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*****
34728 Thu Aug 15 11:59:59 2013
new/usr/src/Makefile.master
4029 remove tonic build bits
*****
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.
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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 #
21 #
22 #
23 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright (c) 2012 by Delphix. All rights reserved.
25 #
26 #
27 #
28 # Makefile.master, global definitions for system source
29 #
30 ROOT=          /proto
31 #
32 #
33 # RELEASE_BUILD should be cleared for final release builds.
34 # NOT_RELEASE_BUILD is exactly what the name implies.
35 #
36 # INTERNAL_RELEASE_BUILD is a subset of RELEASE_BUILD. It mostly controls
37 # identification strings. Enabling RELEASE_BUILD automatically enables
38 # INTERNAL_RELEASE_BUILD.
39 #
40 # STRIP_COMMENTS toggles comment section striping. Generally the same setting
41 # as INTERNAL_RELEASE_BUILD.
42 #
43 # __GNUC toggles the building of ON components using gcc and related tools.
44 # Normally set to '#', set it to '' to do gcc build.
45 #
46 # The declaration POUND_SIGN is always '#'. This is needed to get around the
47 # make feature that '#' is always a comment delimiter, even when escaped or
48 # quoted. We use this macro expansion method to get POUND_SIGN rather than
49 # always breaking out a shell because the general case can cause a noticable
50 # slowdown in build times when so many Makefiles include Makefile.master.
51 #
52 # While the majority of users are expected to override the setting below
53 # with an env file (via nightly or bldenv), if you aren't building that way
54 # (ie, you're using "ws" or some other bootstrapping method) then you need
55 # this definition in order to avoid the subshell invocation mentioned above.
56 #
57 #
58 PRE_POUND=      pre\#
59 POUND_SIGN=     $(PRE_POUND:pre\#=%)
60 #
61 NOT_RELEASE_BUILD=

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62 INTERNAL_RELEASE_BUILD=      $(POUND_SIGN)
63 RELEASE_BUILD=                $(POUND_SIGN)
64 $(RELEASE_BUILD)NOT_RELEASE_BUILD= $(POUND_SIGN)
65 $(RELEASE_BUILD)INTERNAL_RELEASE_BUILD= $(POUND_SIGN)
66 PATCH_BUILD=                  $(POUND_SIGN)
67 #
68 # SPARC_BLD is '#' for an Intel build.
69 # INTEL_BLD is '#' for a Sparc build.
70 SPARC_BLD_1=                  $(MACH:i386=$(POUND_SIGN))
71 SPARC_BLD=                     $(SPARC_BLD_1:sparc=)
72 INTEL_BLD_1=                   $(MACH:sparc=$(POUND_SIGN))
73 INTEL_BLD=                     $(INTEL_BLD_1:i386=)
74 #
75 STRIP_COMMENTS= $(INTERNAL_RELEASE_BUILD)
76 #
77 # Are we building tonic closedbins? Unless you have used the
78 # -O flag to nightly or bldenv, leave the definition of TONICBUILD
79 # as $(POUND_SIGN).
80 #
81 # IF YOU CHANGE CLOSEDROOT, you MUST change install.bin
82 # to match the new definition.
83 TONICBUILD=                    $(POUND_SIGN)
84 $(TONICBUILD)CLOSEDROOT= $(ROOT)-closed
85 #
86 #
87 #
88 # The variables below control the compilers used during the build.
89 # There are a number of permutations.
90 #
91 #
92 # __GNUC and __SUNC control (and indicate) the primary compiler. Whichever
93 # one is not POUND_SIGN is the primary, with the other as the shadow. They
94 # may also be used to control entirely compiler-specific Makefile assignments.
95 # __SUNC and Sun Studio are the default.
96 #
97 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
98 # There is no Sun C analogue.
99 #
100 #
101 # The following version-specific options are operative regardless of which
102 # compiler is primary, and control the versions of the given compilers to be
103 # used. They also allow compiler-version specific Makefile fragments.
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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=        $(SFW_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/ctfcvtpdbl
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

179 FILEMODE=   644
180 DIRMODE=    755

182 #
183 # The version of the patch makeup table optimized for build-time use.  Used

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184 # during patch builds only.
185 $(PATCH_BUILD)PMTMO_FILE=$(SRC)/patch_makeup_table.mo

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

191 # For stylistic checks
192 #
193 # Note that the X and C checks are not used at this time and may need
194 # modification when they are actually used.
195 #
196 CSTYLE=      $(ONBLD_TOOLS)/bin/cstyle
197 CSTYLE_TAIL=
198 HDRCHK=      $(ONBLD_TOOLS)/bin/hdrchk
199 HDRCHK_TAIL=
200 JSTYLE=      $(ONBLD_TOOLS)/bin/jstyle

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

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

210 DOT_C_CHECK= \
211   @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL)

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

230 #
231 # IMPORTANT:: If you change any of INS.file, INS.dir, INS.rename,
232 # INS.link or INS.symlink here, then you must also change the
233 # corresponding override definitions in $CLOSED/Makefile.tonic.
234 # If you do not do this, then the closedbins build for the OpenSolaris
235 # community will break. PS, the gatekeepers will be upset too.
220 INS.file=    $(RM) $@; $(INS) -s -m $(FILEMODE) -f $(@D) $<
221 INS.dir=     $(INS) -s -d -m $(DIRMODE) $@
222 # installs and renames at once
223 #
224 INS.rename=   $(INS.file); $(MV) $(@D)/$(<F) $@

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

231 #
232 # Python bakes the mtime of the .py file into the compiled .pyc and
233 # rebuilds if the baked-in mtime != the mtime of the source file
234 # (rather than only if it's less than), thus when installing python
235 # files we must make certain to not adjust the mtime of the source
236 # (.py) file.
237 #
238 INS.pyfile=   $(INS.file); $(TOUCH) -r $< $@

240 # MACH must be set in the shell environment per uname -p on the build host
241 # More specific architecture variables should be set in lower makefiles.
242 #
243 # MACH64 is derived from MACH, and BUILD64 is set to '#' for

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244 # architectures on which we do not build 64-bit versions.
245 # (There are no such architectures at the moment.)
246 #
247 # Set BUILD64=# in the environment to disable 64-bit amd64
248 # builds on i386 machines.

250 MACH64_1=      $(MACH:sparc=sparcv9)
251 MACH64=        $(MACH64_1:i386=amd64)

253 MACH32_1=     $(MACH:sparc=sparcv7)
254 MACH32=       $(MACH32_1:i386=i86)

256 sparc_BUILD64=
257 i386_BUILD64=
258 BUILD64=      $($(_MACH)_BUILD64)

260 #
261 # C compiler mode. Future compilers may change the default on us,
262 # so force extended ANSI mode globally. Lower level makefiles can
263 # override this by setting CCMODE.
264 #
265 CCMODE=        -Xa
266 CCMODE64=     -Xa

268 #
269 # C compiler verbose mode. This is so we can enable it globally,
270 # but turn it off in the lower level makefiles of things we cannot
271 # (or aren't going to) fix.
272 #
273 CVERBOSE=     -v

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

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

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

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

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310 # One optimization the compiler might perform is to turn this:
311 #     #pragma weak foo
312 #     extern int foo;
313 #     if (&foo)
314 #         foo = 5;
315 # into
316 #     foo = 5;
317 # Since we do some of this (foo might be referenced in common kernel code
318 # but provided only for some cpu modules or platforms), we disable this
319 # optimization.
320 #
321 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
322 i386_CCUNBOUND =
323 CCUNBOUND =     $($(_MACH)_CCUNBOUND)

325 #
326 # compiler '-xarch' flag. This is here to centralize it and make it
327 # overridable for testing.
328 sparc_XARCH=   -m32
329 sparcv9_XARCH= -m64
330 i386_XARCH=
331 amd64_XARCH=  -m64 -Ui386 -U__i386

333 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
334 sparc_AS_XARCH= -xarch=v8plus
335 sparcv9_AS_XARCH= -xarch=v9
336 i386_AS_XARCH=
337 amd64_AS_XARCH= -xarch=amd64 -P -Ui386 -U__i386

339 #
340 # These flags define what we need to be 'standalone' i.e. -not- part
341 # of the rather more cosy userland environment. This basically means
342 # the kernel.
343 #
344 # XX64 future versions of gcc will make -mmodel=kernel imply -mno-red-zone
345 #
346 sparc_STAND_FLAGS=  _gcc=-ffreestanding
347 sparcv9_STAND_FLAGS= -gcc=-ffreestanding
348 # Disabling MMX also disables 3DNow, disabling SSE also disables all later
349 # additions to SSE (SSE2, AVX ,etc.)
350 NO_SIMD=           _gcc=-mno-mmx _gcc=-mno-sse
351 i386_STAND_FLAGS=  _gcc=-ffreestanding $(NO_SIMD)
352 amd64_STAND_FLAGS= -xmodel=kernel $(NO_SIMD)

354 SAVEARGS=         -Wu,-save_args
355 amd64_STAND_FLAGS += $(SAVEARGS)

357 STAND_FLAGS_32 =  $($(_MACH)_STAND_FLAGS)
358 STAND_FLAGS_64 =  $($(_MACH64)_STAND_FLAGS)

360 #
361 # disable the incremental linker
362 ILDOFF=          -xildoff
363 #
364 XDEPEND=        -xdepend
365 XFFLAG=         -xF=%all
366 XESS=          -xs
367 XSTRCONST=     -xstrconst

369 #
370 # turn warnings into errors (C)
371 CERRWARN = -errtags=yes -errwarn=%all
372 CERRWARN += -erroff=E_EMPTY_TRANSLATION_UNIT
373 CERRWARN += -erroff=E_STATEMENT_NOT_REACHED

375 CERRWARN += _gcc=-Wno-missing-braces

```

```

376 CERRWARN += _gcc=-Wno-sign-compare
377 CERRWARN += _gcc=-Wno-unknown-pragmas
378 CERRWARN += _gcc=-Wno-unused-parameter
379 CERRWARN += _gcc=-Wno-missing-field-initializers

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

384 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
385 # -nd builds
386 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-unused
387 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-empty-body

389 #
390 # turn warnings into errors (C++)
391 CCERRWARN= -xwe

393 # C99 mode
394 C99_ENABLE= -xc99=%all
395 C99_DISABLE= -xc99=%none
396 C99MODE= $(C99_DISABLE)
397 C99LMODE= $(C99MODE:-xc99%=-Xc99%)

399 # In most places, assignments to these macros should be appended with +=
400 # (CPPFLAGS.master allows values to be prepended to CPPFLAGS).
401 sparc_CFLAGS= $(sparc_XARCH) $(CCSTATICSYM)
402 sparcv9_CFLAGS= $(sparcv9_XARCH) -dalign $(CCVERBOSE) $(V9ABIWARN) $(CCREGSYM) \
403 $(CCSTATICSYM)
404 i386_CFLAGS= $(i386_XARCH)
405 amd64_CFLAGS= $(amd64_XARCH)

407 sparc_ASFLAGS= $(sparc_AS_XARCH)
408 sparcv9_ASFLAGS=$(sparcv9_AS_XARCH)
409 i386_ASFLAGS= $(i386_AS_XARCH)
410 amd64_ASFLAGS= $(amd64_AS_XARCH)

412 #
413 sparc_COPTFLAG= -xO3
414 sparcv9_COPTFLAG= -xO3
415 i386_COPTFLAG= -O
416 amd64_COPTFLAG= -xO3

418 COPTFLAG= $($ (MACH)_COPTFLAG)
419 COPTFLAG64= $($ (MACH64)_COPTFLAG)

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

425 # Direct the Sun Studio compiler to use a static globalization prefix based on t
426 # name of the module rather than something unique. Otherwise, objects
427 # will not build deterministically, as subsequent compilations of identical
428 # source will yeild objects that always look different.
429 #
430 # In the same spirit, this will also remove the date from the N_OPT stab.
431 CGLOBALSTATIC= -W0,-xglobalstatic

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

437 #
438 # Default debug format for Sun Studio 11 is dwarf, so force it to
439 # generate stabs.
440 #
441 DEBUGFORMAT= -xdebugformat=stabs

```

```

443 #
444 # Flags used to build in debug mode for ctf generation. Bugs in the Devpro
445 # compilers currently prevent us from building with cc-emitted DWARF.
446 #
447 CTF_FLAGS_sparc = -g -Wc,-Qiselect-T1 $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)
448 CTF_FLAGS_i386 = -g $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)

450 CTF_FLAGS_sparcv9 = $(CTF_FLAGS_sparc)
451 CTF_FLAGS_amd64 = $(CTF_FLAGS_i386)

453 # Sun Studio produces broken userland code when saving arguments.
454 $(__GNUC)CTF_FLAGS_amd64 += $(SAVEARGS)

456 CTF_FLAGS_32 = $(CTF_FLAGS_$(MACH)) $(DEBUGFORMAT)
457 CTF_FLAGS_64 = $(CTF_FLAGS_$(MACH64)) $(DEBUGFORMAT)
458 CTF_FLAGS = $(CTF_FLAGS_32)

460 #
461 # Flags used with genoffsets
462 #
463 GOFLAGS = -_noecho \
464 $(CALLSYMS) \
465 $(CDWARFSTR)

467 OFFSETS_CREATE = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
468 $(CC) $(GOFLAGS) $(CFLAGS) $(CPPFLAGS)

470 OFFSETS_CREATE64 = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
471 $(CC) $(GOFLAGS) $(CFLAGS64) $(CPPFLAGS)

473 #
474 # tradeoff time for space (smaller is better)
475 #
476 sparc_SPACEFLAG = -xspace -W0,-Lt
477 sparcv9_SPACEFLAG = -xspace -W0,-Lt
478 i386_SPACEFLAG = -xspace
479 amd64_SPACEFLAG =

481 SPACEFLAG = $($ (MACH)_SPACEFLAG)
482 SPACEFLAG64 = $($ (MACH64)_SPACEFLAG)

484 #
485 # The Sun Studio 11 compiler has changed the behaviour of integer
486 # wrap arounds and so a flag is needed to use the legacy behaviour
487 # (without this flag panics/hangs could be exposed within the source).
488 #
489 sparc_IROPTFLAG = -W2,-xwrap_int
490 sparcv9_IROPTFLAG = -W2,-xwrap_int
491 i386_IROPTFLAG =
492 amd64_IROPTFLAG =

494 IROPTFLAG = $($ (MACH)_IROPTFLAG)
495 IROPTFLAG64 = $($ (MACH64)_IROPTFLAG)

497 sparc_XREGSFLAG = -xregs=no%appl
498 sparcv9_XREGSFLAG = -xregs=no%appl
499 i386_XREGSFLAG =
500 amd64_XREGSFLAG =

502 XREGSFLAG = $($ (MACH)_XREGSFLAG)
503 XREGSFLAG64 = $($ (MACH64)_XREGSFLAG)

505 # dmake SOURCEDEBUG=yes ... enables source-level debugging information, and
506 # avoids stripping it.
507 SOURCEDEBUG = $(POUND_SIGN)

```

```

508 SRCDBGBLD      = $(SOURCEDEBUG:yes=)

510 #
511 # These variables are intended ONLY for use by developers to safely pass extra
512 # flags to the compilers without unintentionally overriding Makefile-set
513 # flags.  They should NEVER be set to any value in a Makefile.
514 #
515 # They come last in the associated FLAGS variable such that they can
516 # explicitly override things if necessary, there are gaps in this, but it's
517 # the best we can manage.
518 #
519 CUSERFLAGS      =
520 CUSERFLAGS64    = $(CUSERFLAGS)
521 CCUSERFLAGS     =
522 CCUSERFLAGS64   = $(CCUSERFLAGS)

524 CSOURCEDEBUGFLAGS =
525 CCSOURCEDEBUGFLAGS =
526 $(SRCDBGBLD)CSOURCEDEBUGFLAGS = -g -xs
527 $(SRCDBGBLD)CCSOURCEDEBUGFLAGS = -g -xs

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

546 DTEXTDOM=-DTEXT_DOMAIN="\$(TEXT_DOMAIN)"      # For messaging.
547 DTS_ERRNO=-D_TS_ERRNO
548 CPPFLAGS.master=$(DTEXTDOM) $(DTS_ERRNO) \
549                 $(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) $(ENVCPPFLAGS4)
550 CPPFLAGS.native=$(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) $(ENVCPPFLAGS4)
551 CPPFLAGS=      $(CPPFLAGS.master)
552 AS_CPPFLAGS=   $(CPPFLAGS.master)
553 JAVAFLAGS=    -deprecation

555 #
556 # For source message catalogue
557 #
558 .SUFFIXES: $(SUFFIXES) .i .po
559 MSGROOT= $(ROOT)/catalog
560 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)
561 MSGDOMAINPOFILE = $(MSGDOMAIN)/$(POFILE)
562 DCMSGDOMAIN= $(MSGROOT)/LC_TIME/$(TEXT_DOMAIN)
563 DCMSGDOMAINPOFILE = $(DCMSGDOMAIN)/$(DCFILE:.dc=.po)

565 CLOBBERFILES += $(POFILE) $(POFILES)
566 COMPILE.cpp= $(CC) -E -C $(CFLAGS) $(CPPFLAGS)
567 XGETTEXT= /usr/bin/xgettext
568 XGETTEXTFLAGS= -c TRANSLATION_NOTE
569 GNUXGETTEXT= /usr/gnu/bin/xgettext
570 GNUXGETTEXTFLAGS= --add-comments=TRANSLATION_NOTE --keyword=_ \
571                 --strict --no-location --omit-header
572 BUILD.po= $(XGETTEXT) $(XGETTEXTFLAGS) -d $(<F) <.i ;\
573           $(RM)   $@ ;\

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```

574           $(SED) "/^domain/d" < $(<F).po > $@ ;\
575           $(RM) $(<F).po <.i

577 #
578 # This is overwritten by local Makefile when PROG is a list.
579 #
580 POFILE= $(PROG).po

582 sparc_CCFLAGS=      -cg92 -compat=4 \
583                     -Option ccfe -messages=no%anachronism \
584                     $(CCERRWARN)
585 sparcv9_CCFLAGS=    $(sparcv9_XARCH) -dalign -compat=5 \
586                     -Option ccfe -messages=no%anachronism \
587                     -Option ccfe -features=no%conststrings \
588                     $(CCCREGSYM) \
589                     $(CCERRWARN)
590 i386_CCFLAGS=       -compat=4 \
591                     -Option ccfe -messages=no%anachronism \
592                     -Option ccfe -features=no%conststrings \
593                     $(CCERRWARN)
594 amd64_CCFLAGS=     $(amd64_XARCH) -compat=5 \
595                     -Option ccfe -messages=no%anachronism \
596                     -Option ccfe -features=no%conststrings \
597                     $(CCERRWARN)

599 sparc_CCOPTFLAG=   -O
600 sparcv9_CCOPTFLAG= -O
601 i386_CCOPTFLAG=    -O
602 amd64_CCOPTFLAG=   -O

604 CCOPTFLAG=        $($ (MACH)_CCOPTFLAG)
605 CCOPTFLAG64=      $($ (MACH64)_CCOPTFLAG)
606 CCFLAGS=          $(CCOPTFLAG) $($ (MACH)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
607                 $(CUSERFLAGS)
608 CCFLAGS64=        $(CCOPTFLAG64) $($ (MACH64)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
609                 $(CUSERFLAGS64)

611 #
612 #
613 #
614 ELFWRAP_FLAGS =
615 ELFWRAP_FLAGS64 = -64

617 #
618 # Various mapfiles that are used throughout the build, and delivered to
619 # /usr/lib/ld.
620 #
621 MAPFILE.NED_i386 = $(SRC)/common/mapfiles/common/map.noexdata
622 MAPFILE.NED_sparc =
623 MAPFILE.NED =      $(MAPFILE.NED_$(MACH))
624 MAPFILE.PGA =      $(SRC)/common/mapfiles/common/map.pagealign
625 MAPFILE.NES =      $(SRC)/common/mapfiles/common/map.noexstk
626 MAPFILE.FLT =      $(SRC)/common/mapfiles/common/map.filter
627 MAPFILE.LEX =      $(SRC)/common/mapfiles/common/map.lex.yy

629 #
630 # Generated mapfiles that are compiler specific, and used throughout the
631 # build.  These mapfiles are not delivered in /usr/lib/ld.
632 #
633 MAPFILE.NGB_sparc= $(SRC)/common/mapfiles/gen/sparc_cc_map.noexglobs
634 $(__GNU64)MAPFILE.NGB_sparc= \
635                 $(SRC)/common/mapfiles/gen/sparc_gcc_map.noexglobs
636 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexglobs
637 $(__GNU64)MAPFILE.NGB_sparcv9= \
638                 $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexglobs
639 MAPFILE.NGB_i386=   $(SRC)/common/mapfiles/gen/i386_cc_map.noexglobs

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640 $(__GNUC64)MAPFILE.NGB_i386= \
641 $(SRC)/common/mapfiles/gen/i386_gcc_map.noexeglobs
642 MAPFILE.NGB_amd64= $(SRC)/common/mapfiles/gen/amd64_cc_map.noexeglobs
643 $(__GNUC64)MAPFILE.NGB_amd64= \
644 $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexeglobs
645 MAPFILE.NGB = $(MAPFILE.NGB_$(MACH))

647 #
648 # A generic interface mapfile name, used by various dynamic objects to define
649 # the interfaces and interposers the object must export.
650 #
651 MAPFILE.INT = mapfile-intf

653 #
654 # LDLIBS32 can be set in the environment to override the following assignment.
655 # LDLIBS64 can be set to override the assignment made in Makefile.master.64.
656 # These environment settings make sure that no libraries are searched outside
657 # of the local workspace proto area:
658 # LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
659 # LDLIBS64=-YP,$ROOT/lib/$MACH64:$ROOT/usr/lib/$MACH64
660 #
661 LDLIBS32 = $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
662 LDLIBS.cmd = $(LDLIBS32)
663 LDLIBS.lib = $(LDLIBS32)
664 #
665 # Define compilation macros.
666 #
667 COMPILE.c= $(CC) $(CFLAGS) $(CPPFLAGS) -c
668 COMPILE64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) -c
669 COMPILE.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) -c
670 COMPILE64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) -c
671 COMPILE.s= $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
672 COMPILE64.s= $(AS) $(ASFLAGS) $(MACH64)_AS_XARCH $(AS_CPPFLAGS)
673 COMPILE.d= $(DTRACE) -G -32
674 COMPILE64.d= $(DTRACE) -G -64
675 COMPILE.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
676 COMPILE64.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

678 CLASSPATH= .
679 COMPILE.java= $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

681 #
682 # Link time macros
683 #
684 CCNEEDED = -lC
685 CCEXTNEEDED = -lCrun -lCstd
686 $(__GNUC)CCNEEDED = -L$(GCCLIBDIR) -R$(GCCLIBDIR) -lstdc++ -lgcc_s
687 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

689 LINK.c= $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
690 LINK64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
691 NORUNPATH= -norunpath -nolib
692 LINK.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) $(NORUNPATH) \
693 $(LDFLAGS) $(CCNEEDED)
694 LINK64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
695 $(LDFLAGS) $(CCNEEDED)

697 #
698 # lint macros
699 #
700 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once
701 # ON is built with a version of lint that has the fix for 4484186.
702 #
703 ALWAYS_LINT_DEFS = -errtags=yes -s
704 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
705 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV

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706 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME
707 ALWAYS_LINT_DEFS += $(C99LMODE)
708 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
709 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREATE_WITHOUT_EXCL
710 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
711 # XX64 -- really only needed for amd64 lint
712 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
713 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
714 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
715 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
716 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
717 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED
718 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
719 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

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

725 SECLEVEL= core
726 LINT.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS) $(CPPFLAGS) \
727 $(ALWAYS_LINT_DEFS)
728 LINT64.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS64) $(CPPFLAGS) \
729 $(ALWAYS_LINT_DEFS)
730 LINT.s= $(LINT.c)

732 # For some future builds, NATIVE_MACH and MACH might be different.
733 # Therefore, NATIVE_MACH needs to be redefined in the
734 # environment as 'uname -p' to override this macro.
735 #
736 # For now at least, we cross-compile amd64 on i386 machines.
737 NATIVE_MACH= $(MACH:amd64=i386)

739 # Define native compilation macros
740 #

742 # Base directory where compilers are loaded.
743 # Defined here so it can be overridden by developer.
744 #
745 SPRO_ROOT= $(BUILD_TOOLS)/SUNWspro
746 SPRO_VROOT= $(SPRO_ROOT)/SS12
747 GNU_ROOT= $(SFW_ROOT)

749 # Till SS12ul formally becomes the NV CBE, LINT is hard
750 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/
751 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
752 # i386_LINT, amd64_LINT.
753 # Reset them when SS12ul is rolled out.
754 #

756 # Specify platform compiler versions for languages
757 # that we use (currently only c and c++).
758 #
759 sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
760 $(__GNUC)sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
761 sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
762 $(__GNUC)sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
763 sparc_CPP= /usr/ccs/lib/cpp
764 sparc_AS= /usr/ccs/bin/as -xregsym=no
765 sparc_LD= /usr/ccs/bin/ld
766 sparc_LINT= $(SPRO_ROOT)/sunstudio12.1/bin/lint

768 sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
769 $(__GNUC64)sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
770 sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
771 $(__GNUC64)sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++

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772 sparcv9_CPP=      /usr/ccs/lib/cpp
773 sparcv9_AS=      /usr/ccs/bin/as -xregsym=no
774 sparcv9_LD=      /usr/ccs/bin/ld
775 sparcv9_LINT=    $(SPRO_ROOT)/sunstudio12.1/bin/lint

777 i386_CC=        $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
778 $(__GNUCC) i386_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
779 i386_CCC=      $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
780 $(__GNUCC) i386_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
781 i386_CPP=      /usr/ccs/lib/cpp
782 i386_AS=      /usr/ccs/bin/as
783 $(__GNUCC) i386_AS= $(ONBLD_TOOLS)/bin/$(MACH)/aw
784 i386_LD=      /usr/ccs/bin/ld
785 i386_LINT=    $(SPRO_ROOT)/sunstudio12.1/bin/lint

787 amd64_CC=      $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
788 $(__GNUCC) amd64_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
789 amd64_CCC=    $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
790 $(__GNUCC) amd64_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
791 amd64_CPP=    /usr/ccs/lib/cpp
792 amd64_AS=    $(ONBLD_TOOLS)/bin/$(MACH)/aw
793 amd64_LD=    /usr/ccs/bin/ld
794 amd64_LINT=  $(SPRO_ROOT)/sunstudio12.1/bin/lint

796 NATIVECC=     $($ (NATIVE_MACH)_CC)
797 NATIVECCC=    $($ (NATIVE_MACH)_CCC)
798 NATIVECPP=    $($ (NATIVE_MACH)_CPP)
799 NATIVEAS=    $($ (NATIVE_MACH)_AS)
800 NATIVELD=    $($ (NATIVE_MACH)_LD)
801 NATIVELINT=  $($ (NATIVE_MACH)_LINT)

803 #
804 # Makefile.master.64 overrides these settings
805 #
806 CC=          $(NATIVECC)
807 CCC=        $(NATIVECCC)
808 CPP=        $(NATIVECPP)
809 AS=        $(NATIVEAS)
810 LD=        $(NATIVELD)
811 LINT=      $(NATIVELINT)

813 # The real compilers used for this build
814 CW_CC_CMD=   $(CC) -_compiler
815 CW_CCC_CMD= $(CCC) -_compiler
816 REAL_CC=    $(CW_CC_CMD:sh)
817 REAL_CCC=   $(CW_CCC_CMD:sh)

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

822 BDIRECT=    -Bdirect
823 BDYNAMIC=   -Bdynamic
824 BLOCAL=     -Blocal
825 BNODIRECT=  -Bnodirect
826 BREDUCE=   -Breduce
827 BSTATIC=   -Bstatic

829 ZDEFS=     -zdefs
830 ZDIRECT=   -zdirect
831 ZIGNORE=   -zignore
832 ZINITFIRST= -zinitfirst
833 ZINTERPOSE= -zinterpose
834 ZLAZYLOAD= -zlazyload
835 ZLOADFLTR= -zloadfltr
836 ZMULDEFS=  -zmuldefs
837 ZNODEFAULTLIB= -znodefaultlib

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838 ZNODEFS=    -znodefs
839 ZNODELETE=  -znodelete
840 ZNODLOPEN=  -znodlopen
841 ZNODUMP=    -znodump
842 ZNOLAZYLOAD= -znolazyload
843 ZNOLDYNSYM= -znoldynsym
844 ZNORELOC=   -znoreloc
845 ZNOVERSION= -znoverion
846 ZRECORD=   -zrecord
847 ZREDLOCSYM= -zredlocsym
848 ZTEXT=     -ztext
849 ZVERBOSE=   -zverbose

851 GSHARED=    -G
852 CCMT=      -mt

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

857 sparc_C_PICFLAGS = -K pic
858 sparvcv9_C_PICFLAGS = -K pic
859 i386_C_PICFLAGS = -K pic
860 amd64_C_PICFLAGS = -K pic
861 C_PICFLAGS = $($ (MACH)_C_PICFLAGS)
862 C_PICFLAGS64 = $($ (MACH64)_C_PICFLAGS)

864 sparc_C_BIGPICFLAGS = -K PIC
865 sparvcv9_C_BIGPICFLAGS = -K PIC
866 i386_C_BIGPICFLAGS = -K PIC
867 amd64_C_BIGPICFLAGS = -K PIC
868 C_BIGPICFLAGS = $($ (MACH)_C_BIGPICFLAGS)
869 C_BIGPICFLAGS64 = $($ (MACH64)_C_BIGPICFLAGS)

871 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
872 sparc_CC_PICFLAGS = -Kpic
873 sparvcv9_CC_PICFLAGS = -KPIC
874 i386_CC_PICFLAGS = -Kpic
875 amd64_CC_PICFLAGS = -Kpic
876 CC_PICFLAGS = $($ (MACH)_CC_PICFLAGS)
877 CC_PICFLAGS64 = $($ (MACH64)_CC_PICFLAGS)

879 AS_PICFLAGS= $(C_PICFLAGS)
880 AS_BIGPICFLAGS= $(C_BIGPICFLAGS)

882 #
883 # Default label for CTF sections
884 #
885 CTFCVTFLAGS= -i -L VERSION
886 $(SRCDBGBLD)CTFCVTFLAGS += -g

888 #
889 # Override to pass module-specific flags to ctmerge. Currently used only by
890 # krtld to turn on fuzzy matching, and source-level debugging to inhibit
891 # stripping.
892 #
893 CTFMRGFLAGS=
894 $(SRCDBGBLD)CTFMRGFLAGS += -g

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

899 ELFSIGN_O= $(TRUE)
900 ELFSIGN_CRYPT= $(ELFSIGN_O)
901 ELFSIGN_OBJECT= $(ELFSIGN_O)

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

```

```

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

955 PROCESS_COMMENT= @?${MCS} -c -a $(RELEASE_CM) -a $(DEV_CM)
956 $(STRIP_COMMENTS)PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
957 $(RELEASE_BUILD)PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM)

959 STRIP_STABS= :
960 $(RELEASE_BUILD)STRIP_STABS= $(STRIP) -x $@
961 $(SRCDGBLD)STRIP_STABS= :

963 POST_PROCESS_O= $(PROCESS_COMMENT) $@
964 POST_PROCESS_A=
965 POST_PROCESS_SO= $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
966                 $(ELFSIGN_OBJECT)
967 POST_PROCESS=    $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
968                 $(ELFSIGN_OBJECT)

```

```

970 #
971 # chk4ubin is a tool that inspects a module for a symbol table
972 # ELF section size which can trigger an OBP bug on older platforms.
973 # This problem affects only specific sun4u bootable modules.
974 #
975 CHK4UBIN=      $(ONBLD_TOOLS)/bin/$(MACH)/chk4ubin
976 CHK4UBINFLAGS=
977 CHK4UBINARY=   $(CHK4UBIN) $(CHK4UBINFLAGS) $@

979 #
980 # PKGARCHIVE specifies the default location where packages should be
981 # placed if built.
982 #
983 $(RELEASE_BUILD)PKGARCHIVESUFFIX= -nd
984 PKGARCHIVE=$(SRC)/../../packages/$(MACH)/nightly$(PKGARCHIVESUFFIX)

986 #
987 # The repositories will be created with these publisher settings. To
988 # update an image to the resulting repositories, this must match the
989 # publisher name provided to "pkg set-publisher."
990 #
991 PKGPUBLISHER_REDIST= on-nightly
992 PKGPUBLISHER_NONREDIST= on-extra

994 #   Default build rules which perform comment section post-processing.
995 #
996 .c:
997     $(LINK.c) -o $@ $< $(LDLIBS)
998     $(POST_PROCESS)
999 .c.o:
1000    $(COMPILE.c) $(OUTPUT_OPTION) $< $(CTFCONVERT_HOOK)
1001    $(POST_PROCESS_O)
1002 .c.a:
1003    $(COMPILE.c) -o $% $<
1004    $(PROCESS_COMMENT) $%
1005    $(AR) $(ARFLAGS) $@ $%
1006    $(RM) $%
1007 .s.o:
1008    $(COMPILE.s) -o $@ $<
1009    $(POST_PROCESS_O)
1010 .s.a:
1011    $(COMPILE.s) -o $% $<
1012    $(PROCESS_COMMENT) $%
1013    $(AR) $(ARFLAGS) $@ $%
1014    $(RM) $%
1015 .cc:
1016    $(LINK.cc) -o $@ $< $(LDLIBS)
1017    $(POST_PROCESS)
1018 .cc.o:
1019    $(COMPILE.cc) $(OUTPUT_OPTION) $<
1020    $(POST_PROCESS_O)
1021 .cc.a:
1022    $(COMPILE.cc) -o $% $<
1023    $(AR) $(ARFLAGS) $@ $%
1024    $(PROCESS_COMMENT) $%
1025    $(RM) $%
1026 .y:
1027    $(YACC.y) $<
1028    $(LINK.c) -o $@ y.tab.c $(LDLIBS)
1029    $(POST_PROCESS)
1030    $(RM) y.tab.c
1031 .y.o:
1032    $(YACC.y) $<
1033    $(COMPILE.c) -o $@ y.tab.c $(CTFCONVERT_HOOK)
1034    $(POST_PROCESS_O)
1035    $(RM) y.tab.c

```



```

1036 .l:
1037     $(RM) $*.c
1038     $(LEX.l) $< > $*.c
1039     $(LINK.c) -o $@ $*.c -ll $(LDLIBS)
1040     $(POST_PROCESS)
1041     $(RM) $*.c
1042 .l.o:
1043     $(RM) $*.c
1044     $(LEX.l) $< > $*.c
1045     $(COMPILE.c) -o $@ $*.c $(CTFCONVERT_HOOK)
1046     $(POST_PROCESS_O)
1047     $(RM) $*.c

1049 .bin.o:
1050     $(COMPILE.b) -o $@ $<
1051     $(POST_PROCESS_O)

1053 .java.class:
1054     $(COMPILE.java) $<

1056 # Bourne and Korn shell script message catalog build rules.
1057 # We extract all gettext strings with sed(1) (being careful to permit
1058 # multiple gettext strings on the same line), weed out the dups, and
1059 # build the catalogue with awk(1).

1061 .sh.po .ksh.po:
1062     $(SED) -n -e ":a" \
1063     -e "h" \
1064     -e "s/.*gettext *\([^\"]*\)\.*/\1/p" \
1065     -e "x" \
1066     -e "s/\(.*\)gettext *\([^\"]*\)\(.*\)/\1\2/" \
1067     -e "t a" \
1068     $< | sort -u | awk '{ print "msgid\t" $$0 "\nmsgstr" }' > $@

1070 #
1071 # Python and Perl executable and message catalog build rules.
1072 #
1073 .SUFFIXES: .pl .pm .py .pyc

1075 .pl:
1076     $(RM) $@;
1077     $(SED) -e "s@TEXT_DOMAIN@"$(TEXT_DOMAIN)"@" $< > $@;
1078     $(CHMOD) +x $@

1080 .py:
1081     $(RM) $@; $(CAT) $< > $@; $(CHMOD) +x $@

1083 .py.pyc:
1084     $(RM) $@
1085     $(PYTHON) -mpy_compile $<
1086     @[ $(<)c = $@ ] || $(MV) $(<)c $@

1088 .py.po:
1089     $(GNUXGETTEXT) $(GNUXGETFLAGS) -d $(<F:%.py=%) $< ;

1091 .pl.po .pm.po:
1092     $(XGETTEXT) $(XGETFLAGS) -d $(<F) $< ;
1093     $(RM) $@ ;
1094     $(SED) "/^domain/d" < $(<F).po > $@ ;
1095     $(RM) $(<F).po

1097 #
1098 # When using xgettext, we want messages to go to the default domain,
1099 # rather than the specified one. This special version of the
1100 # COMPILE.cpp macro effectively prevents expansion of TEXT_DOMAIN,
1101 # causing xgettext to put all messages into the default domain.

```

```

1102 #
1103 CPPFORPO=$(COMPILE.cpp:\ "$(TEXT_DOMAIN)"=TEXT_DOMAIN)

1105 .c.i:
1106     $(CPPFORPO) $< > $@

1108 .h.i:
1109     $(CPPFORPO) $< > $@

1111 .y.i:
1112     $(YACC) -d $<
1113     $(CPPFORPO) y.tab.c > $@
1114     $(RM) y.tab.c

1116 .l.i:
1117     $(LEX) $<
1118     $(CPPFORPO) lex.yy.c > $@
1119     $(RM) lex.yy.c

1121 .c.po:
1122     $(CPPFORPO) $< > $<.i
1123     $(BUILD.po)

1125 .y.po:
1126     $(YACC) -d $<
1127     $(CPPFORPO) y.tab.c > $<.i
1128     $(BUILD.po)
1129     $(RM) y.tab.c

1131 .l.po:
1132     $(LEX) $<
1133     $(CPPFORPO) lex.yy.c > $<.i
1134     $(BUILD.po)
1135     $(RM) lex.yy.c

1137 #
1138 # Rules to perform stylistic checks
1139 #
1140 .SUFFIXES: .x .xml .check .xmlchk

1142 .h.check:
1143     $(DOT_H_CHECK)

1145 .x.check:
1146     $(DOT_X_CHECK)

1148 .xml.xmlchk:
1149     $(MANIFEST_CHECK)

1151 #
1152 # Include rules to render automated sccs get rules "safe".
1153 #
1154 include $(SRC)/Makefile.noget

```

new/usr/src/lib/Makefile.lib

1

```
*****
8584 Thu Aug 15 12:00:00 2013
new/usr/src/lib/Makefile.lib
4029 remove tonic build bits
*****
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 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
22 #
23 #
24 # Definitions common to libraries.
25 #
26 # include global definitions; SRC should be defined in the shell.
27 # SRC is needed until RFE 1026993 is implemented.

29 include      $(SRC)/Makefile.master

31 ORDER=       lorder
32 TSORT=       tsort
33 AWK=         awk

35 #
36 # By default, we define the source directory for libraries to be
37 # one level up from the ISA-specific directory, where the code is
38 # actually built. Many libraries define a 'common' directory to
39 # contain the source. These libraries must redefine SRCDIR as:
40 #     SRCDIR = ../common
41 # Other variations are possible (../port, ../src, etc).
42 #
43 SRCDIR =     ..

45 #
46 # We define MAPFILES here for the benefit of most libraries, those that
47 # follow the convention of having source files and other common files
48 # in the $(SRCDIR) directory. Libraries that do not follow this
49 # convention must define MAPFILES, or MAPFILEDIR for themselves.
50 # Libraries that do follow this convention but that need supplemental
51 # ISA-specific mapfiles can augment MAPFILES like this:
52 #     MAPFILES += mapfile-vers
53 #
54 MAPFILEDIR = $(SRCDIR)
55 MAPFILES =   $(MAPFILEDIR)/mapfile-vers

57 #
58 # If HDRDIR is left unset, then it's possible for the $(ROOTHDRDIR)/%
59 # install rule in lib/Makefile.targ to generate false matches if there
60 # are any common directory names between / and /usr/include ('xfn' is
61 # one common example). To prevent this, we set HDRDIR to a directory
```

new/usr/src/lib/Makefile.lib

2

```
62 # name that will almost surely not exist on the build machine.
63 #
64 HDRDIR=      /__nonexistent_directory__

66 #
67 # We don't build archive (*.a) libraries by default anymore.
68 # If a component of the build needs to build an archive library
69 # for its own internal purposes, it can define LIBS for itself
70 # after including Makefile.lib, like this:
71 #     LIBS = $(LIBRARY)
72 # or:
73 #     LIBS = $(LIBRARYCCC)
74 # Archive libraries must not be installed in the proto area.
75 #
76 LIBS=
77 MACHLIBS=    $(LIBS:%=$(MACH)/%)
78 MACHLIBS64=  $(LIBS:%=$(MACH64)/%)
79 DYNLIB=      $(LIBRARY:.a=.so$(VERS))
80 DYNLIBPSR=   $(LIBRARY:.a=_psr.so$(VERS))
81 DYNLIBCCC=   $(LIBRARYCCC:.a=.so$(VERS))
82 LIBLINKS=    $(LIBRARY:.a=.so)
83 LIBLINKSCCC= $(LIBRARYCCC:.a=.so)
84 LIBNAME=     $(LIBRARY:lib%.a=%)
85 LIBLINKPATH=
86 LIBNULL=    null.a
87 ROOTHDRDIR=  $(ROOT)/usr/include
88 ROOTLIBDIR=  $(ROOT)/usr/lib
89 ROOTLIBDIR64= $(ROOT)/usr/lib/$(MACH64)
90 ROOTFS_LIBDIR= $(ROOT)/lib
91 ROOTFS_LIBDIR64= $(ROOT)/lib/$(MACH64)
92 ROOTLINTDIR= $(ROOTLIBDIR)
93 ROOTFS_LINTDIR= $(ROOTFS_LIBDIR)
94 ROOTFS_LINTDIR64= $(ROOTFS_LIBDIR64)
95 ROOTHDRS=    $(HDRS:%=$(ROOTHDRDIR)/%)
96 HDRSRCS=     $(HDRS:%=$(HDRDIR)/%)
97 CHECKHDRS=   $(HDRSRCS:%.h=%_check)
98 ROOTLIBS=    $(LIBS:%=$(ROOTLIBDIR)/%)
99 ROOTLIBS64=  $(LIBS:%=$(ROOTLIBDIR64)/%)
100 ROOTFS_LIBS= $(DYNLIB:%=$(ROOTFS_LIBDIR)/%)
101 ROOTFS_LIBS64= $(DYNLIB:%=$(ROOTFS_LIBDIR64)/%)
102 ROOTLINKS=   $(ROOTLIBDIR)/$(LIBLINKS)
103 ROOTLINKS64= $(ROOTLIBDIR64)/$(LIBLINKS)
104 ROOTFS_LINKS= $(ROOTFS_LIBDIR)/$(LIBLINKS)
105 ROOTFS_LINKS64= $(ROOTFS_LIBDIR64)/$(LIBLINKS)
106 ROOTLINKSCCC= $(ROOTLIBDIR)/$(LIBLINKSCCC)
107 ROOTLINKSCCC64= $(ROOTLIBDIR64)/$(LIBLINKSCCC)
108 ROOTFS_LINKSCCC= $(ROOTFS_LIBDIR)/$(LIBLINKSCCC)
109 ROOTFS_LINKSCCC64= $(ROOTFS_LIBDIR64)/$(LIBLINKSCCC)
110 ROOTLINT=    $(LINTSRC:%=$(ROOTLINTDIR)/%)
111 ROOTFS_LINT= $(LINTSRC:%=$(ROOTFS_LINTDIR)/%)
112 ROOTFS_LINT64= $(LINTSRC:%=$(ROOTFS_LINTDIR64)/%)
113 ROOTMAN3=    $(ROOT)/usr/share/man/man3
114 ROOTMAN3FILES= $(MAN3FILES:%=$(ROOTMAN3)/%)
115 $(ROOTMAN3FILES) := FILEMODE= 444

117 # Demo rules
118 DEMOFILES=
119 DEMOFILESRCDIR= common
120 ROOTDEMODIRBASE= __nonexistent_directory__
121 ROOTDEMODIRS=
122 ROOTDEMOFILES= $(DEMOFILES:%=$(ROOTDEMODIRBASE)/%)
123 $(ROOTDEMODIRS) := DIRMODE = 755

125 LINTLIB=     llib-1$(LIBNAME).ln
126 LINTFLAGS=   -uaxm
127 LINTFLAGS64= -uaxm -m64
```

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

```

128 LINTSRC=      $(LINTLIB:%.ln=%)
129 LINTOUT=      lint.out
130 ARFLAGS=      r
131 SONAME=       $(DYNLIB)
132 # For most libraries, we should be able to resolve all symbols at link time,
133 # either within the library or as dependencies, all text should be pure, and
134 # combining relocations into one relocation table reduces startup costs.
135 # All options are tunable to allow overload/omission from lower makefiles.

138 HSONAME=      -h$(SONAME)
139 DYNFLAGS=     $(HSONAME) $(ZTEXT) $(ZDEFS) $(BDIRECT) \
140              $(MAPFILES:%=-M%) $(MAPFILE.PGA:%=-M%) $(MAPFILE.NED:%=-M%)

142 LDLIBS=      $(LDLIBS.lib)

144 OBJS=        $(OBJECTS:%=objs/%)
145 PICS=        $(OBJECTS:%=pics/%)

147 # Declare that all library .o's can all be made in parallel.
148 # The DUMMY target is for those instances where OBJS and PICS
149 # are empty (to avoid an unconditional .PARALLEL declaration).
150 .PARALLEL:    $(OBJS) $(PICS) DUMMY

152 # default value for "portable" source
153 SRCS=        $(OBJECTS:%.o=$(SRCDIR)/%.c)

155 # default build of an archive and a shared object,
156 # overridden locally when extra processing is needed
157 BUILD.AR=    $(AR) $(ARFLAGS) $@ $(AROBJ)
158 BUILD.SO=    $(CC) -o $@ $(GSHARED) $(DYNFLAGS) $(PICS) $(EXTPICS) $(LDLIBS)
159 BUILD.CCC.SO= $(CCC) -o $@ $(GSHARED) $(DYNFLAGS) $(PICS) $(EXTPICS) $(LDLIBS)

161 # default dynamic library symlink
162 # IMPORTANT:: If you change INS.liblink OR INS.liblink64 here, then you
163 # MUST also change the corresponding override definitions in
164 # $CLOSED/Makefile.tonic.
165 #
166 # If you do not do this, then the closedbins build for the OpenSolaris
167 # community will break. PS, the gatekeepers will be upset too.
168 #
169 #
170 # If appropriate, augment POST_PROCESS_O and POST_PROCESS_SO to do CTF
171 # processing. We'd like to just conditionally append to POST_PROCESS_O and
172 # POST_PROCESS_SO, but ParallelMake has a bug which causes the same value to
173 # sometimes get appended more than once, which will cause ctftconvert to fail.
174 # So, instead we introduce CTFCONVERT_POST and CTFMERGE_POST, which are always
175 # appended to POST_PROCESS_O and POST_PROCESS_SO but are no-ops unless CTF
176 # processing should be done.
177 #
178 CTFCONVERT_POST = :
179 CTFMERGE_POST = :
180 POST_PROCESS_O += ; $(CTFCONVERT_POST)
181 POST_PROCESS_SO += ; $(CTFMERGE_POST)

183 CTFMERGE_LIB = $(CTFMERGE) $(CTFMRGFLAGS) -t -f -L VERSION -o $@ $(PICS)

185 # conditional assignments

```

3

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

```

187 $(OBJ) :=      sparc_CFLAGS += -xregs=no%appl

189 $(PICS) :=     sparc_CFLAGS += -xregs=no%appl $(sparc_C_PICFLAGS)
190 $(PICS) :=     sparcv9_CFLAGS += -xregs=no%appl $(sparcv9_C_PICFLAGS)
191 $(PICS) :=     i386_CFLAGS += $(i386_C_PICFLAGS)
192 $(PICS) :=     amd64_CFLAGS += $(amd64_C_PICFLAGS)
193 $(PICS) :=     CCFLAGS += $(CC_PICFLAGS)
194 $(PICS) :=     CPPFLAGS += -DPIC -D_REENTRANT
195 $(PICS) :=     sparcv9_CCFLAGS += -xregs=no%appl $(sparcv9_CC_PICFLAGS)
196 $(PICS) :=     amd64_CCFLAGS += $(amd64_CC_PICFLAGS)
197 $(PICS) :=     CFLAGS += $(CTF_FLAGS)
198 $(PICS) :=     CFLAGS64 += $(CTF_FLAGS)
199 $(PICS) :=     CTFCONVERT_POST = $(CTFCONVERT_O)
200 $(DYNLIB) :=   CTFMERGE_POST = $(CTFMERGE_LIB)

202 $(LINTLIB):=   LOG = -DLOGGING
203 $(LIBRARY):=  AROBJ = $(OBJ)
204 $(LIBRARY):=  DIR = objs
205 $(DYNLIB):=   DIR = pics
206 $(DYNLIB.CCC):= DIR = pics

208 SONAME.CCC=   $(DYNLIB.CCC)
209 HSONAME.CCC=  -h $(SONAME.CCC)
210 #
211 # Keep in sync with the standard DYNFLAGS
212 #
213 $(DYNLIB.CCC):= DYNFLAGS = $(HSONAME.CCC) $(ZTEXT) $(ZDEFS) \
214                 $(MAPFILES:%=-M%) $(MAPFILE.PGA:%=-M%) $(MAPFILE.NED:%=-M%) \
215                 $(BDIRECT) $(NORUNPATH)

218 # build rule for "portable" source
219 objs/%.o pics/%.o: %.c
220     $(COMPILE.c) -o $@ $<
221     $(POST_PROCESS_O)

223 objs/%.o pics/%.o: %.cc
224     $(COMPILE.cc) -o $@ $<
225     $(POST_PROCESS_O)

227 .PRECIOUS: $(LIBS)

229 # Define the majority text domain in this directory.
230 TEXT_DOMAIN= SUNW_OST_OSLIB

232 $(ROOTMAN3)/%: % sunman
233     $(INS.rename)

235 #
236 # For library source code, we expect that some symbols may not be used or
237 # may *appear* to be able to rescoped to static; shut lint up. Never add
238 # a flag here unless you're *sure* that all libraries need to be linted
239 # with it.
240 #
241 LINTCHECKFLAGS = -m -erroff=E_NAME_DEF_NOT_USED2
242 LINTCHECKFLAGS += -erroff=E_NAME_DECL_NOT_USED_DEF2

244 #
245 # Target Architecture
246 #
247 TARGETMACH=   $(MACH)

249 #
250 # Allow people to define their own clobber rules. Normal makefiles
251 # shouldn't override this - they should override $(CLOBBERFILES) instead.
252 #

```

4

**new/usr/src/lib/Makefile.lib**

5

253 CLOBBERTARGETFILES= \$(LIBS) \$(DYNLIB) \$(CLOBBERFILES)

new/usr/src/tools/findunref/exception\_list.closed

1

```
*****
2213 Thu Aug 15 12:00:00 2013
new/usr/src/tools/findunref/exception_list.closed
4029 remove tonic build bits
*****
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 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25 #
26 #
27 # closed-tree exception list
28 #
29 # See README.exception_lists for details
30 #
31 #
32 #
33 # Ignore files that get used during a EXPORT_SRC or CRYPT_SRC build only.
34 #
35 # ./usr/closed/uts/sun4v/io/n2cp/Makefile
36 # ./usr/closed/uts/sun4v/io/ncp/Makefile
37 #
38 #
39 # Ignore files that are only used for warlock
40 #
41 # ./usr/closed/uts/sparc/marvell88sx/Makefile
42 #
43 #
44 # An unfortunate artifact of the bridged, split gate is that closed-source
45 # deleted files go where findunref can accidentally find them...
46 #
47 # And an unfortunate artifact of using these tools with both full Teamware
48 # and split, non-Teamware workspaces is that sometimes closed/deleted_files
49 # won't exist, so we need the ISUSED directive here.
50 #
51 # ISUSED - let checkpaths know that the next entry is good.
52 # ./usr/closed/deleted_files
53 #
54 #
55 # Ignore some files originally shared by Broadcom as part of bnxe driver
56 #
57 # ./usr/closed/uts/common/io/bnxe/577xx
58 # ./usr/closed/uts/common/io/bnxe/src/bnxe_debug.h
59 #
60 #
61 # Ignore some files originally shared by Broadcom as part of bnx driver
```

new/usr/src/tools/findunref/exception\_list.closed

2

```
62 #
63 # ./usr/closed/uts/common/io/bnx/hsi.h
64 # ./usr/closed/uts/common/io/bnx/invm_cfg.h
65 # ./usr/closed/uts/common/io/bnx/iparms.h
66 # ./usr/closed/uts/common/io/bnx/itypes.h
67 # ./usr/closed/uts/common/io/bnx/status_code.h
68 # ./usr/closed/uts/common/io/bnx/tcp_ctx.h
69 # ./usr/closed/uts/common/io/bnx/toe_ctx.h
70 # ./usr/closed/uts/common/io/bnx/bnxdbg.c
71 #
72 #
73 # Ignore Makefile.tonic - not used unless we're running an
74 # OpenSolaris closedbins delivery build
75 #
76 # ./usr/closed/Makefile.tonic
```

new/usr/src/tools/install.bin/install.bin.c

1

```
*****
5024 Thu Aug 15 12:00:00 2013
new/usr/src/tools/install.bin/install.bin.c
4029 remove tonic build bits
*****
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) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
23 */

26 #include <stdio.h>
27 #include <stdlib.h>
28 #include <strings.h>
29 #include <sys/param.h>
30 #include <fcntl.h>
31 #include <sys/errno.h>
32 #include <sys/types.h>
33 #include <sys/uio.h>
34 #include <unistd.h>
35 #include <sys/stat.h>
36 #include <errno.h>
37 #include <libgen.h>
38 #include "stdusers.h"

41 #define FILE_BUFF      40960

43 static int suppress = 0;

45 static void usage(void);
46 static void file_copy(char *src_file, char *dest_file);
47 static void chown_file(const char *file, const char *group, const char *owner);
48 static void formclosed(char *root, char *closedroot);
49 static char *find_basename(const char *str);
50 static int creatdir(char *fn);

52 void
53 usage(void)
54 {
55     (void) fprintf(stderr,
56     "usage: install [-sd][-m mode][-g group][-u owner] "
57     "usage: install [-sdO][-m mode][-g group][-u owner] "
58     "-f dir file ...\n");
59 }
_____unchanged_portion_omitted_____
```

new/usr/src/tools/install.bin/install.bin.c

2

```
128 void
129 formclosed(char *root, char *closedroot)
130 {
131     int wholelen, residlen;
132     char *temp;

134     wholelen = strlen(root);
135     temp = strstr(strstr(root, "proto/root_"), "/");
136     temp++;
137     temp = strstr(temp, "/");
138     residlen = strlen(temp);
139     (void) strcpy(closedroot, root, wholelen - residlen + 1);
140     (void) strcat(closedroot, "-closed", MAXPATHLEN);
141     (void) strcat(closedroot, temp, MAXPATHLEN);
142 }

127 char *
128 find_basename(const char *str)
129 {
130     int i;
131     int len;

133     len = strlen(str);

135     for (i = len-1; i >= 0; i--)
136         if (str[i] == '/')
137             return ((char *) (str + i + 1));
138     return ((char *) str);
139 }
_____unchanged_portion_omitted_____

156 int
157 main(int argc, char **argv)
158 {
159     int c;
160     int errflg = 0;
161     int dirflg = 0;
162     char *group = NULL;
163     char *owner = NULL;
164     char *dirb = NULL;
165     char *ins_file = NULL;
166     int mode = -1;
167     char dest_file[MAXPATHLEN];
168     char shadow_dest[MAXPATHLEN];
169     char shadow_dirb[MAXPATHLEN];
170     int tonic = 0;
171     int rv = 0;

172     while ((c = getopt(argc, argv, "f:sm:du:g:")) != EOF) {
173         while ((c = getopt(argc, argv, "f:sm:du:g:O")) != EOF) {
174             switch (c) {
175                 case 'f':
176                     dirb = optarg;
177                     break;
178                 case 'g':
179                     group = optarg;
180                     break;
181                 case 'u':
182                     owner = optarg;
183                     break;
184                 case 'd':
185                     dirflg = 1;
186             }
187         }
188     }
189 }
```

```

183         break;
184     case 'm':
185         mode = strtol(optarg, NULL, 8);
186         break;
187     case 's':
188         suppress = 1;
189         break;
211     case 'O':
212         tonic = 1;
213         break;
190     case '?':
191         errflg++;
192         break;
193     }
194 }

196 if (errflg) {
197     usage();
198     return (1);
199 }

201 if (argc == optind) {
202     usage();
203     return (1);
204 }

206 if (!dirflg && (dirb == NULL)) {
207     (void) fprintf(stderr,
208         "install: no destination directory specified.\n");
209     return (1);
210 }

212 for (c = optind; c < argc; c++) {
213     ins_file = argv[c];

215     if (dirflg) {
240         if (tonic) {
241             formclosed(ins_file, shadow_dest);
242             rv = creatdir(shadow_dest);
243             if (rv) {
244                 (void) fprintf(stderr,
245                     "install: tonic creatdir "
246                     "%s (%d): (%s)\n",
247                     shadow_dest, errno,
248                     strerror(errno));
249                 return (rv);
250             }
251         }
216         rv = creatdir(ins_file);
217         if (rv) {
218             (void) fprintf(stderr,
219                 "install: creatdir %s (%d): %s\n",
220                 ins_file, errno, strerror(errno));
221             return (rv);
222         }
223         (void) strlcpy(dest_file, ins_file, MAXPATHLEN);

225     } else {
226         (void) strcat(strcat(strcpy(dest_file, dirb), "/"),
227             find_basename(ins_file));
228         file_copy(ins_file, dest_file);

266         if (tonic) {
267             formclosed(dirb, shadow_dirb);
268             /*
269             * The standard directories in the proto

```

```

270         * area are created as part of "make setup",
271         * but that doesn't create them in the
272         * closed proto area. So if the target
273         * directory doesn't exist, we need to
274         * create it now.
275         */
276         rv = creatdir(shadow_dirb);
277         if (rv) {
278             (void) fprintf(stderr,
279                 "install: tonic creatdir(f) "
280                 "%s (%d): %s\n",
281                 shadow_dirb, errno,
282                 strerror(errno));
283             return (rv);
284         }
285         (void) strcat(strcat(strcpy(shadow_dest,
286             shadow_dirb), "/"),
287             find_basename(ins_file));
288         file_copy(ins_file, shadow_dest);
289     }
229 }

231 if (group || owner)
292 if (group || owner) {
232     chown_file(dest_file, group, owner);

294     if (tonic)
295         chown_file(shadow_dest, group, owner);
296 }
234 if (mode != -1) {
235     (void) umask(0);
236     if (chmod(dest_file, mode) == -1) {
237         (void) fprintf(stderr,
238             "install: chmod of %s to mode %o failed "
239             "%d): %s\n",
240             dest_file, mode, errno, strerror(errno));
241         return (1);
242     }
306     if (tonic) {
307         if (chmod(shadow_dest, mode) == -1) {
308             (void) fprintf(stderr,
309                 "install: tonic chmod of %s "
310                 "to mode %o failed (%d): %s\n",
311                 shadow_dest, mode,
312                 errno, strerror(errno));
313             return (1);
314         }
315     }
243 }
244 }
245     return (0);
246 }

```

unchanged\_portion\_omitted

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

1

\*\*\*\*\*

12468 Thu Aug 15 12:00:00 2013

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

4029 remove tonic build bits

\*\*\*\*\*

unchanged portion omitted

```
154 [+SEE ALSO?\bnightly\b(1)]
155 '
```

```
157 # main
158 builtin basename
```

```
160 # boolean flags (true/false)
161 typeset flags=(
162     typeset c=false
163     typeset f=false
164     typeset d=false
165     typeset O=false
166     typeset o=false
167     typeset t=true
168     typeset s=(
169         typeset e=false
170         typeset h=false
171         typeset d=false
172         typeset o=false
173     )
174 )
```

```
176 typeset progname="${basename -- "${0}"}"
```

```
178 OPTIND=1
179 SUFFIX="-nd"
```

```
181 while getopts -a "${progname}" "${USAGE}" OPT ; do
182     case ${OPT} in
183         c) flags.c=true ;;
184         +c) flags.c=false ;;
185         f) flags.f=true ;;
186         +f) flags.f=false ;;
187         d) flags.d=true SUFFIX="" ;;
188         +d) flags.d=false SUFFIX="-nd" ;;
189         t) flags.t=true ;;
190         +t) flags.t=false ;;
191         S) set_s_flag "$OPTARG" ;;
192         \?) usage ;;
193     esac
194 done
195 shift $((OPTIND-1))
```

```
197 # test that the path to the environment-setting file was given
198 if (( $# < 1 )) ; then
199     usage
200 fi
```

```
202 # force locale to C
203 export \
204     LC_COLLATE=C \
205     LC_CTYPE=C \
206     LC_MESSAGES=C \
207     LC_MONETARY=C \
208     LC_NUMERIC=C \
209     LC_TIME=C
```

```
211 # clear environment variables we know to be bad for the build
212 unset \
213     LD_OPTIONS \
```

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

2

```
214     LD_LIBRARY_PATH \
215     LD_AUDIT \
216     LD_BIND_NOW \
217     LD_BREATH \
218     LD_CONFIG \
219     LD_DEBUG \
220     LD_FLAGS \
221     LD_LIBRARY_PATH_64 \
222     LD_NOVERSION \
223     LD_ORIGIN \
224     LD_LOADFLTR \
225     LD_NOAUXFLTR \
226     LD_NOCONFIG \
227     LD_NODIRCONFIG \
228     LD_NOOBJALTER \
229     LD_PRELOAD \
230     LD_PROFILE \
231     CONFIG \
232     GROUP \
233     OWNER \
234     REMOTE \
235     ENV \
236     ARCH \
237     CLASSPATH
```

```
239 #
240 # Setup environment variables
241 #
242 if [[ -f /etc/nightly.conf ]]; then
243     source /etc/nightly.conf
244 fi
```

```
246 if [[ -f "$1" ]]; then
247     if [[ "$1" == */* ]]; then
248         source "$1"
249     else
250         source "./$1"
251     fi
252 else
253     if [[ -f "/opt/onbld/env/$1" ]]; then
254         source "/opt/onbld/env/$1"
255     else
256         printf \
257             'Cannot find env file as either %s or /opt/onbld/env/%s\n' \
258             "$1" "$1"
259         exit 1
260     fi
261 fi
262 shift
```

```
264 # contents of stdenv.sh inserted after next line:
265 # STDENV_START
266 # STDENV_END
```

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

```
273 # must match the getopts in nightly.sh
274 OPTIND=1
275 NIGHTLY_OPTIONS="-${NIGHTLY_OPTIONS#-}"
276 while getopts '+0AaBCDdFfGIiIlMmNnOopRrS:tUuWwXxz' FLAG "$NIGHTLY_OPTIONS"
277 do
278     case "$FLAG" in
279         O) flags.O=true ;;
```



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

3

```

280         +O)  flags.o=false ;;
281         o)    flags.o=true  ;;
282         +o)  flags.o=false ;;
283         t)    flags.t=true  ;;
284         +t)  flags.t=false ;;
285         S)    set_s_flag "SOPTARG" ;;
286         *)    ;;
287     esac
288 done

290 POUND_SIGN="#"
291 # have we set RELEASE_DATE in our env file?
292 if [ -z "$RELEASE_DATE" ]; then
293     RELEASE_DATE=$(LC_ALL=C date +"%B %Y")
294 fi
295 BUILD_DATE=$(LC_ALL=C date +%Y-%b-%d)
296 BASEWSDIR=$(basename -- "${CODEMGR_WS}")
297 DEV_CM="\@(#)SunOS Internal Development: $LOGNAME $BUILD_DATE [${BASEWSDIR}]"
298 export DEV_CM RELEASE_DATE POUND_SIGN

300 export INTERNAL_RELEASE_BUILD=

302 print 'Build type is \c'
303 if ${flags.d} ; then
304     print 'DEBUG'
305     unset RELEASE_BUILD
306     unset EXTRA_OPTIONS
307     unset EXTRA_CFLAGS
308 else
309     # default is a non-DEBUG build
310     print 'non-DEBUG'
311     export RELEASE_BUILD=
312     unset EXTRA_OPTIONS
313     unset EXTRA_CFLAGS
314 fi

316 [[ "${flags.O}" == "true" ]] && export MULTI_PROTO="yes"

318 # update build-type variables
319 PKGARCHIVE="${PKGARCHIVE}${SUFFIX}"

321 # Append source version
322 if "${flags.s.e}" ; then
323     VERSION+=":EXPORT"
324     SRC="${EXPORT_SRC}/usr/src"
325 fi
326
327 if "${flags.s.d}" ; then
328     VERSION+=":DOMESTIC"
329     SRC="${EXPORT_SRC}/usr/src"
330 fi

332 if "${flags.s.h}" ; then
333     VERSION+=":HYBRID"
334     SRC="${EXPORT_SRC}/usr/src"
335 fi
336
337 if "${flags.s.o}" ; then
338     VERSION+=":OPEN_ONLY"
339     SRC="${OPEN_SRCDIR}/usr/src"
340 fi

342 # Set PATH for a build
343 PATH="/opt/onbld/bin:/opt/onbld/bin/${MACH}:/opt/SUNWspro/bin:/usr/ccs/bin:/usr/"
344 if [[ "${SUNWSPRO}" != "" ]]; then
345     export PATH="${SUNWSPRO}/bin:$PATH"

```

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

4

```

346 fi

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

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

354     export STABS="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/stabs"
355     export CTFSTABS="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ctfstabs"
356     export GENOFFSETS="${TOOLS_PROTO}/opt/onbld/bin/genoffsets"

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

361     export CTFCVTPTBL="${TOOLS_PROTO}/opt/onbld/bin/ctfcvtptbl"
362     export CTFFINDMOD="${TOOLS_PROTO}/opt/onbld/bin/ctffindmod"

364     PATH="${TOOLS_PROTO}/opt/onbld/bin/${MACH}:${PATH}"
365     PATH="${TOOLS_PROTO}/opt/onbld/bin:${PATH}"
366     export PATH
367 fi

369 export DMAKE_MODE=${DMAKE_MODE:-parallel}

371 if "${flags.o}" ; then
372     export CH=
373 else
374     unset CH
375 fi
376 DEF_STRIPFLAG="-s"

378 TMPDIR="/tmp"

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

384 export \
385     PATH TMPDIR \
386     POUND_SIGN \
387     DEF_STRIPFLAG \
388     RELEASE_DATE
389 unset \
390     CFLAGS \
391     LD_LIBRARY_PATH

393 # a la ws
394 ENVLDLIBS1=
395 ENVLDLIBS2=
396 ENVLDLIBS3=
397 ENVCPPFLAGS1=
398 ENVCPPFLAGS2=
399 ENVCPPFLAGS3=
400 ENVCPPFLAGS4=
401 PARENT_ROOT=
402 PARENT_TOOLS_ROOT=

404 if [[ "$MULTI_PROTO" != "yes" && "$MULTI_PROTO" != "no" ]]; then
405     printf \
406         'WARNING: invalid value for MULTI_PROTO (%s); setting to "no".\n' \
407         "$MULTI_PROTO"
408     export MULTI_PROTO="no"
409 fi

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

```

```
413 export TONICBUILD="#"
413 if "${flags.O}" ; then
414     print "OpenSolaris closed binary generation requires "
415     print "closed tree"
416     exit 1
417 fi

419 ENVLDLIBS1="-L$ROOT/lib -L$ROOT/usr/lib"
420 ENVCPPFLAGS1="-I$ROOT/usr/include"
421 MAKEFLAGS=e

423 export \
424     ENVLDLIBS1 \
425     ENVLDLIBS2 \
426     ENVLDLIBS3 \
427     ENVCPPFLAGS1 \
428     ENVCPPFLAGS2 \
429     ENVCPPFLAGS3 \
430     ENVCPPFLAGS4 \
431     MAKEFLAGS \
432     PARENT_ROOT \
433     PARENT_TOOLS_ROOT

435 printf 'RELEASE      is %s\n'   "$RELEASE"
436 printf 'VERSION      is %s\n'   "$VERSION"
437 printf 'RELEASE_DATE is %s\n\n' "$RELEASE_DATE"

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

444 elif "${flags.t}" ; then
445     printf \
446         'The tools can be (re)built with the install target in %s.\n\n' \
447         "${TOOLS}"
448 fi

450 #
451 # place ourselves in a new task, respecting BUILD_PROJECT if set.
452 #
453 /usr/bin/newtask -c $$ ${BUILD_PROJECT:+-p$BUILD_PROJECT}

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

459     if "${flags.f}" ; then
460         print 'WARNING: -f is ignored when $SHELL is not csh'
461     fi

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

466 elif "${flags.f}" ; then
467     print 'Using csh -f as shell.'
468     exec csh -f ${@:+-c "$@"}

470 else
471     print 'Using csh as shell.'
472     exec csh ${@:+-c "$@"}
473 fi

475 # not reached
```

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

1

```
*****
80166 Thu Aug 15 12:00:00 2013
new/usr/src/tools/scripts/nightly.sh
4029 remove tonic build bits
*****
_____unchanged_portion_omitted_____

1041 OPTIND=1
1042 while getopts +inS:tV: FLAG
1043 do
1044     case $FLAG in
1045         i ) i_FLAG=y; i_CMD_LINE_FLAG=y
1046             ;;
1047         n ) n_FLAG=y
1048             ;;
1049         S )
1050             set_s_flag $OPTARG
1051             ;;
1052         +t ) t_FLAG=n
1053             ;;
1054         V ) V_FLAG=y
1055             V_ARG="$OPTARG"
1056             ;;
1057         \? ) echo "$USAGE"
1058             exit 1
1059             ;;
1060     esac
1061 done

1063 # correct argument count after options
1064 shift `expr $OPTIND - 1`

1066 # test that the path to the environment-setting file was given
1067 if [ $# -ne 1 ]; then
1068     echo "$USAGE"
1069     exit 1
1070 fi

1072 # check if user is running nightly as root
1073 # ISUSER is set non-zero if an ordinary user runs nightly, or is zero
1074 # when root invokes nightly.
1075 /usr/bin/id | grep '^uid=0(' >/dev/null 2>&1
1076 ISUSER=${?}; export ISUSER

1078 #
1079 # force locale to C
1080 LC_COLLATE=C; export LC_COLLATE
1081 LC_CTYPE=C; export LC_CTYPE
1082 LC_MESSAGES=C; export LC_MESSAGES
1083 LC_MONETARY=C; export LC_MONETARY
1084 LC_NUMERIC=C; export LC_NUMERIC
1085 LC_TIME=C; export LC_TIME

1087 # clear environment variables we know to be bad for the build
1088 unset LD_OPTIONS
1089 unset LD_AUDIT LD_AUDIT_32 LD_AUDIT_64
1090 unset LD_BIND_NOW LD_BIND_NOW_32 LD_BIND_NOW_64
1091 unset LD_BREADTH LD_BREADTH_32 LD_BREADTH_64
1092 unset LD_CONFIG LD_CONFIG_32 LD_CONFIG_64
1093 unset LD_DEBUG LD_DEBUG_32 LD_DEBUG_64
1094 unset LD_DEMANGLE LD_DEMANGLE_32 LD_DEMANGLE_64
1095 unset LD_FLAGS LD_FLAGS_32 LD_FLAGS_64
1096 unset LD_LIBRARY_PATH LD_LIBRARY_PATH_32 LD_LIBRARY_PATH_64
1097 unset LD_LOADFLTR LD_LOADFLTR_32 LD_LOADFLTR_64
1098 unset LD_NOAUDIT LD_NOAUDIT_32 LD_NOAUDIT_64
1099 unset LD_NOAUXFLTR LD_NOAUXFLTR_32 LD_NOAUXFLTR_64
```

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

2

```
1100 unset LD_NOCONFIG LD_NOCONFIG_32 LD_NOCONFIG_64
1101 unset LD_NODIRCONFIG LD_NODIRCONFIG_32 LD_NODIRCONFIG_64
1102 unset LD_NODIRECT LD_NODIRECT_32 LD_NODIRECT_64
1103 unset LD_NOLAZYLOAD LD_NOLAZYLOAD_32 LD_NOLAZYLOAD_64
1104 unset LD_NOOBJALTER LD_NOOBJALTER_32 LD_NOOBJALTER_64
1105 unset LD_NOVERSION LD_NOVERSION_32 LD_NOVERSION_64
1106 unset LD_ORIGIN LD_ORIGIN_32 LD_ORIGIN_64
1107 unset LD_PRELOAD LD_PRELOAD_32 LD_PRELOAD_64
1108 unset LD_PROFILE LD_PROFILE_32 LD_PROFILE_64

1110 unset CONFIG
1111 unset GROUP
1112 unset OWNER
1113 unset REMOTE
1114 unset ENV
1115 unset ARCH
1116 unset CLASSPATH
1117 unset NAME

1119 #
1120 # To get ONBLD_TOOLS from the environment, it must come from the env file.
1121 # If it comes interactively, it is generally TOOLS_PROTO, which will be
1122 # clobbered before the compiler version checks, which will therefore fail.
1123 #
1124 unset ONBLD_TOOLS

1126 #
1127 # Setup environmental variables
1128 #
1129 if [ -f /etc/nightly.conf ]; then
1130     . /etc/nightly.conf
1131 fi

1133 if [ -f $1 ]; then
1134     if [[ $1 = */* ]]; then
1135         . $1
1136     else
1137         . ./$1
1138     fi
1139 else
1140     if [ -f $OPTHOME/onbld/env/$1 ]; then
1141         . $OPTHOME/onbld/env/$1
1142     else
1143         echo "Cannot find env file as either $1 or $OPTHOME/onbld/env/$1
1144             exit 1
1145     fi
1146 fi

1148 # contents of stdenv.sh inserted after next line:
1149 # STDENV_START
1150 # STDENV_END

1152 # Check if we have sufficient data to continue...
1153 [[ -v CODEMGR_WS ]] || fatal_error "Error: Variable CODEMGR_WS not set."
1154 if [[ "${NIGHTLY_OPTIONS}" == ~(F)n ]]; then
1155     # Check if the gate data are valid if we don't do a "bringover" below
1156     [[ -d "${CODEMGR_WS}" ]] || \
1157         fatal_error "Error: ${CODEMGR_WS} is not a directory."
1158     [[ -f "${CODEMGR_WS}/usr/src/Makefile" ]] || \
1159         fatal_error "Error: ${CODEMGR_WS}/usr/src/Makefile not found."
1160 fi

1162 #
1163 # place ourselves in a new task, respecting BUILD_PROJECT if set.
1164 #
1165 if [ -z "$BUILD_PROJECT" ]; then
```

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

3

```

1166         /usr/bin/newtask -c $$
1167 else
1168         /usr/bin/newtask -c $$ -p $BUILD_PROJECT
1169 fi

1171 ps -o taskid= -p $$ | read build_taskid
1172 ps -o project= -p $$ | read build_project

1174 #
1175 # See if NIGHTLY_OPTIONS is set
1176 #
1177 if [ "$NIGHTLY_OPTIONS" = "" ]; then
1178     NIGHTLY_OPTIONS="-aBm"
1179 fi

1181 #
1182 # If BRINGOVER_WS was not specified, let it default to CLONE_WS
1183 #
1184 if [ "$BRINGOVER_WS" = "" ]; then
1185     BRINGOVER_WS=$CLONE_WS
1186 fi

1188 #
1189 # If CLOSED_BRINGOVER_WS was not specified, let it default to CLOSED_CLONE_WS
1190 #
1191 if [ "$CLOSED_BRINGOVER_WS" = "" ]; then
1192     CLOSED_BRINGOVER_WS=$CLOSED_CLONE_WS
1193 fi

1195 #
1196 # If BRINGOVER_FILES was not specified, default to usr
1197 #
1198 if [ "$BRINGOVER_FILES" = "" ]; then
1199     BRINGOVER_FILES="usr"
1200 fi

1202 check_closed_tree

1204 #
1205 # Note: changes to the option letters here should also be applied to the
1206 #       bldenv script. 'd' is listed for backward compatibility.
1207 #
1208 NIGHTLY_OPTIONS=-${NIGHTLY_OPTIONS#-}
1209 OPTIND=1
1210 while getopts +ABCDdFfGIIlMmNnOoPpRrS:TtUuWwXxz FLAG $NIGHTLY_OPTIONS
1211 do
1212     case $FLAG in
1213         A ) A_FLAG=y
1214             ;;
1215         B ) D_FLAG=y
1216             ;; # old version of D
1217         C ) C_FLAG=y
1218             ;;
1219         D ) D_FLAG=y
1220             ;;
1221         F ) F_FLAG=y
1222             ;;
1223         f ) f_FLAG=y
1224             ;;
1225         G ) u_FLAG=y
1226             ;;
1227         I ) m_FLAG=y
1228             p_FLAG=y
1229             u_FLAG=y
1230             ;;
1231         i ) i_FLAG=y

```

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

4

```

1232         ;;
1233         l ) l_FLAG=y
1234             ;;
1235         M ) M_FLAG=y
1236             ;;
1237         m ) m_FLAG=y
1238             ;;
1239         N ) N_FLAG=y
1240             ;;
1241         n ) n_FLAG=y
1242             ;;
1243         O ) O_FLAG=y
1244             ;;
1245         o ) o_FLAG=y
1246             ;;
1247         P ) P_FLAG=y
1248             ;; # obsolete
1249         p ) p_FLAG=y
1250             ;;
1251         R ) m_FLAG=y
1252             p_FLAG=y
1253             ;;
1254         r ) r_FLAG=y
1255             ;;
1256         S )
1257             set_S_flag $OPTARG
1258             ;;
1259         T ) T_FLAG=y
1260             ;; # obsolete
1261         +t ) t_FLAG=n
1262             ;;
1263         U ) if [ -z "${PARENT_ROOT}" ]; then
1264             echo "PARENT_ROOT must be set if the U flag is" \
1265                 "present in NIGHTLY_OPTIONS."
1266             exit 1
1267         fi
1268         NIGHTLY_PARENT_ROOT=$PARENT_ROOT
1269         if [ -n "${PARENT_TOOLS_ROOT}" ]; then
1270             NIGHTLY_PARENT_TOOLS_ROOT=$PARENT_TOOLS_ROOT
1271         fi
1272         U_FLAG=y
1273         ;;
1274         u ) u_FLAG=y
1275             ;;
1276         W ) W_FLAG=y
1277             ;;

1279         w ) w_FLAG=y
1280             ;;
1281         X ) # now that we no longer need realmode builds, just
1282             # copy IHV packages. only meaningful on x86.
1283             if [ "$MACH" = "i386" ]; then
1284                 X_FLAG=y
1285             fi
1286             ;;
1287         x ) XMOD_OPT="-x"
1288             ;;
1289         \? ) echo "$USAGE"
1290             exit 1
1291             ;;
1292     esac
1293 done

1295 if [ $ISUSER -ne 0 ]; then
1296     if [ "$o_FLAG" = "y" ]; then
1297         echo "Old-style build requires root permission."

```

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

5

```

1298         exit 1
1299     fi

1301     # Set default value for STAFFER, if needed.
1302     if [ -z "$STAFFER" -o "$STAFFER" = "nobody" ]; then
1303         STAFFER="/usr/xpg4/bin/id -un"
1304         export STAFFER
1305     fi
1306 fi

1308 if [ -z "$MAILTO" -o "$MAILTO" = "nobody" ]; then
1309     MAILTO=$STAFFER
1310     export MAILTO
1311 fi

1313 PATH="$OPTHOME/onbld/bin:$OPTHOME/onbld/bin/${MACH}:/usr/ccs/bin"
1314 PATH="$PATH:$OPTHOME/SUNWSpro/bin:$TEAMWARE/bin:/usr/bin:/usr/sbin:/usr/ucb"
1315 PATH="$PATH:/usr/openwin/bin:/usr/sfw/bin:/opt/sfw/bin:."
1316 export PATH

1318 # roots of source trees, both relative to $SRC and absolute.
1319 relsrcdirs="."
1320 absrsrcdirs="$SRC"

1322 unset CH
1323 if [ "$o_FLAG" = "y" ]; then
1324     # root invoked old-style build -- make sure it works as it always has
1325     # by exporting 'CH'. The current Makefile.master doesn't use this, but
1326     # the old ones still do.
1327     PROTOCMPTERSE="protocmp.terse"
1328     CH=
1329     export CH
1330 else
1331     PROTOCMPTERSE="protocmp.terse -gu"
1332 fi
1333 POUND_SIGN="#"
1334 # have we set RELEASE_DATE in our env file?
1335 if [ -z "$RELEASE_DATE" ]; then
1336     RELEASE_DATE=$(LC_ALL=C date +"%B %Y")
1337 fi
1338 BUILD_DATE=$(LC_ALL=C date +%Y-%b-%d)
1339 BASEWSDIR=$(basename $CODEMGR_WS)
1340 DEV_CM="\@(#)SunOS Internal Development: $LOGNAME $BUILD_DATE [$BASEWSDIR]\\""

1342 # we export POUND_SIGN, RELEASE_DATE and DEV_CM to speed up the build process
1343 # by avoiding repeated shell invocations to evaluate Makefile.master definitions
1344 # we export o_FLAG and X_FLAG for use by makebfu, and by usr/src/pkg/Makefile
1345 export o_FLAG X_FLAG POUND_SIGN RELEASE_DATE DEV_CM

1347 maketype="distributed"
1348 MAKE=dmake
1349 # get the dmake version string alone
1350 DMAKE_VERSION=$( $MAKE -v )
1351 DMAKE_VERSION=${DMAKE_VERSION#*: }
1352 # focus in on just the dotted version number alone
1353 DMAKE_MAJOR=$( echo $DMAKE_VERSION | \
1354     sed -e 's/.*\<([^\.]*)\.[^\ ]*\)' )
1355 # extract the second (or final) integer
1356 DMAKE_MINOR=${DMAKE_MAJOR#*.}
1357 DMAKE_MINOR=${DMAKE_MINOR%.*}
1358 # extract the first integer
1359 DMAKE_MAJOR=${DMAKE_MAJOR%.*}
1360 CHECK_DMAKE=${CHECK_DMAKE:-y}
1361 # x86 was built on the 12th, sparc on the 13th.
1362 if [ "$CHECK_DMAKE" = "y" -a \
1363     "$DMAKE_VERSION" != "Sun Distributed Make 7.3 2003/03/12" -a \

```

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

6

```

1364     "$DMAKE_VERSION" != "Sun Distributed Make 7.3 2003/03/13" -a \ \
1365     "$DMAKE_MAJOR" -lt 7 -o \
1366     "$DMAKE_MAJOR" -eq 7 -a "$DMAKE_MINOR" -lt 4 \ ) ]; then
1367     if [ -z "$DMAKE_VERSION" ]; then
1368         echo "$MAKE is missing."
1369         exit 1
1370     fi
1371     echo 'whence $MAKE\' version is:"
1372     echo "  ${DMAKE_VERSION}"
1373     cat <<EOF

1375 This version may not be safe for use. Either set TEAMWARE to a better
1376 path or (if you really want to use this version of dmake anyway), add
1377 the following to your environment to disable this check:

1379     CHECK_DMAKE=n
1380 EOF
1381     exit 1
1382 fi
1383 export PATH
1384 export MAKE

1386 if [[ "$O_FLAG" = y ]]; then
1387     export TONICBUILD=""
1388 else
1389     export TONICBUILD="#"
1390 fi

1386 if [ "$SUNWSPRO" != "" ]; then
1387     PATH=${SUNWSPRO}/bin:$PATH
1388     export PATH
1389 fi

1391 hostname=$(uname -n)
1392 if [[ $DMAKE_MAX_JOBS != +([0-9]) || $DMAKE_MAX_JOBS -eq 0 ]]
1393 then
1394     maxjobs=
1395     if [[ -f $HOME/.make.machines ]]
1396     then
1397         # Note: there is a hard tab and space character in the []s
1398         # below.
1399         egrep -i "^[ \t]*$hostname[ \t]\ \"
1400             $HOME/.make.machines | read host jobs
1401         maxjobs=${jobs##*=}
1402     fi

1404     if [[ $maxjobs != +([0-9]) || $maxjobs -eq 0 ]]
1405     then
1406         # default
1407         maxjobs=4
1408     fi

1410     export DMAKE_MAX_JOBS=$maxjobs
1411 fi

1413 DMAKE_MODE=parallel;
1414 export DMAKE_MODE

1416 if [ -z "$ROOT" ]; then
1417     echo "ROOT must be set."
1418     exit 1
1419 fi

1421 #
1422 # if -V flag was given, reset VERSION to V_ARG
1423 #

```

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

7

```
1424 if [ "$V_FLAG" = "y" ]; then
1425     VERSION=$V_ARG
1426 fi

1428 #
1429 # Check for IHV root for copying ihv proto area
1430 #
1431 if [ "$X_FLAG" = "y" ]; then
1432     if [ "$IA32_IHV_ROOT" = "" ]; then
1433         echo "IA32_IHV_ROOT: must be set for copying ihv proto"
1434         args_ok=n
1435     fi
1436     if [ ! -d "$IA32_IHV_ROOT" ]; then
1437         echo "$IA32_IHV_ROOT: not found"
1438         args_ok=n
1439     fi
1440     if [ "$IA32_IHV_WS" = "" ]; then
1441         echo "IA32_IHV_WS: must be set for copying ihv proto"
1442         args_ok=n
1443     fi
1444     if [ ! -d "$IA32_IHV_WS" ]; then
1445         echo "$IA32_IHV_WS: not found"
1446         args_ok=n
1447     fi
1448 fi

1450 # Append source version
1451 if [ "$SE_FLAG" = "y" ]; then
1452     VERSION="${VERSION}:EXPORT"
1453 fi

1455 if [ "$SD_FLAG" = "y" ]; then
1456     VERSION="${VERSION}:DOMESTIC"
1457 fi

1459 if [ "$SH_FLAG" = "y" ]; then
1460     VERSION="${VERSION}:MODIFIED_SOURCE_PRODUCT"
1461 fi

1463 if [ "$SO_FLAG" = "y" ]; then
1464     VERSION="${VERSION}:OPEN_ONLY"
1465 fi

1467 TMPDIR="/tmp/nightly.tmpdir.$$"
1468 export TMPDIR
1469 rm -rf ${TMPDIR}
1470 mkdir -p $TMPDIR || exit 1
1471 chmod 777 $TMPDIR

1473 #
1474 # Keep elfsign's use of pkcs11_softtoken from looking in the user home
1475 # directory, which doesn't always work. Needed until all build machines
1476 # have the fix for 6271754
1477 #
1478 SOFTTOKEN_DIR=$TMPDIR
1479 export SOFTTOKEN_DIR

1481 #
1482 # Tools should only be built non-DEBUG. Keep track of the tools proto
1483 # area path relative to $TOOLS, because the latter changes in an
1484 # export build.
1485 #
1486 # TOOLS_PROTO is included below for builds other than usr/src/tools
1487 # that look for this location. For usr/src/tools, this will be
1488 # overridden on the $MAKE command line in build_tools().
1489 #
```

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

8

```
1490 TOOLS=${SRC}/tools
1491 TOOLS_PROTO_REL=proto/root_${MACH}-nd
1492 TOOLS_PROTO=${TOOLS}/${TOOLS_PROTO_REL}; export TOOLS_PROTO

1494 unset CFLAGS LD_LIBRARY_PATH LDFLAGS

1496 # create directories that are automatically removed if the nightly script
1497 # fails to start correctly
1498 function newdir {
1499     dir=$1
1500     toadd=
1501     while [ ! -d $dir ]; do
1502         toadd="$dir $toadd"
1503         dir='dirname $dir'
1504     done
1505     torm=
1506     newlist=
1507     for dir in $toadd; do
1508         if staffer mkdir $dir; then
1509             newlist="$ISUSER $dir $newlist"
1510             torm="$dir $torm"
1511         else
1512             [ -z "$storm" ] || staffer rmdir $storm
1513             return 1
1514         fi
1515     done
1516     newdirlist="$newlist $newdirlist"
1517     return 0
1518 }
unchanged_portion_omitted
```