
298 .I nightly
299 will fetch sources by default. This is
300 often distinct from the parent, particularly if the parent is a gate.
301 .RE
302 .LP
303 .B CLOSED_CLONE_WS
304 .RS 5
305 This is the default closed-source Mercurial repository that
306 .I nightly
307 might pull from (see
308 .B CLOSED_BRINGOVER_WS
309 for details).
310 .RE
311 .LP
312 .B SRC
313 .RS 5
314 Root of OS-Net source code, referenced by the Makefiles. It is
315 the starting point of build activity. It should be expressed
316 in terms of $CODEMGR_WS.
317 .RE
318 .LP
319 .B ROOT
320 .RS 5
321 Root of the proto area for the build. The makefiles direct
322 installation of build products to this area and
323 direct references to these files by builds of commands and other
324 targets. It should be expressed in terms of $CODEMGR_WS.
325 .LP

```

```

326 If $MULTI_PROTO is "no", $ROOT may contain a DEBUG or non-DEBUG
327 build. If $MULTI_PROTO is "yes", $ROOT contains the DEBUG build and
328 $ROOT-nd contains the non-DEBUG build.
329 .RE
330 .LP
331 .B TOOLS_ROOT
332 .RS 5
333 Root of the tools proto area for the build. The makefiles direct
334 installation of tools build products to this area. Unless \fb+t\fr
335 is part of $NIGHTLY_OPTIONS, these tools will be used during the
336 build.
337 .LP
338 As built by nightly, this will always contain non-DEBUG objects.
339 Therefore, this will always have a -nd suffix, regardless of
340 $MULTI_PROTO.
341 .RE
342 .LP
343 .B MACH
344 .RS 5
345 The instruction set architecture of the build machine as given
346 by \fiuname -p\fp, e.g. sparc, i386.
347 .RE
348 .LP
349 .B LOCKNAME
350 .RS 5
351 The name of the file used to lock out multiple runs of
352 .I nightly .
353 This should generally be left to the default setting.
354 .RE
355 .LP
356 .B ATLOG
357 .RS 5
358 The location of the log directory maintained by
359 .I nightly .
360 This should generally be left to the default setting.
361 .RE
362 .LP
363 .B LOGFILE
364 .RS 5
365 The name of the log file in the $ATLOG directory maintained by
366 .I nightly .
367 This should generally be left to the default setting.
368 .RE
369 .LP
370 .B STAFFER
371 .RS 5
372 The non-root account to use on the build machine for the
373 bringover from the clone or parent workspace.
374 This may not be the same identify used by the SCM.
375 .RE
376 .LP
377 .B MAILTO
378 .RS 5
379 The address to be used to send completion e-mail at the end of
380 the build (for the \-m option).
381 .RE
382 .LP
383 .B MAILFROM
384 .RS 5
385 The address to be used for From: in the completion e-mail at the
386 end of the build (for the \-m option).
387 .RE
388 .LP
389 .B REF_PROTO_LIST
390 .RS 5
391 Name of file used with protocmp to compare proto area contents.

```

```

392 .RE
393 .LP
394 .B PARENT_ROOT
395 .RS 5
396 The parent root, which is the destination for copying the proto
397 area(s) when using the \-U option.
398 .RE
399 .LP
400 .B PARENT_TOOLS_ROOT
401 .RS 5
402 The parent tools root, which is the destination for copying the tools
403 proto area when using the \-U option.
404 .RE
405 .LP
406 .B RELEASE
407 .RS 5
408 The release version number to be used; e.g., 5.10.1 (Note: this is set
409 in Makefile.master and should not normally be overridden).
410 .RE
411 .LP
412 .B VERSION
413 .RS 5
414 The version text string to be used; e.g., "onnv:'date '+%Y-%m-%d'".
415 .RE
416 .LP
417 .B RELEASE_DATE
418 .RS 5
419 The release date text to be used; e.g., October 2009. If not set in
420 your environment file, then this text defaults to the output from
421 $(LC_ALL=C date +"%B %Y"); e.g., "October 2009".
422 .RE
423 .LP
424 .B INTERNAL_RELEASE_BUILD
425 .RS 5
426 See Makefile.master - but it mostly controls id strings. Generally,
427 let
428 .I nightly
429 set this for you.
430 .RE
431 .LP
432 .B RELEASE_BUILD
433 .RS 5
434 Define this to build a release with a non-DEBUG kernel.
435 Generally, let
436 .I nightly
437 set this for you based on its options.
438 .RE
439 .LP
440 .B PKGARCHIVE
441 .RS 5
442 The destination for packages. This may be relative to
443 $CODEMGR_WS for private packages or relative to $PARENT_WS
444 if you have different workspaces for different architectures
445 but want one hierarchy of packages.
446 .RE
447 .LP
448 .B MAKEFLAGS
449 .RS 5
450 Set default flags to make; e.g., -k to build all targets regardless of errors.
451 .RE
452 .LP
453 .B UT_NO_USAGE_TRACKING
454 .RS 5
455 Disables usage reporting by listed Devpro tools. Otherwise it sends mail
456 to some Devpro machine every time the tools are used.
457 .RE

```

```

450 .LP
451 .B LINTDIRS
452 .RS 5
453 Directories to lint with the \-l option.
454 .RE
455 .LP
456 .B BUILD_TOOLS
457 .RS 5
458 BUILD_TOOLS is the root of all tools including the compilers; e.g.,
459 /ws/onnv-tools. It is used by the makefile system, but not nightly.
460 .RE
461 .LP
462 .B ONBLD_TOOLS
463 .RS 5
464 ONBLD_TOOLS is the root of all the tools that are part of SUNWonbld; e.g.,
465 /ws/onnv-tools/onbld. By default, it is derived from
466 .BR BUILD_TOOLS .
467 It is used by the makefile system, but not nightly.
468 .RE
469 .LP
470 .B SPRO_ROOT
471 .RS 5
472 The gate-defined default location for the Sun compilers, e.g.
473 /ws/onnv-tools/SUNWspro. By default, it is derived from
474 .BR BUILD_TOOLS .
475 It is used by the makefile system, but not nightly.
476 .RE
477 .LP
478 .B JAVA_ROOT
479 .RS 5
480 The location for the java compilers for the build, generally /usr/java.
481 .RE
482 .LP
483 .B OPTHOME
484 .RS 5
485 The gate-defined default location of things formerly in /opt; e.g.,
486 /ws/onnv-tools. This is used by nightly, but not the makefiles.
487 .RE
488 .LP
489 .B TEAMWARE
490 .RS 5
491 The gate-defined default location for the Teamware tools; e.g.,
492 /ws/onnv-tools/SUNWspro. By default, it is derived from
493 .BR OPTHOME .
494 This is used by nightly, but not the makefiles. There is no
495 corresponding variable for Mercurial or Subversion, which are assumed
496 to be installed in the default path.
497 .RE
498 .LP
499 .B ON_CLOSED_BINS
500 .RS 5
501 OpenSolaris builds do not contain the closed source tree. Instead,
502 the developer downloads a closed binaries tree and unpacks it.
503 .B ON_CLOSED_BINS
504 tells nightly
505 where to find these closed binaries, so that it can add them into the
506 build.
507 .LP
508 .RE
509 .B ON_CRYPTO_BINS
510 .RS 5
511 This is the path to a compressed tarball that contains debug
512 cryptographic binaries that have been signed to allow execution
513 outside of Sun, e.g., $PARENT_WS/packages/$MACH/on-crypto.$MACH.bz2.
514 .I nightly
515 will automatically adjust the path for non-debug builds. This tarball

```

```

516 is needed if the closed-source tree is not present. Also, it is
517 usually needed when generating OpenSolaris deliverables from a project
518 workspace. This is because most projects do not have access to the
519 necessary key and certificate that would let them sign their own
520 cryptographic binaries.
521 .LP
522 .RE
523 .B CHECK_PATHS
524 .RS 5
525 Normally, nightly runs the 'checkpaths' script to check for
526 discrepancies among the files that list paths to other files, such as
527 exception lists and req.flg. Set this flag to 'n' to disable this
528 check, which appears in the nightly output as "Check lists of files."
529 .RE
530 .LP
531 .B CHECK_DMAKE
532 .RS 5
533 Nightly validates that the version of dmake encountered is known to be
534 safe to use. Set this flag to 'n' to disable this test, allowing any
535 version of dmake to be used.
536 .RE
537 .LP
538 .B MULTI_PROTO
539 .RS 5
540 If "no" (the default),
541 .I nightly
542 will reuse $ROOT for both the DEBUG and non-DEBUG builds. If "yes",
543 the DEBUG build will go in $ROOT and the non-DEBUG build will go in
544 $ROOT-nd. Other values will be treated as "no".
545 .RE
546 .LP
547 .SH NIGHTLY HOOK ENVIRONMENT VARIABLES
548 .LP
549 Several optional environment variables may specify commands to run at
550 various points during the build. Commands specified in the hook
551 variable will be run in a subshell; command output will be appended to
552 the mail message and log file. If the hook exits with a non-zero
553 status, the build is aborted immediately. Environment variables
554 defined in the environment file will be available.
555 .LP
556 .B SYS_PRE_NIGHTLY
557 .RS 5
558 Run just after the workspace lock is acquired. This is reserved for
559 per-build-machine customizations and should be set only in /etc/nightly.conf
560 .RE
561 .LP
562 .B PRE_NIGHTLY
563 .RS 5
564 Run just after SYS_PRE_NIGHTLY.
565 .RE
566 .LP
567 .B PRE_BRINGOVER
568 .RS 5
569 Run just before bringover is started; not run if no bringover is done.
570 .RE
571 .LP
572 .B POST_BRINGOVER
573 .RS 5
574 Run just after bringover completes; not run if no bringover is done.
575 .RE
576 .LP
577 .B POST_NIGHTLY
578 .RS 5
579 Run after the build completes, with the return status of nightly - one
580 of "Completed", "Interrupted", or "Failed" - available in the
581 environment variable NIGHTLY_STATUS.

```

```

582 .RE
583 .LP
584 .B SYS_POST_NIGHTLY
585 .RS 5
586 This is reserved for per-build-machine customizations, and runs
587 immediately after POST_NIGHTLY.
588 .RE
589 .LP
590 .SH REALMODE ENVIRONMENT VARIABLES
591 .LP
592 The following environment variables referenced by
593 .I nightly
594 are only required when the -X option is used.
595 .LP
596 .RE
597 .B IA32_IHV_WS
598 .RS 5
599 Reference to the IHV workspace containing IHV driver binaries.
600 The IHV workspace must be fully built before starting the ON realmode build.
601 .LP
602 .RE
603 .B IA32_IHV_ROOT
604 .RS 5
605 Reference to the IHV workspace proto area.
606 The IHV workspace must be fully built before starting the ON realmode build.
607 .LP
608 .RE
609 .B IA32_IHV_PKGS
610 .RS 5
611 Reference to the IHV workspace packages. If this is empty or the directory
612 is non-existent, then nightly will skip copying the packages.
613 .LP
614 .RE
615 .B IA32_IHV_BINARY_PKGS
616 .RS 5
617 Reference to binary-only IHV packages. If this is empty or the directory
618 is non-existent, then nightly will skip copying the packages.
619 .LP
620 .RE
621 .B SPARC_RM_PKGARCHIVE
622 .RS 5
623 Destination for sparc realmode package SUNWrmodu.
624 Yes, this sparc package really is built on x86.
625 .SH FILES
626 .LP
627 .RS 5
628 /etc/nightly.conf
629 .RE
630 .LP
631 If present, nightly executes this file just prior to executing the
632 .I env
633 file.
634 .SH BUILDING THE IHV WORKSPACE
635 .LP
636 The IHV workspace can be built with
637 .I nightly.
638 The recommended options are:
639 .LP
640 .RS 5
641 NIGHTLY_OPTIONS="-pmWN"
642 .RE
643 .LP
644 None of the realmode environment variables needed for ON realmode builds
645 are required to build the IHV workspace.
646 .SH EXAMPLES
647 .LP

```

new/usr/src/tools/scripts/nightly.1

11

```
648 Start with the example file in usr/src/tools/env/developer.sh
649 (or gatekeeper.sh), copy to myenv and make your changes.
650 .LP
651 .PD 0
652 # grep NIGHTLY_OPTIONS myenv
653 .LP
654 NIGHTLY_OPTIONS="-ACrlapDm"
655 .LP
656 export NIGHTLY_OPTIONS
657 .LP
658 # /opt/onbld/bin/nightly -i myenv
659 .PD
660 .LP
661 .SH SEE ALSO
662 .BR bldenv (1)
```

new/usr/src/tools/scripts/nightly.sh

1

70526 Sat Dec 14 21:34:47 2013

new/usr/src/tools/scripts/nightly.sh

4265 remove INTERNAL_RELEASE_BUILD

unchanged portion omitted

756 #

757 # Functions for setting build flags (DEBUG/non-DEBUG). Keep them

758 # together.

759 #

761 function set_non_debug_build_flags {

762 export INTERNAL_RELEASE_BUILD ; INTERNAL_RELEASE_BUILD=

762 export RELEASE_BUILD ; RELEASE_BUILD=

763 unset EXTRA_OPTIONS

764 unset EXTRA_CFLAGS

765 }

767 function set_debug_build_flags {

769 export INTERNAL_RELEASE_BUILD ; INTERNAL_RELEASE_BUILD=

768 unset RELEASE_BUILD

769 unset EXTRA_OPTIONS

770 unset EXTRA_CFLAGS

771 }

unchanged portion omitted

new/usr/src/uts/Makefile.targ

1

```

*****
13794 Sat Dec 14 21:34:47 2013
new/usr/src/uts/Makefile.targ
4265 remove INTERNAL_RELEASE_BUILD
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1991, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 # This Makefiles contains the common targets and definitions for
25 # all kernels. It is to be included in the Makefiles for specific
26 # implementation architectures and processor architecture dependent
27 # modules: i.e.: all driving kernel Makefiles.
28 #
29 #
30 #
31 # Default rule for building the lint library directory:
32 #
33 $(LINT_LIB_DIR):
34     -@mkdir -p $@ 2> /dev/null
35 #
36 #
37 # All C objects depend on inline files. However, cc(1) doesn't generate
38 # the correct dependency info. Also, these Makefiles don't contain a
39 # separate list of C-derived object files (but it is light weight to
40 # let the assembler files think they depend upon this when they don't).
41 # Fortunately, the inline files won't change very often. So, for now,
42 # all objects depend on the inline files. Remove this when the inliner
43 # is fixed to drop correct dependency information.
44 #
45 $(OBJECTS): $(INLINES)
46 #
47 #
48 # Partially link .o files to generate the kmod. The fake dependency
49 # on modstubs simplifies things...
50 # ELFSIGN_MOD is defined in the individual KCF plug-in modules Makefiles,
51 # and will sign the ELF objects using elfsign(1).
52 #
53 $(BINARY): $(OBJECTS)
54     $(LD) -r $(LDFLAGS) -o $@ $(OBJECTS)
55     $(CTFMERGE_UNIQUIFY_AGAINST_GENUNIX)
56     $(POST_PROCESS)
57     $(ELFSIGN_MOD)
58 #
59 #
60 # This target checks each kmod for undefined entry points. It does not
61 # modify the kmod in any way.

```

new/usr/src/uts/Makefile.targ

2

```

62 #
63 $(MODULE).check: FRC
64     @BUILD_TYPE=DBG32 $(MAKE) $(MODULE).check.targ
65 #
66 $(MODULE).check.targ: $(BINARY) $(OBJECTS) $(EXTRA_CHECK_OBJS) $(UNIX_O) $(MOD
67     $(LD) -o /dev/null $(OBJECTS) $(EXTRA_CHECK_OBJS) $(UNIX_O) $(MODSTUBS_O)
68 #
69 #
70 # Module lint library construction targets.
71 #
72 MOD_LINT_LIB = $(LINT_LIB_DIR)/llib-1$(LINT_MODULE).ln
73 #
74 $(MOD_LINT_LIB): $(LINT_LIB_DIR) $(LINTS)
75     @-$(ECHO) "\n$(OBJDIR)/$(MODULE): (library construction):"
76     @$(LINT) -o $(LINT_MODULE)-$(OBJDIR) \
77         $(LINTFLAGS) $(LINTS) $(LTAIL)
78     @$(MV) llib-1$(LINT_MODULE)-$(OBJDIR).ln $@
79 #
80 $(LINT_MODULE).lint: $(MOD_LINT_LIB) $(LINT_LIB) $(GEN_LINT_LIB)
81     @-$(ECHO) "\n$(OBJDIR)/$(LINT_MODULE): global crosschecks:"
82     @$(LINT) $(LINTFLAGS) $(MOD_LINT_LIB) \
83         $(LINT_LIB) $(GEN_LINT_LIB) $(LTAIL)
84 #
85 #
86 # Since assym.h is a derived file, the dependency must be explicit for
87 # all files including this file. (This is only actually required in the
88 # instance when the .nse_depinfo file does not exist.) It may seem that
89 # the lint targets should also have a similar dependency, but they don't
90 # since only C headers are included when #defined(lint) is true. The
91 # actual lists are defined in */Makefile.files.
92 #
93 $(ASSYM_DEPS:%=$(OBJDIR)/%): $(DSF_DIR)/$(OBJDIR)/assym.h
94 #
95 #
96 # Everybody need to know how to create a modstubs.o built with the
97 # appropriate flags and located in the appropriate location.
98 #
99 $(MODSTUBS_O): $(MODSTUBS)
100     $(COMPILE.s) -o $@ $(MODSTUBS)
101 #
102 $(LINTS_DIR)/modstubs.ln: $(MODSTUBS)
103     @$(LHEAD) $(LINT.s) $(MODSTUBS) $(LTAIL)
104 #
105 #
106 # Build the source file which contains the kernel's utsname,
107 # with release, version and machine set as follows:
108 #
109 #     release: contents of $(RELEASE) (Spaces replaced by '_' )
110 #     version: contents of $(PATCHID) (Spaces replaced by '_' )
111 #     machine: contents of $(UNAME_M)
112 #
113 # Build environment information is only contained in the comment section.
114 #
115 # The version string, normally the variable VERSION, is set to display
116 # environmental information temporarily while in development because
117 # it provides a little more useful information.
118 #
119 VERSION_STRING = $(ECHO) $$LOGNAME [\'basename $$CODEMGR_WS\'] \\\c; date +%D)
120 $(INTERNAL_RELEASE_BUILD)VERSION_STRING = $(ECHO) $(PATCHID)
121 #
122 $(OBJDIR)/vers.o: $(OBJECTS)
123     $(COMPILE.c) -DUTS_RELEASE=\'\$(ECHO) $(RELEASE) | sed -e 's/ /_/g'\'' \
124     -DUTS_VERSION=\'\$(ECHO) $(PATCHID) | sed -e 's/ /_/g'\'' \
125     -DUTS_VERSION=\'\$(VERSION_STRING) | sed -e 's/ /_/g'\'' \
126     -DUTS_PLATFORM=\'$(UNAME_M)\'' -o $@ $(SRC)/uts/common/os/vers.c
127 #
128 $(CTFCONVERT_O)

```

new/usr/src/uts/Makefile.targ

3

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121      $(POST_PROCESS_O)
122
123 $(LINTS_DIR)/vers.ln: $(SRC)/uts/common/os/vers.c
124 @$(LHEAD) $(LINT.c) -DUTS_RELEASE="\\" -DUTS_VERSION="\\" \
125 -DUTS_PLATFORM="\\" $(SRC)/uts/common/os/vers.c $(LTAIL))
126
127 #
128 #      Installation targets and rules:
129 #
130 $(ROOT_MOD_DIR) $(USR_MOD_DIR):
131      -$(INS.dir)
132
133 $(ROOT_MOD_DIRS_32):      $(ROOT_MOD_DIR)
134      -$(INS.dir)
135
136 $(USR_MOD_DIRS_32):      $(USR_MOD_DIR)
137      -$(INS.dir)
138
139 $(ROOT_MOD_DIR)/%:      $(OBJJS_DIR)/% $(ROOT_MOD_DIR) FRC
140      $(INS.file)
141
142 $(ROOT_CPU_DIR)/%:      $(OBJJS_DIR)/% $(ROOT_CPU_DIR) FRC
143      $(INS.file)
144
145 $(ROOT_DRV_DIR)/%:      $(OBJJS_DIR)/% $(ROOT_DRV_DIR) FRC
146      $(INS.file)
147
148 $(ROOT_DTRACE_DIR)/%:  $(OBJJS_DIR)/% $(ROOT_DTRACE_DIR) FRC
149      $(INS.file)
150
151 $(ROOT_EXEC_DIR)/%:    $(OBJJS_DIR)/% $(ROOT_EXEC_DIR) FRC
152      $(INS.file)
153
154 $(ROOT_FS_DIR)/%:     $(OBJJS_DIR)/% $(ROOT_FS_DIR) FRC
155      $(INS.file)
156
157 $(ROOT_SCHED_DIR)/%:  $(OBJJS_DIR)/% $(ROOT_SCHED_DIR) FRC
158      $(INS.file)
159
160 $(ROOT SOCK_DIR)/%:   $(OBJJS_DIR)/% $(ROOT SOCK_DIR) FRC
161      $(INS.file)
162
163 $(ROOT_STRMOD_DIR)/%: $(OBJJS_DIR)/% $(ROOT_STRMOD_DIR) FRC
164      $(INS.file)
165
166 $(ROOT_IPP_DIR)/%:    $(OBJJS_DIR)/% $(ROOT_IPP_DIR) FRC
167      $(INS.file)
168
169 $(ROOT_SYS_DIR)/%:    $(OBJJS_DIR)/% $(ROOT_SYS_DIR) FRC
170      $(INS.file)
171
172 $(ROOT_MISC_DIR)/%:   $(OBJJS_DIR)/% $(ROOT_MISC_DIR) FRC
173      $(INS.file)
174
175 $(ROOT_DACF_DIR)/%:  $(OBJJS_DIR)/% $(ROOT_DACF_DIR) FRC
176      $(INS.file)
177
178 $(ROOT_BRAND_DIR)/%:  $(OBJJS_DIR)/% $(ROOT_BRAND_DIR) FRC
179      $(INS.file)
180
181 $(ROOT_CRYPTODIR)/%:  $(OBJJS_DIR)/% $(ROOT_CRYPTODIR) FRC
182      $(INS.file)
183
184 $(ROOT_KGSS_DIR)/%:   $(OBJJS_DIR)/% $(ROOT_KGSS_DIR) FRC
185      $(INS.file)

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new/usr/src/uts/Makefile.targ

4

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187 $(ROOT SCSI_VHCI_DIR)/%: $(OBJJS_DIR)/% $(ROOT SCSI_VHCI_DIR) FRC
188      $(INS.file)
189
190 $(ROOT_PMCS_FW_DIR)/%:  $(OBJJS_DIR)/% $(ROOT_PMCS_FW_DIR) FRC
191      $(INS.file)
192
193 $(ROOT_QLC_FW_DIR)/%:   $(OBJJS_DIR)/% $(ROOT_QLC_FW_DIR) FRC
194      $(INS.file)
195
196 $(ROOT_EMLXS_FW_DIR)/%: $(OBJJS_DIR)/% $(ROOT_EMLXS_FW_DIR) FRC
197      $(INS.file)
198
199 $(ROOT_MACH_DIR)/%:     $(OBJJS_DIR)/% $(ROOT_MACH_DIR) FRC
200      $(INS.file)
201
202 $(ROOT_FONT_DIR)/%:    $(OBJJS_DIR)/% $(ROOT_MOD_DIR) $(ROOT_FONT_DIR) FRC
203      $(INS.file)
204
205 $(ROOT_MAC_DIR)/%:     $(OBJJS_DIR)/% $(ROOT_MOD_DIR) $(ROOT_MAC_DIR) FRC
206      $(INS.file)
207
208 $(USR_DRV_DIR)/%:      $(OBJJS_DIR)/% $(USR_DRV_DIR) FRC
209      $(INS.file)
210
211 $(USR_EXEC_DIR)/%:     $(OBJJS_DIR)/% $(USR_EXEC_DIR) FRC
212      $(INS.file)
213
214 $(USR_FS_DIR)/%:      $(OBJJS_DIR)/% $(USR_FS_DIR) FRC
215      $(INS.file)
216
217 $(USR_SCHED_DIR)/%:   $(OBJJS_DIR)/% $(USR_SCHED_DIR) FRC
218      $(INS.file)
219
220 $(USR SOCK_DIR)/%:    $(OBJJS_DIR)/% $(USR SOCK_DIR) FRC
221      $(INS.file)
222
223 $(USR_STRMOD_DIR)/%:  $(OBJJS_DIR)/% $(USR_STRMOD_DIR) FRC
224      $(INS.file)
225
226 $(USR_SYS_DIR)/%:     $(OBJJS_DIR)/% $(USR_SYS_DIR) FRC
227      $(INS.file)
228
229 $(USR_MISC_DIR)/%:    $(OBJJS_DIR)/% $(USR_MISC_DIR) FRC
230      $(INS.file)
231
232 $(USR_DACF_DIR)/%:    $(OBJJS_DIR)/% $(USR_DACF_DIR) FRC
233      $(INS.file)
234
235 $(USR_PCBE_DIR)/%:    $(OBJJS_DIR)/% $(USR_PCBE_DIR) FRC
236      $(INS.file)
237
238 $(USR_DTRACE_DIR)/%:  $(OBJJS_DIR)/% $(USR_DTRACE_DIR) FRC
239      $(INS.file)
240
241 $(USR_BRAND_DIR)/%:   $(OBJJS_DIR)/% $(USR_BRAND_DIR) FRC
242      $(INS.file)
243
244 $(ROOT_KICONV_DIR)/%: $(OBJJS_DIR)/% $(ROOT_KICONV_DIR) FRC
245      $(INS.file)
246
247 include $(SRC)/Makefile.psm.targ
248
249 #
250 #      Target for 64b modules
251 #
252 $(ROOT_KERN_DIR_64):

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new/usr/src/uts/Makefile.targ

5

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253     -$(INS.dir)

255 $(ROOT_KERN_DIR_64)/%: $(OBJS_DIR)/% $(ROOT_KERN_DIR_64) FRC
256     $(INS.file)

258 %/$(SUBDIR64):      %
259     -$(INS.dir)

261 #
262 #     Targets for '.conf' file installation.
263 #
264 $(ROOT_CONFFILE):    $(SRC_CONFFILE) $(ROOT_CONFFILE:%/$(CONFFILE)=%)
265     $(INS.conf)

267 #
268 #     Targets for creating links between common platforms. ROOT_PLAT_LINKS
269 #     are are the /platform level while ROOT_PLAT_LINKS_2 are one level
270 #     down (/platform/'uname -i'/{lib|sbin|kernel}).
271 #
272 $(ROOT_PLAT_LINKS):
273     $(INS.slink1)

275 $(ROOT_PLAT_LINKS_2):
276     $(INS.slink2)

278 $(USR_PLAT_LINKS):
279     $(INS.slink1)

281 $(USR_PLAT_LINKS_2):
282     $(INS.slink2)

284 #
285 # multiple builds support
286 #
287 def $(DEF_DEPS)      := TARGET = def
288 all $(ALL_DEPS)     := TARGET = all
289 clean $(CLEAN_DEPS) := TARGET = clean
290 clobber $(CLOBBER_DEPS) := TARGET = clobber
291 lint $(LINT_DEPS)   := TARGET = lint
292 modlintlib $(MODLINTLIB_DEPS) := TARGET = modlintlib
293 modlist $(MODLIST_DEPS) := TARGET = modlist
294 modlist $(MODLIST_DEPS) := NO_STATE= -K $$MODSTATE$$$$
295 clean.lint $(CLEAN_LINT_DEPS) := TARGET = clean.lint
296 install $(INSTALL_DEPS) := TARGET = install
297 symcheck $(SYM_DEPS) := TARGET = symcheck

299 ALL_TARGS      = def all clean clobber lint modlintlib \
300     clean.lint lintlib install symcheck

302 ALL_OBJ32      = $(ALL_TARGS:%=%obj32)

304 $(ALL_OBJ32):  FRC
305     @BUILD_TYPE=OBJ32 VERSION='$(VERSION)' $(MAKE) $(NO_STATE) $(TARGET).tar

307 ALL_DEBUG32    = $(ALL_TARGS:%=%debug32)

309 $(ALL_DEBUG32): FRC
310     @BUILD_TYPE=DBG32 VERSION='$(VERSION)' $(MAKE) $(NO_STATE) $(TARGET).tar

312 ALL_OBJ64      = $(ALL_TARGS:%=%obj64)

314 $(ALL_OBJ64):  FRC
315     @BUILD_TYPE=OBJ64 VERSION='$(VERSION)' $(MAKE) $(NO_STATE) $(TARGET).tar

317 ALL_DEBUG64    = $(ALL_TARGS:%=%debug64)

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new/usr/src/uts/Makefile.targ

6

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319 $(ALL_DEBUG64): FRC
320     @BUILD_TYPE=DBG64 VERSION='$(VERSION)' $(MAKE) $(NO_STATE) $(TARGET).tar

322 #
323 #     Currently only the IP module needs symbol checking on obj64.
324 #     Other modules have the same global-objs nm output for debug64 and obj64.
325 #
326 $(SISCHECK_DEPS): $(DEF_DEPS)
327     @TARG='$(ECHO) $@ | $(CUT) -d'.' -f2'; \
328     MODSYMS=$(MODULE).symbols.$$TARG; \
329     if [ -f "$(MODULE).global-objs.$$TARG" ]; then \
330         $(GREP) -v '#' $(MODULE).global-objs.$$TARG | $(GREP) . | \
331         $(SORT) -u > $$MODSYMS.tmp; \
332         $(NM) $$TARG/$(MODULE) | $(GREP) OBJT | $(GREP) -v UNDEF | \
333         $(CUT) -d'|' -f8 | $(GREP) -v '^__const_' | \
334         $(GREP) -v '\.[0-9]*$$' | $(SORT) -u \
335         > $$MODSYMS.tmp.new; \
336         $(DIFF) $$MODSYMS.tmp $$MODSYMS.tmp.new > $$MODSYMS.diff || \
337         ($(ECHO) "warning: $(MODULE) symbol checking:" \
338         "global variable(s) introduced and/or removed."; \
339         $(CAT) $$MODSYMS.diff; exit 1) \
340     fi

342 $(SISCLEAN_DEPS):
343     -TARG='$(ECHO) $@ | $(CUT) -d'.' -f2'; \
344     MODSYMS=$(MODULE).symbols.$$TARG; \
345     $(RM) $$MODSYMS.tmp $$MODSYMS.tmp.new $$MODSYMS.diff Nothing_to_remove

348 $(OBJS_DIR):
349     -@mkdir -p $@ 2> /dev/null

351 def.targ:      $(OBJS_DIR) $(ALL_TARGET)

353 all.targ:      $(OBJS_DIR) $(ALL_TARGET)

355 lint.targ:     $(OBJS_DIR) $(LINT_TARGET)

357 modlintlib.targ: $(OBJS_DIR) $(MOD_LINT_LIB)

359 install.targ:  $(OBJS_DIR) $(INSTALL_TARGET)

361 #
362 # Support for Install.sh.
363 #

365 modlist:      $(MODLIST_DEPS)

367 # paths relative to $(ROOT).
368 RELMODULE = $(ROOTMODULE:$(ROOT)/%=%)
369 RELCONF = $(ROOT_CONFFILE:$(ROOT)/%=%)
370 RELLINK = $(ROOTLINK:$(ROOT)/%=%)
371 RELUNIX = $(UNIX32_LINK:$(ROOT)/%=%)
372 RELSOFTLINKS = $(ROOTSOFTLINKS:$(ROOT)/%=%)

374 MODSRC:sh=    pwd

376 #
377 # Generate module information for Install.sh, i.e., specify what files
378 # Install.sh should include. Each line looks like
379 # <tag> <srcdir> <arg1> <arg2> ...
380 # where <tag> specifies the type of file, <srcdir> gives the source
381 # path (useful if there is an error), and <argN> is one or more
382 # additional bits of information that Install.sh needs (e.g., source
383 # directory, install directory, filtering tags). See Install.sh for
384 # details on the arguments for each tag type, especially the functions

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```

385 # copymod, filtmod, and filtimpl.
386 #
387 # Changes to this target may require corresponding changes to
388 # Install.sh.
389 #
390 # Don't issue a MOD entry if it's not in the install list.
391 #

393 $(MODLIST_DEPS): FRC
394     @case $@ in \
395     *32) \
396         class=32; \
397         [ -n "$(RELMODULE)" ] && relmodule='dirname $(RELMODULE)';; \
398     *64) \
399         class=64; \
400         [ -n "$(RELMODULE)" ] && \
401             relmodule='dirname $(RELMODULE)'/$(SUBDIR64);; \
402     esac; \
403     if [ -z "$(THISIMPL)" ]; then \
404         impl=all; \
405     else \
406         impl=$(THISIMPL); \
407     fi; \
408     if [ -n "$(ROOTMODULE)" -a -n "$(INSTALL_TARGET)" ]; then \
409         if [ -z "$(MODULE)" ]; then \
410             module='basename $(ROOTMODULE)'; \
411         else \
412             module=$(MODULE); \
413         fi; \
414         tinstall="$(INSTALL_TARGET)"; \
415         for t in $$tinstall; do \
416             if [ "$(ROOTMODULE)" = $$t ]; then \
417                 echo MOD $(MODSRC) $$module $$relmodule \
418                     $$class $$impl; \
419                 break; \
420             fi \
421         done \
422     fi; \
423     if [ -n "$(CONF_SRCDIR)" ]; then \
424         tinstall="$(INSTALL_TARGET)"; \
425         for t in $$tinstall; do \
426             if [ "$(ROOT_CONFFILE)" = $$t ]; then \
427                 echo CONF $(MODSRC) $(RELCONF) \
428                     $(MODSRC)/$(CONF_SRCDIR) $$impl $$module; \
429                 break; \
430             fi \
431         done \
432     fi; \
433     if [ -n "$(ROOTLINK)" ]; then \
434         rellinks="$(RELLINK)"; \
435         for r in $$rellinks; do \
436             if [ $$class = 32 ]; then \
437                 linkdir='dirname $$r'; \
438             else \
439                 linkdir='dirname $$r'/'$(SUBDIR64)'; \
440             fi; \
441             echo LINK $(MODSRC) $$relmodule $$module \
442                 $$linkdir 'basename $$r' $$impl; \
443         done \
444     fi; \
445     if [ -n "$(UNIX32_LINK)" ]; then \
446         echo SYMLINK $(MODSRC) $(SUBDIR64)/$(UNIX) \
447             'dirname $(RELUNIX)' unix $$impl $$module; \
448     fi; \
449     trelsoftlinks="$(RELSOFTLINKS)"; \
450     for t in $$trelsoftlinks; do \

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451         if [ $$class = 32 ]; then \
452             linkdir='dirname $$t'; \
453         else \
454             linkdir='dirname $$t'/'$(SUBDIR64)'; \
455         fi; \
456         linkname='basename $$t'; \
457         echo SYMLINK $(MODSRC) $(MODULE) $$linkdir $$linkname \
458             $$impl $$module; \
459     done

461 #
462 # Cleanliness is next to ...
463 #
464 clean.targ:
465     -$(RM) $(CLEANFILES) Nothing_to_remove

467 clobber.targ:
468     -$(RM) $(CLOBBERFILES) Nothing_to_remove

470 clean.lint.targ:
471     -$(RM) $(CLEANLINTFILES) Nothing_to_remove

473 #
474 # Create fake lintlibs in the 64b dirs so
475 # global linting works
476 #
477 lint64:
478     @$(ECHO) $(MODULE) fake lints
479     @for dir in $(LINT64_DIRS); do \
480         if [ ! -d $$dir ]; then mkdir $$dir; fi \
481     done
482     @for file in $(LINT64_FILES); do \
483         if [ ! -f $$file ]; then touch $$file; fi \
484     done

486 #
487 # In some places we also need to create fake lintlibs for 32b
488 # dirs so global linting works
489 #
490 lint32:
491     @$(ECHO) $(MODULE) fake lints
492     @for dir in $(LINT32_DIRS); do \
493         if [ ! -d $$dir ]; then mkdir $$dir; fi \
494     done
495     @for file in $(LINT32_FILES); do \
496         if [ ! -f $$file ]; then touch $$file; fi \
497     done

499 FRC:

```