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*****
34635 Sat Aug 3 15:26:09 2013
new/usr/src/Makefile.master
3971 remove EXPORT_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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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 # EXPORT_RELEASE_BUILD controls whether binaries are built in a form that
41 # can be released for export under a binary license. It is orthogonal to
42 # the other *RELEASE_BUILD settings. ("#" means do an export release
43 # build, "" means do a normal build.)
44 #
45 # CLOSED_BUILD controls whether we try to build files under
46 # usr/closed. (" means to build closed code, "#" means don't try to
47 # build it.) Skipping the closed code implies doing an export release
48 # build.
49 #
50 # STRIP_COMMENTS toggles comment section stripping. Generally the same setting
51 # as INTERNAL_RELEASE_BUILD.
52 #
53 # __GNUC toggles the building of ON components using gcc and related tools.
54 # Normally set to '#', set it to '' to do gcc build.
55 #
56 # The declaration POUND_SIGN is always '#'. This is needed to get around the
57 # make feature that '#' is always a comment delimiter, even when escaped or
58 # quoted. We use this macro expansion method to get POUND_SIGN rather than
59 # always breaking out a shell because the general case can cause a noticeable
60 # slowdown in build times when so many Makefiles include Makefile.master.
61 #

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57 # While the majority of users are expected to override the setting below
58 # with an env file (via nightly or bldenv), if you aren't building that way
59 # (ie, you're using "ws" or some other bootstrapping method) then you need
60 # this definition in order to avoid the subshell invocation mentioned above.
61 #
62 #
63 PRE_POUND=          pre\#
64 POUND_SIGN=        $(PRE_POUND:pre\%=%)
65 #
66 NOT_RELEASE_BUILD=
67 INTERNAL_RELEASE_BUILD=    $(POUND_SIGN)
68 RELEASE_BUILD=        $(POUND_SIGN)
69 $(RELEASE_BUILD)NOT_RELEASE_BUILD=    $(POUND_SIGN)
70 $(RELEASE_BUILD)INTERNAL_RELEASE_BUILD=    $(POUND_SIGN)
71 PATCH_BUILD=        $(POUND_SIGN)
72 #
73 # If CLOSED_IS_PRESENT is not set, assume the closed tree is present.
74 CLOSED_BUILD_1=    $(CLOSED_IS_PRESENT:yes=)
75 CLOSED_BUILD=    $(CLOSED_BUILD_1:no=$(POUND_SIGN))
76 #
77 # SPARC_BLD is '#' for an Intel build.
78 # INTEL_BLD is '#' for a Sparc build.
79 SPARC_BLD_1=    $(MACH:i386=$(POUND_SIGN))
80 SPARC_BLD=    $(SPARC_BLD_1:sparc=)
81 INTEL_BLD_1=    $(MACH:sparc=$(POUND_SIGN))
82 INTEL_BLD=    $(INTEL_BLD_1:i386=)
83 #
84 STRIP_COMMENTS=    $(INTERNAL_RELEASE_BUILD)
85 #
86 # Are we building tonic closedbins? Unless you have used the
87 # -O flag to nightly or bldenv, leave the definition of TONICBUILD
88 # as $(POUND_SIGN).
89 #
90 # IF YOU CHANGE CLOSEDROOT, you MUST change install.bin
91 # to match the new definition.
92 TONICBUILD=    $(POUND_SIGN)
93 $(TONICBUILD)CLOSEDROOT=    $(ROOT)-closed
94 #
95 #
96 # The variables below control the compilers used during the build.
97 # There are a number of permutations.
98 #
99 # __GNUC and __SUNC control (and indicate) the primary compiler. Whichever
100 # one is not POUND_SIGN is the primary, with the other as the shadow. They
101 # may also be used to control entirely compiler-specific Makefile assignments.
102 # __SUNC and Sun Studio are the default.
103 #
104 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
105 # There is no Sun C analogue.
106 #
107 # The following version-specific options are operative regardless of which
108 # compiler is primary, and control the versions of the given compilers to be
109 # used. They also allow compiler-version specific Makefile fragments.
110 #
111 #
112 __GNUC=    $(POUND_SIGN)
113 $(__GNUC)__SUNC=    $(POUND_SIGN)
114 __GNUC64=    $(__GNUC)
115 #
116 # CLOSED is the root of the tree that contains source which isn't released
117 # as open source
118 CLOSED=    $(SRC)/../closed

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new/usr/src/Makefile.master

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

123 BUILD_TOOLS=          /ws/onnv-tools
124 ONBLD_TOOLS=          $(BUILD_TOOLS)/onbld

126 JAVA_ROOT=           /usr/java

128 SFW_ROOT=            /usr/sfw
129 SFWINCDIR=           $(SFW_ROOT)/include
130 SFWLIBDIR=           $(SFW_ROOT)/lib
131 SFWLIBDIR64=         $(SFW_ROOT)/lib/$(MACH64)

133 GCC_ROOT=            /opt/gcc/4.4.4
134 GCCLIBDIR=           $(GCC_ROOT)/lib
135 GCCLIBDIR64=         $(GCC_ROOT)/lib/$(MACH64)

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

139 RPCGEN=              /usr/bin/rpcgen
140 STABS=                $(ONBLD_TOOLS)/bin/$(MACH)/stabs
141 ELFXTRACT=           $(ONBLD_TOOLS)/bin/$(MACH)/elfextract
142 MBH_PATCH=           $(ONBLD_TOOLS)/bin/$(MACH)/mbh_patch
143 ECHO=                 echo
144 INS=                  install
145 TRUE=                 true
146 SYMLINK=             /usr/bin/ln -s
147 LN=                   /usr/bin/ln
148 CHMOD=                /usr/bin/chmod
149 MV=                   /usr/bin/mv -f
150 RM=                   /usr/bin/rm -f
151 CUT=                  /usr/bin/cut
152 NM=                   /usr/ccs/bin/nm
153 DIFF=                 /usr/bin/diff
154 GREP=                 /usr/bin/grep
155 EGREP=                /usr/bin/egrep
156 ELFWRAP=              /usr/bin/elfwrap
157 KSH93=                /usr/bin/ksh93
158 SED=                  /usr/bin/sed
159 NAWK=                 /usr/bin/nawk
160 CP=                    /usr/bin/cp -f
161 MCS=                  /usr/ccs/bin/mcs
162 CAT=                  /usr/bin/cat
163 ELFDUMP=              /usr/ccs/bin/elfdump
164 M4=                   /usr/ccs/bin/m4
165 STRIP=                /usr/ccs/bin/strip
166 LEX=                  /usr/ccs/bin/lex
167 FLEX=                  $(SFW_ROOT)/bin/flex
168 YACC=                  /usr/ccs/bin/yacc
169 CPP=                  /usr/lib/cpp
170 JAVAC=                 $(JAVA_ROOT)/bin/javac
171 JAVAH=                 $(JAVA_ROOT)/bin/javah
172 JAVADOC=              $(JAVA_ROOT)/bin/javadoc
173 RMIC=                 $(JAVA_ROOT)/bin/rmic
174 JAR=                  $(JAVA_ROOT)/bin/jar
175 CTFCONVERT=           $(ONBLD_TOOLS)/bin/$(MACH)/ctfconvert
176 CTFMERGE=             $(ONBLD_TOOLS)/bin/$(MACH)/ctfmerge
177 CTFSTABS=             $(ONBLD_TOOLS)/bin/$(MACH)/ctfstabs
178 CTFSTRIP=             $(ONBLD_TOOLS)/bin/$(MACH)/ctfstrip
179 NDRGEN=               $(ONBLD_TOOLS)/bin/$(MACH)/ndrgen
180 GENOFFSETS=           $(ONBLD_TOOLS)/bin/genoffsets
181 CTFCVTPTBL=           $(ONBLD_TOOLS)/bin/ctfcvtptbl
182 CTFINDMOD=            $(ONBLD_TOOLS)/bin/ctffindmod
183 XREF=                 $(ONBLD_TOOLS)/bin/xref
184 FIND=                  /usr/bin/find
185 PERL=                 /usr/bin/perl

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186 PYTHON_26=           /usr/bin/python2.6
187 PYTHON=               $(PYTHON_26)
188 SORT=                 /usr/bin/sort
189 TOUCH=                /usr/bin/touch
190 WC=                   /usr/bin/wc
191 XARGS=                 /usr/bin/xargs
192 ELFEDIT=              /usr/bin/elfedit
193 ELFSIGN=              /usr/bin/elfsign
194 DTRACE=                /usr/sbin/dtrace -xnolib
195 UNIQ=                 /usr/bin/uniq
196 TAR=                  /usr/bin/tar

198 FILEMODE=             644
199 DIRMODE=              755

201 #
202 # The version of the patch makeup table optimized for build-time use. Used
203 # during patch builds only.
204 $(PATCH_BUILD)PMTMO_FILE=$(SRC)/patch_makeup_table.mo

206 # Declare that nothing should be built in parallel.
207 # Individual Makefiles can use the .PARALLEL target to declare otherwise.
208 .NO_PARALLEL:

210 # For stylistic checks
211 #
212 # Note that the X and C checks are not used at this time and may need
213 # modification when they are actually used.
214 #
215 CSTYLE=                $(ONBLD_TOOLS)/bin/cstyle
216 CSTYLE_TAIL=           $(ONBLD_TOOLS)/bin/cstyle
217 HDRCHK=                $(ONBLD_TOOLS)/bin/hdrchk
218 HDRCHK_TAIL=          $(ONBLD_TOOLS)/bin/hdrchk
219 JSTYLE=                $(ONBLD_TOOLS)/bin/jstyle

221 DOT_H_CHECK=           \
222     @$(ECHO) "checking $<;" $(CSTYLE) $< $(CSTYLE_TAIL); \
223     $(HDRCHK) $< $(HDRCHK_TAIL)

225 DOT_X_CHECK=           \
226     @$(ECHO) "checking $<;" $(RPCGEN) -C -h $< | $(CSTYLE) $(CSTYLE_TAIL); \
227     $(RPCGEN) -C -h $< | $(HDRCHK) $< $(HDRCHK_TAIL)

229 DOT_C_CHECK=           \
230     @$(ECHO) "checking $<;" $(CSTYLE) $< $(CSTYLE_TAIL)

232 MANIFEST_CHECK=       \
233     @$(ECHO) "checking $<;" \
234     SVCCFG_DTD=$(SRC)/cmd/svc/dtd/service_bundle.dtd.1 \
235     SVCCFG_REPOSITORY=$(SRC)/cmd/svc/seed/global.db \
236     SVCCFG_CONFIGD_PATH=$(SRC)/cmd/svc/configd/svc.configd-native \
237     $(SRC)/cmd/svc/svccfg/svccfg-native validate $<

239 #
240 # IMPORTANT:: If you change any of INS.file, INS.dir, INS.rename,
241 # INS.link or INS.symlink here, then you must also change the
242 # corresponding override definitions in $CLOSED/Makefile.tonic.
243 # If you do not do this, then the closedbins build for the OpenSolaris
244 # community will break. PS, the gatekeepers will be upset too.
245 INS.file=              $(RM) $@; $(INS) -s -m $(FILEMODE) -f $(@D) $<
246 INS.dir=                $(INS) -s -d -m $(DIRMODE) $@
247 # installs and renames at once
248 #
249 INS.rename=            $(INS.file); $(MV) $(@D)/$(<F) $@

251 # install a link

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252 INSLINKTARGET= $<
253 INS.link= $(RM) $@; $(LN) $(INSLINKTARGET) $@
254 INS.symlink= $(RM) $@; $(SYMLINK) $(INSLINKTARGET) $@

256 #
257 # Python bakes the mtime of the .py file into the compiled .pyc and
258 # rebuilds if the baked-in mtime != the mtime of the source file
259 # (rather than only if it's less than), thus when installing python
260 # files we must make certain to not adjust the mtime of the source
261 # (.py) file.
262 #
263 INS.pyfile= $(INS.file); $(TOUCH) -r $< $@

265 # MACH must be set in the shell environment per uname -p on the build host
266 # More specific architecture variables should be set in lower makefiles.
267 #
268 # MACH64 is derived from MACH, and BUILD64 is set to '#' for
269 # architectures on which we do not build 64-bit versions.
270 # (There are no such architectures at the moment.)
271 #
272 # Set BUILD64=# in the environment to disable 64-bit amd64
273 # builds on i386 machines.

275 MACH64_1= $(MACH:sparc=sparcv9)
276 MACH64= $(MACH64_1:i386=amd64)

278 MACH32_1= $(MACH:sparc=sparcv7)
279 MACH32= $(MACH32_1:i386=i86)

281 sparc_BUILD64=
282 i386_BUILD64=
283 BUILD64= $($(_MACH)_BUILD64)

285 #
286 # C compiler mode. Future compilers may change the default on us,
287 # so force extended ANSI mode globally. Lower level makefiles can
288 # override this by setting CCMODE.
289 #
290 CCMODE= -Xa
291 CCMODE64= -Xa

293 #
294 # C compiler verbose mode. This is so we can enable it globally,
295 # but turn it off in the lower level makefiles of things we cannot
296 # (or aren't going to) fix.
297 #
298 CCVERBOSE= -v

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

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

313 # Prevent the removal of static symbols by the SPARC code generator (cg).
314 # The x86 code generator (ube) does not remove such symbols and as such
315 # using this workaround is not applicable for x86.
316 #
317 CCSTATICSYM= -Wc,-Qassembler-ounrefsym=0

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318 #
319 # generate 32-bit addresses in the v9 kernel. Saves memory.
320 CCABS32= -Wc,-xcode=abs32
321 #
322 # generate v9 code which tolerates callers using the v7 ABI, for the sake of
323 # system calls.
324 CC32BITCALLERS= -_gcc=-massume-32bit-callers

326 # GCC, especially, is increasingly beginning to auto-inline functions and
327 # sadly does so separately not under the general -fno-inline-functions
328 # Additionally, we wish to prevent optimisations which cause GCC to clone
329 # functions -- in particular, these may cause unhelpful symbols to be
330 # emitted instead of function names
331 CCNOAUTOINLINE= -_gcc=-fno-inline-small-functions \
332 -_gcc=-fno-inline-functions-called-once \
333 -_gcc=-fno-ipa-cp

335 # One optimization the compiler might perform is to turn this:
336 # #pragma weak foo
337 # extern int foo;
338 # if (&foo)
339 #     foo = 5;
340 # into
341 #     foo = 5;
342 # Since we do some of this (foo might be referenced in common kernel code
343 # but provided only for some cpu modules or platforms), we disable this
344 # optimization.
345 #
346 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
347 i386_CCUNBOUND =
348 CCUNBOUND = $($(_MACH)_CCUNBOUND)

350 #
351 # compiler '-xarch' flag. This is here to centralize it and make it
352 # overridable for testing.
353 sparc_XARCH= -m32
354 sparcv9_XARCH= -m64
355 i386_XARCH=
356 amd64_XARCH= -m64 -Ui386 -U__i386

358 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
359 sparc_AS_XARCH= -xarch=v8plus
360 sparcv9_AS_XARCH= -xarch=v9
361 i386_AS_XARCH=
362 amd64_AS_XARCH= -xarch=amd64 -P -Ui386 -U__i386

364 #
365 # These flags define what we need to be 'standalone' i.e. -not- part
366 # of the rather more cosy userland environment. This basically means
367 # the kernel.
368 #
369 # XX64 future versions of gcc will make -mmodel=kernel imply -mno-red-zone
370 #
371 sparc_STAND_FLAGS= -_gcc=-ffreestanding
372 sparcv9_STAND_FLAGS= -_gcc=-ffreestanding
373 # Disabling MMX also disables 3DNow, disabling SSE also disables all later
374 # additions to SSE (SSE2, AVX ,etc.)
375 NO_SIMD= -_gcc=-mno-mmx -_gcc=-mno-sse
376 i386_STAND_FLAGS= -_gcc=-ffreestanding $(NO_SIMD)
377 amd64_STAND_FLAGS= -xmodel=kernel $(NO_SIMD)

379 SAVEARGS= -Wu,-save_args
380 amd64_STAND_FLAGS += $(SAVEARGS)

382 STAND_FLAGS_32 = $($(_MACH)_STAND_FLAGS)
383 STAND_FLAGS_64 = $($(_MACH64)_STAND_FLAGS)

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385 #
386 # disable the incremental linker
387 ILDOFF= -xildoff
388 #
389 XDEPEND= -xdepend
390 XFFLAG= -xF=%all
391 XESS= -xs
392 XSTRCONST= -xstrconst

394 #
395 # turn warnings into errors (C)
396 CERRWARN = -errtags=yes -errwarn=%all
397 CERRWARN += -erroff=E_EMPTY_TRANSLATION_UNIT
398 CERRWARN += -erroff=E_STATEMENT_NOT_REACHED

400 CERRWARN += -_gcc=-Wno-missing-braces
401 CERRWARN += -_gcc=-Wno-sign-compare
402 CERRWARN += -_gcc=-Wno-unknown-pragmas
403 CERRWARN += -_gcc=-Wno-unused-parameter
404 CERRWARN += -_gcc=-Wno-missing-field-initializers

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

409 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
410 # -nd builds
411 $(RELEASE_BUILD)CERRWARN += -_gcc=-Wno-unused
412 $(RELEASE_BUILD)CERRWARN += -_gcc=-Wno-empty-body

414 #
415 # turn warnings into errors (C++)
416 CCERRWARN= -xwe

418 # C99 mode
419 C99_ENABLE= -xc99=%all
420 C99_DISABLE= -xc99=%none
421 C99MODE= $(C99_DISABLE)
422 C99LMODE= $(C99MODE:-xc99%=-Xc99%)

424 # In most places, assignments to these macros should be appended with +=
425 # (CPPFLAGS.master allows values to be prepended to CPPFLAGS).
426 sparc_CFLAGS= $(sparc_XARCH) $(CCSTATICSYM)
427 sparcv9_CFLAGS= $(sparcv9_XARCH) -dalign $(CCVERBOSE) $(V9ABIWARN) $(CCREGSYM) \
428 $(CCSTATICSYM)
429 i386_CFLAGS= $(i386_XARCH)
430 amd64_CFLAGS= $(amd64_XARCH)

432 sparc_ASFLAGS= $(sparc_AS_XARCH)
433 sparcv9_ASFLAGS=$(sparcv9_AS_XARCH)
434 i386_ASFLAGS= $(i386_AS_XARCH)
435 amd64_ASFLAGS= $(amd64_AS_XARCH)

437 #
438 sparc_COPTFLAG= -xO3
439 sparcv9_COPTFLAG= -xO3
440 i386_COPTFLAG= -O
441 amd64_COPTFLAG= -xO3

443 COPTFLAG= $(MACH)_COPTFLAG
444 COPTFLAG64= $(MACH64)_COPTFLAG

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

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450 # Direct the Sun Studio compiler to use a static globalization prefix based on t
451 # name of the module rather than something unique. Otherwise, objects
452 # will not build deterministically, as subsequent compilations of identical
453 # source will yield objects that always look different.
454 #
455 # In the same spirit, this will also remove the date from the N_OPT stab.
456 CGLOBALSTATIC= -W0,-xglobalstatic

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

462 #
463 # Default debug format for Sun Studio 11 is dwarf, so force it to
464 # generate stabs.
465 #
466 DEBUGFORMAT= -xdebugformat=stabs

468 #
469 # Flags used to build in debug mode for ctf generation. Bugs in the Devpro
470 # compilers currently prevent us from building with cc-emitted DWARF.
471 #
472 CTF_FLAGS_sparc = -g -Wc,-Qiselect-T1 $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)
473 CTF_FLAGS_i386 = -g $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)

475 CTF_FLAGS_sparcv9 = $(CTF_FLAGS_sparc)
476 CTF_FLAGS_amd64 = $(CTF_FLAGS_i386)

478 # Sun Studio produces broken userland code when saving arguments.
479 $(__GNUCC)CTF_FLAGS_amd64 += $(SAVEARGS)

481 CTF_FLAGS_32 = $(CTF_FLAGS_$(MACH)) $(DEBUGFORMAT)
482 CTF_FLAGS_64 = $(CTF_FLAGS_$(MACH64)) $(DEBUGFORMAT)
483 CTF_FLAGS = $(CTF_FLAGS_32)

485 #
486 # Flags used with genoffsets
487 #
488 GOFLAGS = -_noecho \
489 $(CALLSYMS) \
490 $(CDWARFSTR)

492 OFFSETS_CREATE = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
493 $(CC) $(GOFLAGS) $(CFLAGS) $(CPPFLAGS)

495 OFFSETS_CREATE64 = $(GENOFFSETS) -s $(CTFSTABS) -r $(CTFCONVERT) \
496 $(CC) $(GOFLAGS) $(CFLAGS64) $(CPPFLAGS)

498 #
499 # tradeoff time for space (smaller is better)
500 #
501 sparc_SPACEFLAG = -xspace -W0,-It
502 sparcv9_SPACEFLAG = -xspace -W0,-It
503 i386_SPACEFLAG = -xspace
504 amd64_SPACEFLAG =

506 SPACEFLAG = $(MACH)_SPACEFLAG
507 SPACEFLAG64 = $(MACH64)_SPACEFLAG

509 #
510 # The Sun Studio 11 compiler has changed the behaviour of integer
511 # wrap arounds and so a flag is needed to use the legacy behaviour
512 # (without this flag panics/hangs could be exposed within the source).
513 #
514 sparc_IROPTFLAG = -W2,-xwrap_int
515 sparcv9_IROPTFLAG = -W2,-xwrap_int

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516 i386_IROPTFLAG      =
517 amd64_IROPTFLAG    =

519 IROPTFLAG           = $($MACH)_IROPTFLAG
520 IROPTFLAG64         = $($MACH64)_IROPTFLAG

522 sparc_XREGSFLAG     = -xregs=no%appl
523 sparcv9_XREGSFLAG   = -xregs=no%appl
524 i386_XREGSFLAG      =
525 amd64_XREGSFLAG     =

527 XREGSFLAG           = $($MACH)_XREGSFLAG
528 XREGSFLAG64         = $($MACH64)_XREGSFLAG

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

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

553 #
554 # For source message catalogue
555 #
556 .SUFFIXES: $(SUFFIXES) .i .po
557 MSGROOT= $(ROOT)/catalog
558 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)
559 MSGDOMAINPOFILE = $(MSGDOMAIN)/$(POFILE)
560 DCMSGDOMAIN= $(MSGROOT)/LC_TIME/$(TEXT_DOMAIN)
561 DCMSGDOMAINPOFILE = $(DCMSGDOMAIN)/$(DCFILE:.dc=.po)

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

575 #
576 # This is overwritten by local Makefile when PROG is a list.
577 #
578 POFILE= $(PROG).po

580 sparc_CCFLAGS=       -cg92 -compat=4 \
581                      -Qoption ccfe -messages=no%anachronism \

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

597 sparc_CCOPTFLAG=    -O
598 sparcv9_CCOPTFLAG=   -O
599 i386_CCOPTFLAG=     -O
600 amd64_CCOPTFLAG=    -O

602 CCOPTFLAG=          $($MACH)_CCOPTFLAG
603 CCOPTFLAG64=        $($MACH64)_CCOPTFLAG
604 CCFLAGS=             $(CCOPTFLAG) $($MACH)_CCFLAGS
605 CCFLAGS64=           $(CCOPTFLAG64) $($MACH64)_CCFLAGS

607 #
608 #
609 #
610 ELFWRAP_FLAGS =
611 ELFWRAP_FLAGS64 =   -64

613 #
614 # Various mapfiles that are used throughout the build, and delivered to
615 # /usr/lib/ld.
616 #
617 MAPFILE.NED_i386 =   $(SRC)/common/mapfiles/common/map.noexdata
618 MAPFILE.NED_sparc =
619 MAPFILE.NED =        $(MAPFILE.NED_$(MACH))
620 MAPFILE.PGA =        $(SRC)/common/mapfiles/common/map.pagealign
621 MAPFILE.NES =        $(SRC)/common/mapfiles/common/map.noexstk
622 MAPFILE.FLT =        $(SRC)/common/mapfiles/common/map.filter
623 MAPFILE.LEX =        $(SRC)/common/mapfiles/common/map.lex.yy

625 #
626 # Generated mapfiles that are compiler specific, and used throughout the
627 # build. These mapfiles are not delivered in /usr/lib/ld.
628 #
629 MAPFILE.NGB_sparc=   $(SRC)/common/mapfiles/gen/sparc_cc_map.noexglobs
630 $(__GNUCC64)MAPFILE.NGB_sparc= \
631 $(SRC)/common/mapfiles/gen/sparc_gcc_map.noexglobs
632 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexglobs
633 $(__GNUCC64)MAPFILE.NGB_sparcv9= \
634 $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexglobs
635 MAPFILE.NGB_i386=    $(SRC)/common/mapfiles/gen/i386_cc_map.noexglobs
636 $(__GNUCC64)MAPFILE.NGB_i386= \
637 $(SRC)/common/mapfiles/gen/i386_gcc_map.noexglobs
638 MAPFILE.NGB_amd64=   $(SRC)/common/mapfiles/gen/amd64_cc_map.noexglobs
639 $(__GNUCC64)MAPFILE.NGB_amd64= \
640 $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexglobs
641 MAPFILE.NGB =        $(MAPFILE.NGB_$(MACH))

643 #
644 # A generic interface mapfile name, used by various dynamic objects to define
645 # the interfaces and interposers the object must export.
646 #
647 MAPFILE.INT =        mapfile-intf

```

```

649 #
650 # LDLIBS32 can be set in the environment to override the following assignment.
651 # LDLIBS64 can be set to override the assignment made in Makefile.master.64.
652 # These environment settings make sure that no libraries are searched outside
653 # of the local workspace proto area:
654 #     LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
655 #     LDLIBS64=-YP,$ROOT/lib/$MACH64:$ROOT/usr/lib/$MACH64
656 #
657 LDLIBS32 = $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
658 LDLIBS.cmd = $(LDLIBS32)
659 LDLIBS.lib = $(LDLIBS32)
660 #
661 # Define compilation macros.
662 #
663 COMPILE.c= $(CC) $(CFLAGS) $(CPPFLAGS) -c
664 COMPILE64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) -c
665 COMPILE.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) -c
666 COMPILE64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) -c
667 COMPILE.s= $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
668 COMPILE64.s= $(AS) $(ASFLAGS) $(MACH64)_AS_XARCH $(AS_CPPFLAGS)
669 COMPILE.d= $(DTRACE) -G -32
670 COMPILE64.d= $(DTRACE) -G -64
671 COMPILE.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
672 COMPILE64.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

674 CLASSPATH= .
675 COMPILE.java= $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

677 #
678 # Link time macros
679 #
680 CCNEEDED = -lc
681 CCEXTNEEDED = -lcrun -lcstd
682 $(__GNUC)CCNEEDED = -L$(GCCLIBDIR) -R$(GCCLIBDIR) -lstdc++ -lgcc_s
683 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

685 LINK.c= $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
686 LINK64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
687 NORUNPATH= -norunpath -nolib
688 LINK.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) $(NORUNPATH) \
689 $(LDFLAGS) $(CCNEEDED)
690 LINK64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
691 $(LDFLAGS) $(CCNEEDED)

693 #
694 # lint macros
695 #
696 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once
697 # ON is built with a version of lint that has the fix for 4484186.
698 #
699 ALWAYS_LINT_DEFS = -errtags=yes -s
700 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
701 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV
702 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME
703 ALWAYS_LINT_DEFS += $(C99LMODE)
704 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
705 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREAT_WITHOUT_EXCL
706 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
707 # XX64 -- really only needed for amd64 lint
708 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
709 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
710 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
711 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
712 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
713 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED

```

```

714 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
715 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

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

721 SECLEVEL= core
722 LINT.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS) $(CPPFLAGS) \
723 $(ALWAYS_LINT_DEFS)
724 LINT64.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS64) $(CPPFLAGS) \
725 $(ALWAYS_LINT_DEFS)
726 LINT.s= $(LINT.c)

728 # For some future builds, NATIVE_MACH and MACH might be different.
729 # Therefore, NATIVE_MACH needs to be redefined in the
730 # environment as 'uname -p' to override this macro.
731 #
732 # For now at least, we cross-compile amd64 on i386 machines.
733 NATIVE_MACH= $(MACH:amd64=i386)

735 # Define native compilation macros
736 #

738 # Base directory where compilers are loaded.
739 # Defined here so it can be overridden by developer.
740 #
741 SPRO_ROOT= $(BUILD_TOOLS)/SUNWspro
742 SPRO_VROOT= $(SPRO_ROOT)/SS12
743 GNU_ROOT= $(SFW_ROOT)

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

752 # Specify platform compiler versions for languages
753 # that we use (currently only c and c++).
754 #
755 sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
756 $(__GNUC)sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
757 sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
758 $(__GNUC)sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
759 sparc_CPP= /usr/ccs/lib/cpp
760 sparc_AS= /usr/ccs/bin/as -xregsym=no
761 sparc_LD= /usr/ccs/bin/ld
762 sparc_LINT= $(SPRO_ROOT)/sunstudio12.1/bin/lint

764 sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
765 $(__GNUC64)sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
766 sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
767 $(__GNUC64)sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
768 sparcv9_CPP= /usr/ccs/lib/cpp
769 sparcv9_AS= /usr/ccs/bin/as -xregsym=no
770 sparcv9_LD= /usr/ccs/bin/ld
771 sparcv9_LINT= $(SPRO_ROOT)/sunstudio12.1/bin/lint

773 i386_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
774 $(__GNUC)i386_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
775 i386_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
776 $(__GNUC)i386_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
777 i386_CPP= /usr/ccs/lib/cpp
778 i386_AS= /usr/ccs/bin/as
779 $(__GNUC)i386_AS= $(ONBLD_TOOLS)/bin/$(MACH)/aw

```

```

780 i386_LD=          /usr/ccs/bin/ld
781 i386_LINT=        $(SPRO_ROOT)/sunstudio12.1/bin/lint

783 amd64_CC=         $(ONBLD_TOOLS)/bin/$(MACH)/cw _cc
784 $(__GNUCC64)amd64_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw _gcc
785 amd64_CCC=        $(ONBLD_TOOLS)/bin/$(MACH)/cw _CC
786 $(__GNUCC64)amd64_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw _g++
787 amd64_CPP=        /usr/ccs/lib/cpp
788 amd64_AS=         $(ONBLD_TOOLS)/bin/$(MACH)/aw
789 amd64_LD=         /usr/ccs/bin/ld
790 amd64_LINT=       $(SPRO_ROOT)/sunstudio12.1/bin/lint

792 NATIVECC=         $(($(NATIVE_MACH)_CC))
793 NATIVECCC=        $(($(NATIVE_MACH)_CCC))
794 NATIVECPP=        $(($(NATIVE_MACH)_CPP))
795 NATIVEAS=         $(($(NATIVE_MACH)_AS))
796 NATIVELD=         $(($(NATIVE_MACH)_LD))
797 NATIVELINT=       $(($(NATIVE_MACH)_LINT))

799 #
800 # Makefile.master.64 overrides these settings
801 #
802 CC=                $(NATIVECC)
803 CCC=               $(NATIVECCC)
804 CPP=               $(NATIVECPP)
805 AS=                $(NATIVEAS)
806 LD=                $(NATIVELD)
807 LINT=              $(NATIVELINT)

809 # The real compilers used for this build
810 CW_CC_CMD=         $(CC) _compiler
811 CW_CCC_CMD=       $(CCC) _compiler
812 REAL_CC=          $(CW_CC_CMD:sh)
813 REAL_CCC=         $(CW_CCC_CMD:sh)

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

818 BDIRECT=          -Bdirect
819 BDYNAMIC=         -Bdynamic
820 BLOCAL=           -Blocal
821 BNODIRECT=        -Bnodirect
822 BREDUCE=          -Breduce
823 BSTATIC=          -Bstatic

825 ZDEFS=            -zdefs
826 ZDIRECT=          -zdirect
827 ZIGNORE=          -zignore
828 ZINITFIRST=       -zinitfirst
829 ZINTERPOSE=       -zinterpose
830 ZLAZYLOAD=        -zlazyload
831 ZLOADFLTR=        -zloadfltr
832 ZMULDEFS=         -zmuldefs
833 ZNODEFAULTLIB=    -znodefaultlib
834 ZNODEFS=          -znodefs
835 ZNODELETE=        -znodelete
836 ZNODLOPEN=        -znodlopen
837 ZNODUMP=          -znodump
838 ZNOLAZYLOAD=      -znolazyload
839 ZNOLDYNSYM=       -znoldynsym
840 ZNORELOC=         -znoreloc
841 ZNOVERSION=       -znoversion
842 ZRECORD=          -zrecord
843 ZREDLOCSYM=       -zredlocsym
844 ZTEXT=            -ztext
845 ZVERBOSE=         -zverbose

```

```

847 GSHARED=         -G
848 CCMT=             -mt

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

853 sparc_C_PICFLAGS = -K pic
854 sparcv9_C_PICFLAGS = -K pic
855 i386_C_PICFLAGS = -K pic
856 amd64_C_PICFLAGS = -K pic
857 C_PICFLAGS =      $(($(MACH)_C_PICFLAGS))
858 C_PICFLAGS64 =    $(($(MACH64)_C_PICFLAGS))

860 sparc_C_BIGPICFLAGS = -K PIC
861 sparcv9_C_BIGPICFLAGS = -K PIC
862 i386_C_BIGPICFLAGS = -K PIC
863 amd64_C_BIGPICFLAGS = -K PIC
864 C_BIGPICFLAGS =   $(($(MACH)_C_BIGPICFLAGS))
865 C_BIGPICFLAGS64 = $(($(MACH64)_C_BIGPICFLAGS))

867 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
868 sparc_CC_PICFLAGS = -Kpic
869 sparcv9_CC_PICFLAGS = -KPIC
870 i386_CC_PICFLAGS = -Kpic
871 amd64_CC_PICFLAGS = -Kpic
872 CC_PICFLAGS =     $(($(MACH)_CC_PICFLAGS))
873 CC_PICFLAGS64 =   $(($(MACH64)_CC_PICFLAGS))

875 AS_PICFLAGS=      $(C_PICFLAGS)
876 AS_BIGPICFLAGS=   $(C_BIGPICFLAGS)

878 #
879 # Default label for CTF sections
880 #
881 CTFCVTFLAGS=      -i -L VERSION

883 #
884 # Override to pass module-specific flags to ctfmerge. Currently used
885 # only by krtld to turn on fuzzy matching.
886 #
887 CTFMRGFLAGS=

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

891 ELFSIGN_O=        $(TRUE)
892 ELFSIGN_CRYPTO=   $(ELFSIGN_O)
893 ELFSIGN_OBJECT=   $(ELFSIGN_O)
902 $(EXPORT_RELEASE_BUILD)ELFSIGN_O = $(ELFSIGN)
903 $(EXPORT_RELEASE_BUILD)ELFSIGN_CFNAME = SUNWosnetCF
904 $(EXPORT_RELEASE_BUILD)ELFSIGN_KEY = \
905     $(CLOSED)/cmd/cmd-crypto/etc/keys/$(ELFSIGN_CFNAME)
906 $(EXPORT_RELEASE_BUILD)ELFSIGN_CERT= \
907     $(CLOSED)/cmd/cmd-crypto/etc/certs/$(ELFSIGN_CFNAME)
908 $(EXPORT_RELEASE_BUILD)ELFSIGN_SENAME = SUNWosnetSE
909 $(EXPORT_RELEASE_BUILD)ELFSIGN_SEKEY = \
910     $(CLOSED)/cmd/cmd-crypto/etc/keys/$(ELFSIGN_SENAME)
911 $(EXPORT_RELEASE_BUILD)ELFSIGN_SECERT= \
912     $(CLOSED)/cmd/cmd-crypto/etc/certs/$(ELFSIGN_SENAME)
913 $(EXPORT_RELEASE_BUILD)ELFSIGN_CRYPTO= $(ELFSIGN_O) sign \
914     $(ELFSIGN_FORMAT_OPTION) \
915     -k $(ELFSIGN_KEY) -c $(ELFSIGN_CERT) -e $@
916 $(EXPORT_RELEASE_BUILD)ELFSIGN_OBJECT= $(ELFSIGN_O) sign \
917     $(ELFSIGN_FORMAT_OPTION) \
918     -k $(ELFSIGN_SEKEY) -c $(ELFSIGN_SECERT) -e $@

```

```

895 # Rules (normally from make.rules) and macros which are used for post
896 # processing files. Normally, these do stripping of the comment section
897 # automatically.
898 #   RELEASE_CM:      Should be edited to reflect the release.
899 #   POST_PROCESS_O:  Post-processing for '.o' files.
900 #   POST_PROCESS_A:  Post-processing for '.a' files (currently null).
901 #   POST_PROCESS_SO: Post-processing for '.so' files.
902 #   POST_PROCESS:    Post-processing for executable files (no suffix).
903 # Note that these macros are not completely generalized as they are to be
904 # used with the file name to be processed following.
905 #
906 # It is left as an exercise to Release Engineering to embellish the generation
907 # of the release comment string.
908 #
909 #   If this is a standard development build:
910 #       compress the comment section (mcs -c)
911 #       add the standard comment (mcs -a $(RELEASE_CM))
912 #       add the development specific comment (mcs -a $(DEV_CM))
913 #
914 #   If this is an installation build:
915 #       delete the comment section (mcs -d)
916 #       add the standard comment (mcs -a $(RELEASE_CM))
917 #       add the development specific comment (mcs -a $(DEV_CM))
918 #
919 #   If this is an release build:
920 #       delete the comment section (mcs -d)
921 #       add the standard comment (mcs -a $(RELEASE_CM))
922 #
923 # The following list of macros are used in the definition of RELEASE_CM
924 # which is used to label all binaries in the build:
925 #
926 #   RELEASE          Specific release of the build, eg: 5.2
927 #   RELEASE_MAJOR    Major version number part of $(RELEASE)
928 #   RELEASE_MINOR    Minor version number part of $(RELEASE)
929 #   VERSION          Version of the build (alpha, beta, Generic)
930 #   PATCHID          If this is a patch this value should contain
931 #                   the patchid value (eg: "Generic 100832-01"), otherwise
932 #                   it will be set to $(VERSION)
933 #   RELEASE_DATE     Date of the Release Build
934 #   PATCH_DATE       Date the patch was created, if this is blank it
935 #                   will default to the RELEASE_DATE
936 #
937 RELEASE_MAJOR= 5
938 RELEASE_MINOR= 11
939 RELEASE= $(RELEASE_MAJOR).$(RELEASE_MINOR)
940 VERSION= SunOS Development
941 PATCHID= $(VERSION)
942 RELEASE_DATE= release date not set
943 PATCH_DATE= $(RELEASE_DATE)
944 RELEASE_CM= "@($ (POUND_SIGN))SunOS $(RELEASE) $(PATCHID) $(PATCH_DATE)"
945 DEV_CM= "@($ (POUND_SIGN))SunOS Internal Development: non-nightly build"
946 #
947 PROCESS_COMMENT= @?${MCS} -c -a $(RELEASE_CM) -a $(DEV_CM)
948 $( (STRIP_COMMENTS) )PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
949 $( (RELEASE_BUILD) )PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM)
950 #
951 STRIP_STABS= :
952 $( (RELEASE_BUILD) )STRIP_STABS= $( (STRIP) ) -x $@
953 #
954 POST_PROCESS_O= $( (PROCESS_COMMENT) ) $@
955 POST_PROCESS_A=
956 POST_PROCESS_SO= $( (PROCESS_COMMENT) ) $@ ; $( (STRIP_STABS) ) ; \
957                 $( (ELFSIGN_OBJECT) )
958 POST_PROCESS= $( (PROCESS_COMMENT) ) $@ ; $( (STRIP_STABS) ) ; \
959               $( (ELFSIGN_OBJECT) )

```

```

961 #
962 # chk4ubin is a tool that inspects a module for a symbol table
963 # ELF section size which can trigger an OBP bug on older platforms.
964 # This problem affects only specific sun4u bootable modules.
965 #
966 CHK4UBIN= $( (ONBLD_TOOLS) )/bin/$( (MACH) )/chk4ubin
967 CHK4UBINFLAGS=
968 CHK4UBINARY= $( (CHK4UBIN) ) $( (CHK4UBINFLAGS) ) $@
969 #
970 #
971 # PKGARCHIVE specifies the default location where packages should be
972 # placed if built.
973 #
974 $( (RELEASE_BUILD) )PKGARCHIVESUFFIX= -nd
975 PKGARCHIVE=$( (SRC) )/../../packages/$( (MACH) )/nightly$( (PKGARCHIVESUFFIX) )
976 #
977 #
978 # The repositories will be created with these publisher settings. To
979 # update an image to the resulting repositories, this must match the
980 # publisher name provided to "pkg set-publisher."
981 #
982 PKGPUBLISHER_REDIST= on-nightly
983 PKGPUBLISHER_NONREDIST= on-extra
984 #
985 #   Default build rules which perform comment section post-processing.
986 #
987 .c:
988     $( (LINK.c) ) -o $@ $< $( (LDLIBS) )
989     $( (POST_PROCESS) )
990 .c.o:
991     $( (COMPILE.c) ) $( (OUTPUT_OPTION) ) $< $( (CTFCONVERT_HOOK) )
992     $( (POST_PROCESS_O) )
993 .c.a:
994     $( (COMPILE.c) ) -o $% $<
995     $( (PROCESS_COMMENT) ) $%
996     $( (AR) ) $( (ARFLAGS) ) $@ $%
997     $( (RM) ) $%
998 .s.o:
999     $( (COMPILE.s) ) -o $@ $<
1000     $( (POST_PROCESS_O) )
1001 .s.a:
1002     $( (COMPILE.s) ) -o $% $<
1003     $( (PROCESS_COMMENT) ) $%
1004     $( (AR) ) $( (ARFLAGS) ) $@ $%
1005     $( (RM) ) $%
1006 .cc:
1007     $( (LINK.cc) ) -o $@ $< $( (LDLIBS) )
1008     $( (POST_PROCESS) )
1009 .cc.o:
1010     $( (COMPILE.cc) ) $( (OUTPUT_OPTION) ) $<
1011     $( (POST_PROCESS_O) )
1012 .cc.a:
1013     $( (COMPILE.cc) ) -o $% $<
1014     $( (AR) ) $( (ARFLAGS) ) $@ $%
1015     $( (PROCESS_COMMENT) ) $%
1016     $( (RM) ) $%
1017 .y:
1018     $( (YACC.y) ) $<
1019     $( (LINK.c) ) -o $@ y.tab.c $( (LDLIBS) )
1020     $( (POST_PROCESS) )
1021     $( (RM) ) y.tab.c
1022 .y.o:
1023     $( (YACC.y) ) $<
1024     $( (COMPILE.c) ) -o $@ y.tab.c $( (CTFCONVERT_HOOK) )
1025     $( (POST_PROCESS_O) )
1026     $( (RM) ) y.tab.c

```



```

1027 .l:
1028     $(RM) $*.c
1029     $(LEX.l) $< > $*.c
1030     $(LINK.c) -o $@ $*.c -ll $(LDLIBS)
1031     $(POST_PROCESS)
1032     $(RM) $*.c
1033 .l.o:
1034     $(RM) $*.c
1035     $(LEX.l) $< > $*.c
1036     $(COMPILE.c) -o $@ $*.c $(CTFCONVERT_HOOK)
1037     $(POST_PROCESS_O)
1038     $(RM) $*.c

1040 .bin.o:
1041     $(COMPILE.b) -o $@ $<
1042     $(POST_PROCESS_O)

1044 .java.class:
1045     $(COMPILE.java) $<

1047 # Bourne and Korn shell script message catalog build rules.
1048 # We extract all gettext strings with sed(1) (being careful to permit
1049 # multiple gettext strings on the same line), weed out the dups, and
1050 # build the catalogue with awk(1).

1052 .sh.po .ksh.po:
1053     $(SED) -n -e ":a"
1054     -e "h"
1055     -e "s/.*gettext *\([^\"]*\).*\/\1/p"
1056     -e "x"
1057     -e "s/\(.*\)gettext *\([^\"]*\).*\/\1\2/"
1058     -e "t a"
1059     $< | sort -u | awk '{ print "msgid\t" $$0 "\nmsgstr" }' > $@

1061 #
1062 # Python and Perl executable and message catalog build rules.
1063 #
1064 .SUFFIXES: .pl .pm .py .pyc

1066 .pl:
1067     $(RM) $@;
1068     $(SED) -e "s@TEXT_DOMAIN@\"$(TEXT_DOMAIN)\"@" $< > $@;
1069     $(CHMOD) +x $@

1071 .py:
1072     $(RM) $@; $(CAT) $< > $@; $(CHMOD) +x $@

1074 .py.pyc:
1075     $(RM) $@
1076     $(PYTHON) -mpy_compile $<
1077     @[ $(<)c = $@ ] || $(MV) $(<)c $@

1079 .py.po:
1080     $(GNUXGETTEXT) $(GNUXGETFLAGS) -d $(<F:%.py=%) $< ;

1082 .pl.po .pm.po:
1083     $(XGETTEXT) $(XGETFLAGS) -d $(<F) $< ;
1084     $(RM) $@ ;
1085     $(SED) "/^domain/d" < $(<F).po > $@ ;
1086     $(RM) $(<F).po

1088 #
1089 # When using xgettext, we want messages to go to the default domain,
1090 # rather than the specified one. This special version of the
1091 # COMPILE.cpp macro effectively prevents expansion of TEXT_DOMAIN,
1092 # causing xgettext to put all messages into the default domain.

```

```

1093 #
1094 CPPFORPO=$(COMPILE.cpp:\ "$(TEXT_DOMAIN)\ "=TEXT_DOMAIN)

1096 .c.i:
1097     $(CPPFORPO) $< > $@

1099 .h.i:
1100     $(CPPFORPO) $< > $@

1102 .y.i:
1103     $(YACC) -d $<
1104     $(CPPFORPO) y.tab.c > $@
1105     $(RM) y.tab.c

1107 .l.i:
1108     $(LEX) $<
1109     $(CPPFORPO) lex.yy.c > $@
1110     $(RM) lex.yy.c

1112 .c.po:
1113     $(CPPFORPO) $< > $<.i
1114     $(BUILD.po)

1116 .y.po:
1117     $(YACC) -d $<
1118     $(CPPFORPO) y.tab.c > $<.i
1119     $(BUILD.po)
1120     $(RM) y.tab.c

1122 .l.po:
1123     $(LEX) $<
1124     $(CPPFORPO) lex.yy.c > $<.i
1125     $(BUILD.po)
1126     $(RM) lex.yy.c

1128 #
1129 # Rules to perform stylistic checks
1130 #
1131 .SUFFIXES: .x .xml .check .xmlchk

1133 .h.check:
1134     $(DOT_H_CHECK)

1136 .x.check:
1137     $(DOT_X_CHECK)

1139 .xml.xmlchk:
1140     $(MANIFEST_CHECK)

1142 #
1143 # Include rules to render automated sccs get rules "safe".
1144 #
1145 include $(SRC)/Makefile.noget

```

new/usr/src/lib/gss_mechs/mech_dh/backend/Makefile.com

1

```
*****
2674 Sat Aug 3 15:26:11 2013
new/usr/src/lib/gss_mechs/mech_dh/backend/Makefile.com
3971 remove EXPORT_RELEASE_BUILD
*****
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24 #
25 #
26 #
27 # This make file will build mech_dh.so.1. This shared object
28 # contains all the functionality needed to support Diffie-Hellman GSS-API
29 # mechanism.
30 #
31 #
32 LIBRARY= mech_dh.a
33 VERS = .1
34 #
35 MECH = context.o context_establish.o cred.o crypto.o dhmech.o \
36 MICwrap.o name.o oid.o seq.o token.o support.o validate.o
37 #
38 DERIVED_OBJS = xdr_token.o
39 #
40 CRYPTO = md5.o
41 #
42 OBJECTS= $(MECH) $(CRYPTO) $(DERIVED_OBJS)
43 #
44 # include library definitions
45 include ../../../../Makefile.lib
46 #
47 MAKEFILE_EXPORT = $(CLOSED)/lib/gss_mechs/mech_dh/backend/Makefile.export
48 $(EXPORT_RELEASE_BUILD)include $(MAKEFILE_EXPORT)
49 #
50 #
51 CPPFLAGS += -I../mech -I../crypto -I$(SRC)/uts/common/gssapi/include
52 #
53 CERRWARN += -_gcc=-Wno-parentheses
54 CERRWARN += -_gcc=-Wno-unused-variable
55 CERRWARN += -_gcc=-Wno-uninitialized
56 #
57 $(PICS) := CFLAGS += $(XFFLAG)
58 $(PICS) := CCFLAGS += $(XFFLAG)
59 $(PICS) := CFLAGS64 += $(XFFLAG)
60 $(PICS) := CCFLAGS64 += $(XFFLAG)
```

new/usr/src/lib/gss_mechs/mech_dh/backend/Makefile.com

2

```
51 DYNFLAGS += $(ZIGNORE)
52 #
53 LIBS = $(DYNLIB)
54 LIBNAME = $(LIBRARY:%.a=%)
55 #
56 MAPFILES = ../mapfile-vers
57 #
58 LDLIBS += -lgss -lnsl -lc
59 #
60 RPCGEN += -C
61 SED = sed
62 #
63 .KEEP_STATE:
64 #
65 CSRCS = $(MECH:%.o=../mech/%.c) $(CRYPTO:%.o=../crypto/%.c)
66 SRCS = $(CSRCS)
67 #
68 ROOTLIBDIR = $(ROOT)/usr/lib/gss
69 ROOTLIBDIR64 = $(ROOT)/usr/lib/$(MACH64)/gss
70 #
71 #LINTFLAGS += -dirout=lint -errfmt=simple
72 #LINTFLAGS64 += -dirout=lint -errfmt=simple -errchk all
73 LINTOUT = lint.out
74 LINTSRC = $(LINTLIB:%.ln=%)
75 ROOTLINTDIR = $(ROOTLIBDIR)
76 ROOTLINT = $(LINTSRC:%=$(ROOTLINTDIR)/%)
77 #
78 CLEANFILES += $(LINTOUT) $(LINTLIB)
79 #
80 lint: lintcheck
81 #
82 $(ROOTLIBDIR):
83 $(INS.dir)
84 #
85 $(ROOTLIBDIR64):
86 $(INS.dir)
87 #
88 $(OBJS): ../mech/dh_gssapi.h ../mech/token.h ../mech/oid.h
89 #
90 objs/%.o pics/%.o: ../crypto/%.c
91 $(COMPILE.c) -o $@ $<
92 $(POST_PROCESS_O)
93 #
94 objs/%.o pics/%.o: ../mech/%.c
95 $(COMPILE.c) -o $@ $<
96 $(POST_PROCESS_O)
97 #
98 objs/%.o pics/%.o: ../profile/%.c
99 $(COMPILE.c) -o $@ $<
100 $(POST_PROCESS_O)
101 #
102 # include library targets
103 include ../../../../Makefile.targ
```

new/usr/src/lib/gss_mechs/mech_dh/dh1024/Makefile.com

1

```
*****
2480 Sat Aug 3 15:26:12 2013
new/usr/src/lib/gss_mechs/mech_dh/dh1024/Makefile.com
3971 remove EXPORT_RELEASE_BUILD
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26 #
27 # This make file will build dh1024.so.1. This shared object
28 # contains the functionality needed to initialize the Diffie-Hellman GSS-API
29 # mechanism with 1024 bit key length. This library, in turn, loads the
30 # generic Diffie-Hellman GSS-API backend, dhmech.so
31 #

33 LIBRARY= dh1024-0.a
34 VERS = .1

36 DH1024= dh1024.o dh_common.o generic_key.o

38 OBJECTS= $(DH1024)

40 # include library definitions
41 include ../../../../Makefile.lib

43 MAKEFILE_EXPORT = $(CLOSED)/lib/gss_mechs/mech_dh/dh1024/Makefile.export
44 $(EXPORT_RELEASE_BUILD)include $(MAKEFILE_EXPORT)

43 CPPFLAGS += -I../../backend/mech -I../../backend/crypto
44 CPPFLAGS += -I$(SRC)/lib/libnsl/include
45 CPPFLAGS += -I$(SRC)/uts/common/gssapi/include

47 $(PICS) := CFLAGS += $(XFFLAG)
48 $(PICS) := CCFLAGS += $(XFFLAG)
49 $(PICS) := CFLAGS64 += $(XFFLAG)
50 $(PICS) := CCFLAGS64 += $(XFFLAG)

52 DYNFLAGS += $(ZIGNORE)

54 LIBS = $(DYNLIB)
55 LIBNAME = $(LIBRARY:%.a=%)

57 MAPFILES = ../../mapfile-vers
```

new/usr/src/lib/gss_mechs/mech_dh/dh1024/Makefile.com

2

```
59 LDLIBS += -lnsl -lmp -lc

61 .KEEP_STATE:

63 SRCS= ../dh1024.c ../../dh_common/dh_common.c ../../dh_common/generic_key.c

65 ROOTLIBDIR = $(ROOT)/usr/lib/gss
66 ROOTLIBDIR64 = $(ROOT)/usr/lib/$(MACH64)/gss

68 #LINTFLAGS += -errfmt=simple
69 #LINTFLAGS64 += -errfmt=simple
70 LINTOUT = lint.out
71 LINTSRC = $(LINTLIB:%.ln=%)
72 ROOTLINTDIR = $(ROOTLIBDIR)
73 #ROOTLINT = $(LINTSRC:%=$(ROOTLINTDIR)/%)

75 CLEANFILES += $(LINTOUT) $(LINTLIB)

77 lint: lintcheck

79 $(ROOTLIBDIR):
80     $(INS.dir)

82 $(ROOTLIBDIR64):
83     $(INS.dir)

85 # include library targets
86 include ../../../../Makefile.targ

88 objs/%.o pics/%.o: ../%.c
89     $(COMPILE.c) -o $@ $<
90     $(POST_PROCESS_O)

92 objs/%.o pics/%.o: ../../dh_common/%.c
93     $(COMPILE.c) -o $@ $<
94     $(POST_PROCESS_O)

96 objs/%.o pics/%.o: ../profile/%.c
97     $(COMPILE.c) -o $@ $<
98     $(POST_PROCESS_O)
```

new/usr/src/lib/gss_mechs/mech_dh/dh192/Makefile.com

1

```
*****
2472 Sat Aug 3 15:26:13 2013
new/usr/src/lib/gss_mechs/mech_dh/dh192/Makefile.com
3971 remove EXPORT_RELEASE_BUILD
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26 #
27 # This make file will build dh192.so.1. This shared object
28 # contains the functionality needed to initialize the Diffie-Hellman GSS-API
29 # mechanism with 192 bit key length. This library, in turn, loads the
30 # generic Diffie-Hellman GSS-API backend, dhmech.so
31 #

33 LIBRARY= dh192-0.a
34 VERS = .1

36 DH192= dh192.o dh_common.o generic_key.o

38 OBJECTS= $(DH192)

40 # include library definitions
41 include ../../../../Makefile.lib

43 MAKEFILE_EXPORT = $(CLOSED)/lib/gss_mechs/mech_dh/dh192/Makefile.export
44 $(EXPORT_RELEASE_BUILD)include $(MAKEFILE_EXPORT)

43 CPPFLAGS += -I../../backend/mech -I../../backend/crypto
44 CPPFLAGS += -I$(SRC)/lib/libnsl/include
45 CPPFLAGS += -I$(SRC)/uts/common/gssapi/include

47 $(PICS) := CFLAGS += $(XFFLAG)
48 $(PICS) := CCFLAGS += $(XFFLAG)
49 $(PICS) := CFLAGS64 += $(XFFLAG)
50 $(PICS) := CCFLAGS64 += $(XFFLAG)

52 DYNFLAGS += $(ZIGNORE)

54 LIBS = $(DYNLIB)
55 LIBNAME = $(LIBRARY:%.a=%)

57 MAPFILES = ../../mapfile-vers
```

new/usr/src/lib/gss_mechs/mech_dh/dh192/Makefile.com

2

```
59 LDLIBS += -lnsl -lmp -lc

61 .KEEP_STATE:

63 SRCS= ../dh192.c ../../dh_common/dh_common.c ../../dh_common/generic_key.c

65 ROOTLIBDIR = $(ROOT)/usr/lib/gss
66 ROOTLIBDIR64 = $(ROOT)/usr/lib/$(MACH64)/gss

68 #LINTFLAGS += -errfmt=simple
69 #LINTFLAGS64 += -errfmt=simple
70 LINTOUT = lint.out
71 LINTSRC = $(LINTLIB:%.ln=%)
72 ROOTLINTDIR = $(ROOTLIBDIR)
73 #ROOTLINT = $(LINTSRC:%=$(ROOTLINTDIR)/%)

75 CLEANFILES += $(LINTOUT) $(LINTLIB)

77 lint: lintcheck

79 $(ROOTLIBDIR):
80     $(INS.dir)

82 $(ROOTLIBDIR64):
83     $(INS.dir)

85 # include library targets
86 include ../../../../Makefile.targ

88 objs/%.o pics/%.o: ../%.c
89     $(COMPILE.c) -o $@ $<
90     $(POST_PROCESS_O)

92 objs/%.o pics/%.o: ../../dh_common/%.c
93     $(COMPILE.c) -o $@ $<
94     $(POST_PROCESS_O)

96 objs/%.o pics/%.o: ../profile/%.c
97     $(COMPILE.c) -o $@ $<
98     $(POST_PROCESS_O)
```

new/usr/src/lib/gss_mechs/mech_dh/dh640/Makefile.com

1

```
*****
2473 Sat Aug 3 15:26:14 2013
new/usr/src/lib/gss_mechs/mech_dh/dh640/Makefile.com
3971 remove EXPORT_RELEASE_BUILD
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26 #
27 # This make file will build dh640.so.1. This shared object
28 # contains the functionality needed to initialize the Diffie-Hellman GSS-API
29 # mechanism with 640 bit key length. This library, in turn, loads the
30 # generic Diffie-Hellman GSS-API backend, dhmech.so
31 #

33 LIBRARY= dh640-0.a
34 VERS = .1

36 DH640= dh640.o dh_common.o generic_key.o

38 OBJECTS= $(DH640)

40 # include library definitions
41 include ../../../../Makefile.lib

43 MAKEFILE_EXPORT = $(CLOSED)/lib/gss_mechs/mech_dh/dh640/Makefile.export
44 $(EXPORT_RELEASE_BUILD)include $(MAKEFILE_EXPORT)

43 CPPFLAGS += -I../../backend/mech -I../../backend/crypto
44 CPPFLAGS += -I$(SRC)/lib/libnsl/include
45 CPPFLAGS += -I$(SRC)/uts/common/gssapi/include

47 $(PICS) := CFLAGS += $(XFFLAG)
48 $(PICS) := CCFLAGS += $(XFFLAG)
49 $(PICS) := CFLAGS64 += $(XFFLAG)
50 $(PICS) := CCFLAGS64 += $(XFFLAG)

52 DYNFLAGS += $(ZIGNORE)

54 LIBS = $(DYNLIB)
55 LIBNAME = $(LIBRARY:%.a=%)

57 MAPFILES = ../../mapfile-vers
```

new/usr/src/lib/gss_mechs/mech_dh/dh640/Makefile.com

2

```
59 LDLIBS += -lnsl -lmp -lc

61 .KEEP_STATE:

63 SRCS= ../dh640.c ../../dh_common/dh_common.c ../../dh_common/generic_key.c

65 ROOTLIBDIR = $(ROOT)/usr/lib/gss
66 ROOTLIBDIR64 = $(ROOT)/usr/lib/$(MACH64)/gss

68 #LINTFLAGS += -errfmt=simple
69 #LINTFLAGS64 += -errfmt=simple
70 LINTOUT = lint.out
71 LINTSRC = $(LINTLIB:%.ln=%)
72 ROOTLINTDIR = $(ROOTLIBDIR)
73 #ROOTLINT = $(LINTSRC:%=$(ROOTLINTDIR)/%)

75 CLEANFILES += $(LINTOUT) $(LINTLIB)

77 lint: lintcheck

79 $(ROOTLIBDIR):
80     $(INS.dir)

82 $(ROOTLIBDIR64):
83     $(INS.dir)

85 # include library targets
86 include ../../../../Makefile.targ

88 objs/%.o pics/%.o: ../%.c
89     $(COMPILE.c) -o $@ $<
90     $(POST_PROCESS_O)

92 objs/%.o pics/%.o: ../../dh_common/%.c
93     $(COMPILE.c) -o $@ $<
94     $(POST_PROCESS_O)

96 objs/%.o pics/%.o: ../profile/%.c
97     $(COMPILE.c) -o $@ $<
98     $(POST_PROCESS_O)
```

new/usr/src/lib/gss_mechs/mech_dummy/Makefile.com

1

```
*****
1455 Sat Aug 3 15:26:15 2013
new/usr/src/lib/gss_mechs/mech_dummy/Makefile.com
3971 remove EXPORT_RELEASE_BUILD
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25 #
26 #
27 # The mech_dummy shared object contains all the functionality needed to
28 # support the Dummy GSS-API mechanism.
29 #
30 #
31 LIBRARY =      mech_dummy.a
32 VERS =        .1
33 OBJECTS =      dmech.o
34 #
35 include $(SRC)/lib/Makefile.lib
36 #
37 # There should be a mapfile here
38 MAPFILES =
39 #
40 CPPFLAGS +=    -I../libgss -I$(SRC)/uts/common/gssapi/include \
41               -I$(ROOT)/usr/include/gssapi
42 #
43 CERRWARN +=    -_gcc=-Wno-parentheses
44 CERRWARN +=    -_gcc=-Wno-uninitialized
45 #
46 MAKEFILE_EXPORT = $(CLOSED)/lib/gss_mechs/mech_dummy/Makefile.export
47 $(EXPORT_RELEASE_BUILD)include $(MAKEFILE_EXPORT)
48 #
49 #
50 .KEEP_STATE:
51 #
52 all: $(LIBS)
53 #
54 lint: lintcheck
55 #
56 include $(SRC)/lib/Makefile.targ
```

```
*****
```

```
1702 Sat Aug 3 15:26:16 2013
```

```
new/usr/src/lib/gss_mechs/mech_spnego/Makefile.com
```

```
3971 remove EXPORT_RELEASE_BUILD
```

```
*****
```

```
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26 #
27 # This make file will build mech_spnego.so.1. This shared object
28 # contains all the functionality needed to support the SPNEGO GSS-API
29 # mechanism.
30 #

32 LIBRARY =      mech_spnego.a
33 VERS =        .1
34 OBJECTS =      spnego_mech.o spnego_disp_status.o spnego_kerrs.o

36 # include library definitions
37 include ../../../../Makefile.lib

39 LIBS =         $(DYNLIB)
40 ROOTLIBDIR =   $(ROOT)/usr/lib/gss
41 ROOTLIBDIR64 = $(ROOT)/usr/lib/$(MACH64)/gss
42 SRCDIR =       ../mech

44 MAPFILES =     ../mapfile-vers

46 CPPFLAGS +=   -I$(SRC)/uts/common/gssapi/include $(DEBUG) -I$(SRC)/lib/gss_mechs/m

48 CERRWARN +=   -_gcc=-Wno-unused-function
49 CERRWARN +=   -_gcc=-Wno-type-limits

51 MAKEFILE_EXPORT = $(CLOSED)/lib/gss_mechs/mech_spnego/Makefile.export
52 $(EXPORT_RELEASE_BUILD)include $(MAKEFILE_EXPORT)

51 .KEEP_STATE:

53 all: $(LIBS)

55 lint: lintcheck

57 # include library targets
58 include ../../../../Makefile.targ
```

```

*****
7767 Sat Aug 3 15:26:16 2013
new/usr/src/lib/libgss/Makefile.com
3971 remove EXPORT_RELEASE_BUILD
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23 #

25 LIBRARY = libgss.a
26 VERS = .1

28 GSSOBJECTS = g_acquire_cred.o \
29             g_acquire_cred_with_pw.o \
30             g_store_cred.o \
31             g_rel_cred.o \
32             g_init_sec_context.o \
33             g_accept_sec_context.o \
34             g_process_context.o \
35             g_delete_sec_context.o \
36             g_imp_sec_context.o \
37             g_exp_sec_context.o \
38             g_context_time.o \
39             g_sign.o \
40             g_verify.o \
41             g_seal.o \
42             g_unseal.o \
43             g_dsp_status.o \
44             g_compare_name.o \
45             g_dsp_name.o \
46             g_imp_name.o \
47             g_rel_name.o \
48             g_rel_buffer.o \
49             g_rel_oid_set.o \
50             g_oid_ops.o \
51             g_inquire_cred.o \
52             g_inquire_context.o \
53             g_inquire_names.o \
54             g_initialize.o \
55             g_glue.o \
56             gssd_pname_to_uid.o \
57             oid_ops.o \
58             g_canon_name.o \
59             g_dup_name.o \
60             g_export_name.o \
61             g_utils.o \

```

```

62             g_userok.o \
63             g_buffer_set.o \
64             g_inq_context_oid.o \

67 # defines the duplicate sources we share with gsscred
68 GSSCRED_DIR = $(SRC)/cmd/gss/gsscred
69 GSSCREDOBJ = gsscred_utils.o gsscred_file.o
70 # defines the duplicate sources we share with krb5 mech
71 KRB5DIR = $(SRC)/lib/gss_mechs/mech_krb5/mech
72 KRB5OBJ = rel_buffer.o util_buffer_set.o disp_com_err_status.o \
73           util_buffer.o util_errmap.o
74 # defines the duplicate sources we share with krb5 mech error table
75 KRB5ETDIR = $(SRC)/lib/gss_mechs/mech_krb5/et
76 KRB5ETOBJ = error_message.o adb_err.o adm_err.o asnl_err.o \
77            chpass_util_strings.o \
78            gssapi_err_krb5.o gssapi_err_generic.o \
79            import_err.o \
80            kadm_err.o kdb5_err.o kdc5_err.o kpasswd_strings.o krb5_err.o \
81            kv5m_err.o prof_err.o pty_err.o ss_err.o
82 # defines the duplicate sources we share with kernel module
83 UTSGSSDIR = $(SRC)/uts/common/gssapi
84 UTSGSSOBJ = gen_oids.o

86 SRCS += $(GSSCREDOBJ:%.o=$(GSSCRED_DIR)/%.c) \
87          $(KRB5OBJ:%.o=$(KRB5DIR)/%.c) \
88          $(KRB5ETOBJ:%.o=$(KRB5ETDIR)/%.c) \
89          $(UTSGSSOBJ:%.o=$(UTSGSSDIR)/%.c)
90 GSSLINTSRC = $(GSSOBJECTS:%.o=$(SRCDIR)/%.c) \
91             $(GSSCREDOBJ:%.o=$(GSSCRED_DIR)/%.c) \
92             $(UTSGSSOBJ:%.o=$(UTSGSSDIR)/%.c)
93 OBJECTS = $(GSSOBJECTS) $(GSSCREDOBJ) $(KRB5OBJ) $(UTSGSSOBJ) $(KRB5ETOBJ)

95 # include library definitions
96 include ../../Makefile.lib

98 LIBS = $(DYNLIB) $(LINTLIB)

100 $(LINTLIB):= SRCS = $(SRCDIR)/$(LINTSRC)
101 LDLIBS += -lc

103 CPPFLAGS += -I$(GSSCRED_DIR) -I$(SRC)/uts/common/gssapi/include \
104             -I$(SRC)/uts/common/gssapi/mechs/krb5/include \
105             -I$(SRC)/uts/common/gssapi/ \
106             -I$(SRC)/lib/gss_mechs/mech_krb5/include/ \
107             -DHAVE_STDLIB_H

109 CERRWARN += -gcc=-Wno-unused-function
110 CERRWARN += -gcc=-Wno-uninitialized
111 CERRWARN += -gcc=-Wno-parentheses
112 CERRWARN += -gcc=-Wno-empty-body

114 $(EXPORT_RELEASE_BUILD)include $(CLOSED)/lib/libgss/Makefile.export

114 .KEEP_STATE:

116 all: $(LIBS)

118 lintcheck:= SRCS= $(GSSLINTSRC)

120 lint: lintcheck

122 $(GSSCREDOBJ:%.o=pics/%.o):
123     $(COMPILE.c) -o $@ $(@:pics/%.o=$(GSSCRED_DIR)/%.c)
124     $(POST_PROCESS_O)

```



```

126 # we need this in libgss so we don't have to link against mech_krb5
127 pics/rel_buffer.o: $(KRB5DIR)/rel_buffer.c
128 $(COMPILE.c) -o $@ $(KRB5DIR)/rel_buffer.c
129 $(POST_PROCESS_O)

131 # we need this in libgss so we don't have to link against mech_krb5
132 pics/util_buffer_set.o: $(KRB5DIR)/util_buffer_set.c
133 $(COMPILE.c) -o $@ $(KRB5DIR)/util_buffer_set.c
134 $(POST_PROCESS_O)

136 # we need this in libgss so we don't have to link against mech_krb5
137 pics/disp_com_err_status.o: $(KRB5DIR)/disp_com_err_status.c
138 $(COMPILE.c) -o $@ $(KRB5DIR)/disp_com_err_status.c
139 $(POST_PROCESS_O)

141 # we need this in libgss so we don't have to link against mech_krb5
142 pics/util_buffer.o: $(KRB5DIR)/util_buffer.c
143 $(COMPILE.c) -o $@ $(KRB5DIR)/util_buffer.c
144 $(POST_PROCESS_O)

146 # we need this in libgss so we don't have to link against mech_krb5
147 pics/util_errmap.o: $(KRB5DIR)/util_errmap.c
148 $(COMPILE.c) -o $@ $(KRB5DIR)/util_errmap.c
149 $(POST_PROCESS_O)

151 # we need this in libgss so we don't have to link against mech_krb5
152 pics/error_message.o: $(KRB5ETDIR)/error_message.c
153 $(COMPILE.c) -o $@ $(KRB5ETDIR)/error_message.c
154 $(POST_PROCESS_O)

156 # we need this in libgss so we don't have to link against mech_krb5
157 pics/adb_err.o: $(KRB5ETDIR)/adb_err.c
158 $(COMPILE.c) -o $@ $(KRB5ETDIR)/adb_err.c
159 $(POST_PROCESS_O)

161 pics/adm_err.o: $(KRB5ETDIR)/adm_err.c
162 $(COMPILE.c) -o $@ $(KRB5ETDIR)/adm_err.c
163 $(POST_PROCESS_O)

165 # we need this in libgss so we don't have to link against mech_krb5
166 pics/asnl_err.o: $(KRB5ETDIR)/asnl_err.c
167 $(COMPILE.c) -o $@ $(KRB5ETDIR)/asnl_err.c
168 $(POST_PROCESS_O)

170 # we need this in libgss so we don't have to link against mech_krb5
171 pics/chpass_util_strings.o: $(KRB5ETDIR)/chpass_util_strings.c
172 $(COMPILE.c) -o $@ $(KRB5ETDIR)/chpass_util_strings.c
173 $(POST_PROCESS_O)

175 # we need this in libgss so we don't have to link against mech_krb5
176 pics/gssapi_err_generic.o: $(KRB5ETDIR)/gssapi_err_generic.c
177 $(COMPILE.c) -o $@ $(KRB5ETDIR)/gssapi_err_generic.c
178 $(POST_PROCESS_O)

180 # we need this in libgss so we don't have to link against mech_krb5
181 pics/gssapi_err_krb5.o: $(KRB5ETDIR)/gssapi_err_krb5.c
182 $(COMPILE.c) -o $@ $(KRB5ETDIR)/gssapi_err_krb5.c
183 $(POST_PROCESS_O)

186 # we need this in libgss so we don't have to link against mech_krb5
187 pics/import_err.o: $(KRB5ETDIR)/import_err.c
188 $(COMPILE.c) -o $@ $(KRB5ETDIR)/import_err.c
189 $(POST_PROCESS_O)

191 # we need this in libgss so we don't have to link against mech_krb5

```

```

192 pics/kadm_err.o: $(KRB5ETDIR)/kadm_err.c
193 $(COMPILE.c) -o $@ $(KRB5ETDIR)/kadm_err.c
194 $(POST_PROCESS_O)

196 # we need this in libgss so we don't have to link against mech_krb5
197 pics/kdb5_err.o: $(KRB5ETDIR)/kdb5_err.c
198 $(COMPILE.c) -o $@ $(KRB5ETDIR)/kdb5_err.c
199 $(POST_PROCESS_O)

201 # we need this in libgss so we don't have to link against mech_krb5
202 pics/kdc5_err.o: $(KRB5ETDIR)/kdc5_err.c
203 $(COMPILE.c) -o $@ $(KRB5ETDIR)/kdc5_err.c
204 $(POST_PROCESS_O)

206 # we need this in libgss so we don't have to link against mech_krb5
207 pics/kpasswd_strings.o: $(KRB5ETDIR)/kpasswd_strings.c
208 $(COMPILE.c) -o $@ $(KRB5ETDIR)/kpasswd_strings.c
209 $(POST_PROCESS_O)

211 # we need this in libgss so we don't have to link against mech_krb5
212 pics/krb5_err.o: $(KRB5ETDIR)/krb5_err.c
213 $(COMPILE.c) -o $@ $(KRB5ETDIR)/krb5_err.c
214 $(POST_PROCESS_O)

216 # we need this in libgss so we don't have to link against mech_krb5
217 pics/kv5m_err.o: $(KRB5ETDIR)/kv5m_err.c
218 $(COMPILE.c) -o $@ $(KRB5ETDIR)/kv5m_err.c
219 $(POST_PROCESS_O)

221 # we need this in libgss so we don't have to link against mech_krb5
222 pics/prof_err.o: $(KRB5ETDIR)/prof_err.c
223 $(COMPILE.c) -o $@ $(KRB5ETDIR)/prof_err.c
224 $(POST_PROCESS_O)

226 # we need this in libgss so we don't have to link against mech_krb5
227 pics/pty_err.o: $(KRB5ETDIR)/pty_err.c
228 $(COMPILE.c) -o $@ $(KRB5ETDIR)/pty_err.c
229 $(POST_PROCESS_O)

231 # we need this in libgss so we don't have to link against mech_krb5
232 pics/ss_err.o: $(KRB5ETDIR)/ss_err.c
233 $(COMPILE.c) -o $@ $(KRB5ETDIR)/ss_err.c
234 $(POST_PROCESS_O)

236 # gen_oids.c is kept in the kernel since the OIDs declared in them are
237 # used by rpcsec module
238 pics/gen_oids.o: $(SRC)/uts/common/gssapi/gen_oids.c
239 $(COMPILE.c) -o $@ $(SRC)/uts/common/gssapi/gen_oids.c
240 $(POST_PROCESS_O)

242 # include library targets
243 include ../Makefile.targ

```

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

1

```
*****
85765 Sat Aug 3 15:26:17 2013
new/usr/src/tools/scripts/nightly.sh
3971 remove EXPORT_RELEASE_BUILD
*****
_____unchanged_portion_omitted_____

2397 #
2398 #       Decide whether to bringover to the codemgr workspace
2399 #
2400 if [ "$n_FLAG" = "n" ]; then
2401     PARENT_SCM_TYPE=$(parent_wstype)

2403     if [[ $SCM_TYPE != none && $SCM_TYPE != $PARENT_SCM_TYPE ]]; then
2404         echo "cannot bringover from $PARENT_SCM_TYPE to $SCM_TYPE, " \
2405             "quitting at `date`." | tee -a $mail_msg_file >> $LOGFILE
2406         exit 1
2407     fi

2409     run_hook PRE_BRINGOVER

2411     echo "\n==== bringover to $CODEMGR_WS at `date` ==== \n" >> $LOGFILE
2412     echo "\n==== BRINGOVER LOG ==== \n" >> $mail_msg_file

2414     eval "bringover_${PARENT_SCM_TYPE}" 2>&1 |
2415         tee -a $mail_msg_file >> $LOGFILE

2417     if [ -f $TMPDIR/bringover_failed ]; then
2418         rm -f $TMPDIR/bringover_failed
2419         build_ok=n
2420         echo "trouble with bringover, quitting at `date`." |
2421             tee -a $mail_msg_file >> $LOGFILE
2422         exit 1
2423     fi

2425     #
2426     # It's possible that we used the bringover above to create
2427     # $CODEMGR_WS.  If so, then SCM_TYPE was previously "none,"
2428     # but should now be the same as $BRINGOVER_WS.
2429     #
2430     [[ $SCM_TYPE = none ]] && SCM_TYPE=$PARENT_SCM_TYPE

2432     run_hook POST_BRINGOVER

2434     #
2435     # Possible transition from pre-split workspace to split
2436     # workspace.  See if the bringover changed anything.
2437     #
2438     CLOSED_IS_PRESENT="$orig_closed_is_present"
2439     check_closed_tree

2441 else
2442     echo "\n==== No bringover to $CODEMGR_WS ==== \n" >> $LOGFILE
2443 fi

2445 if [[ "$O_FLAG" = y && "$CLOSED_IS_PRESENT" != "yes" ]]; then
2446     build_ok=n
2447     echo "OpenSolaris binary deliverables need usr/closed." \
2448         | tee -a "$mail_msg_file" >> $LOGFILE
2449     exit 1
2450 fi

2452 # Safeguards
2453 [[ -v CODEMGR_WS ]] || fatal_error "Error: Variable CODEMGR_WS not set."
2454 [[ -d "${CODEMGR_WS}" ]] || fatal_error "Error: ${CODEMGR_WS} is not a directory
2455 [[ -f "${CODEMGR_WS}/usr/src/Makefile" ]] || fatal_error "Error: ${CODEMGR_WS}/u
```

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

2

```
2457 echo "\n==== Build environment ==== \n" | tee -a $build_environ_file >> $LOGFILE

2459 # System
2460 whence uname | tee -a $build_environ_file >> $LOGFILE
2461 uname -a 2>&1 | tee -a $build_environ_file >> $LOGFILE
2462 echo | tee -a $build_environ_file >> $LOGFILE

2464 # make
2465 whence $MAKE | tee -a $build_environ_file >> $LOGFILE
2466 $MAKE -v | tee -a $build_environ_file >> $LOGFILE
2467 echo "number of concurrent jobs = $DMAKE_MAX_JOBS" |
2468     tee -a $build_environ_file >> $LOGFILE

2470 #
2471 # Report the compiler versions.
2472 #

2474 if [[ ! -f $SRC/Makefile ]]; then
2475     build_ok=n
2476     echo "\nUnable to find `Makefile` in $SRC." | \
2477         tee -a $build_environ_file >> $LOGFILE
2478     exit 1
2479 fi

2481 ( cd $SRC
2482   for target in cc-version cc64-version java-version; do
2483     echo
2484     #
2485     # Put statefile somewhere we know we can write to rather than trip
2486     # over a read-only $srcroot.
2487     #
2488     rm -f $TMPDIR/make-state
2489     export SRC
2490     if $MAKE -K $TMPDIR/make-state -e $target 2>/dev/null; then
2491         continue
2492     fi
2493     touch $TMPDIR/nocompiler
2494     done
2495     echo
2496 ) | tee -a $build_environ_file >> $LOGFILE

2498 if [ -f $TMPDIR/nocompiler ]; then
2499     rm -f $TMPDIR/nocompiler
2500     build_ok=n
2501     echo "Aborting due to missing compiler." |
2502         tee -a $build_environ_file >> $LOGFILE
2503     exit 1
2504 fi

2506 # as
2507 whence ld | tee -a $build_environ_file >> $LOGFILE
2508 as -V 2>&1 | head -1 | tee -a $build_environ_file >> $LOGFILE
2509 echo | tee -a $build_environ_file >> $LOGFILE

2511 # Check that we're running a capable link-editor
2512 whence ld | tee -a $build_environ_file >> $LOGFILE
2513 LDVER='ld -V 2>&1'
2514 echo $LDVER | tee -a $build_environ_file >> $LOGFILE
2515 LDVER=`echo $LDVER | sed -e "s/.*-1\.\{[0-9]*\}.*\/\1/"`
2516 if [ `expr $LDVER \< 422` -eq 1 ]; then
2517     echo "The link-editor needs to be at version 422 or higher to build" | \
2518         tee -a $build_environ_file >> $LOGFILE
2519     echo "the latest stuff.  Hope your build works." | \
2520         tee -a $build_environ_file >> $LOGFILE
2521 fi
```

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

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```

2523 #
2524 # Build and use the workspace's tools if requested
2525 #
2526 if [ [ "$t_FLAG" = "y" || "$O_FLAG" = y ] ]; then
2527     set_non_debug_build_flags
2528
2529     build_tools ${TOOLS_PROTO}
2530     if [ [ $? != 0 && "$t_FLAG" = y ] ]; then
2531         use_tools $TOOLS_PROTO
2532     fi
2533 fi
2534
2535 #
2536 # copy ihv proto area in addition to the build itself
2537 #
2538 if [ "$X_FLAG" = "y" ]; then
2539     copy_ihv_proto
2540 fi
2541
2542 if [ "$i_FLAG" = "y" -a "$SH_FLAG" = "y" ]; then
2543     echo "\n=== NOT Building base OS-Net source ===\n" | \
2544         tee -a $LOGFILE >> $mail_msg_file
2545 else
2546     # timestamp the start of the normal build; the findunref tool uses it.
2547     touch $SRC/.build.tstamp
2548
2549     normal_build
2550 fi
2551
2552 #
2553 # Generate the THIRDPARTYLICENSE files if needed. This is done after
2554 # the build, so that dynamically-created license files are there.
2555 # It's done before findunref to help identify license files that need
2556 # to be added to tools/opensolaris/license-list.
2557 #
2558 if [ "$O_FLAG" = y -a "$build_ok" = y ]; then
2559     echo "\n=== Generating THIRDPARTYLICENSE files ===\n" |
2560         tee -a "$mail_msg_file" >> "$LOGFILE"
2561
2562     if [ -d $ROOT/licenses/usr ]; then
2563         ( cd $ROOT/licenses ; \
2564             mktpl $SRC/pkg/license-list ) >> "$LOGFILE" 2>&1
2565         if (( $? != 0 )); then
2566             echo "Couldn't create THIRDPARTYLICENSE files" |
2567                 tee -a "$mail_msg_file" >> "$LOGFILE"
2568         fi
2569     else
2570         echo "No licenses found under $ROOT/licenses" |
2571             tee -a "$mail_msg_file" >> "$LOGFILE"
2572     fi
2573 fi
2574
2575 ORIG_SRC=$SRC
2576 BINARCHIVE=${CODEMGR_WS}/bin-${MACH}.cpio.Z
2577
2578 if [ "$SE_FLAG" = "y" -o "$SD_FLAG" = "y" -o "$SH_FLAG" = "y" ]; then
2579     save_binaries
2580 fi
2581
2582 # EXPORT_SRC comes after CRYPT_SRC since a domestic build will need
2583 # $SRC pointing to the export_source usr/src.
2584
2585 if [ "$SE_FLAG" = "y" -o "$SD_FLAG" = "y" -o "$SH_FLAG" = "y" ]; then
2586     if [ "$SD_FLAG" = "y" -a $build_ok = y ]; then

```

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

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```

2588         set_up_source_build ${CODEMGR_WS} ${CRYPT_SRC} CRYPT_SRC
2589     fi
2590
2591     if [ $build_ok = y ]; then
2592         set_up_source_build ${CODEMGR_WS} ${EXPORT_SRC} EXPORT_SRC
2593     fi
2594 fi
2595
2596 if [ "$SD_FLAG" = "y" -a $build_ok = y ]; then
2597     # drop the crypt files in place.
2598     cd ${EXPORT_SRC}
2599     echo "\nextracting crypt_files.cpio.Z onto export_source.\n" \
2600         >> $LOGFILE
2601     zcat ${CODEMGR_WS}/crypt_files.cpio.Z | \
2602         cpio -idmucvB 2>/dev/null >> $LOGFILE
2603     if [ "$?" = "0" ]; then
2604         echo "\n=== DOMESTIC extraction succeeded ===\n" \
2605             >> $mail_msg_file
2606     else
2607         echo "\n=== DOMESTIC extraction failed ===\n" \
2608             >> $mail_msg_file
2609     fi
2610
2611 fi
2612
2613 if [ "$SO_FLAG" = "y" -a "$build_ok" = y ]; then
2614     #
2615     # Copy the open sources into their own tree.
2616     # If copy_source fails, it will have already generated an
2617     # error message and set build_ok=n, so we don't need to worry
2618     # about that here.
2619     #
2620     copy_source $CODEMGR_WS $OPEN_SRCDIR OPEN_SOURCE usr/src
2621 fi
2622
2623 if [ "$SO_FLAG" = "y" -a "$build_ok" = y ]; then
2624     SRC=$OPEN_SRCDIR/usr/src
2625     export CLOSED_IS_PRESENT=no
2626 fi
2627
2628 if is_source_build && [ $build_ok = y ]; then
2629     # remove proto area(s) here, since we don't clobber
2630     # rm -rf `allprotos`
2631     if [ "$t_FLAG" = "y" ]; then
2632         set_non_debug_build_flags
2633         ORIG_TOOLS=$TOOLS
2634         #
2635         # SRC was set earlier to point to the source build
2636         # source tree (e.g., $EXPORT_SRC).
2637         #
2638         TOOLS=${SRC}/tools
2639         TOOLS_PROTO=${TOOLS}/${TOOLS_PROTO_REL}; export TOOLS_PROTO
2640         build_tools ${TOOLS_PROTO}
2641         if [ [ $? != 0 ] ]; then
2642             use_tools ${TOOLS_PROTO}
2643         fi
2644     fi
2645
2646     export EXPORT_RELEASE_BUILD ; EXPORT_RELEASE_BUILD=#
2647     normal_build
2648 fi
2649 #
2650 # There are several checks that need to look at the proto area, but
2651 # they only need to look at one, and they don't care whether it's
2652 # DEBUG or non-DEBUG.

```

```

2653 #
2654 if [ [ "$MULTI_PROTO" = yes && "$D_FLAG" = n ] ]; then
2655     checkroot=$ROOT-nd
2656 else
2657     checkroot=$ROOT
2658 fi

2660 if [ "$build_ok" = "y" ]; then
2661     echo "\n==== Creating protolist system file at `date` ==== \
2662         >> $LOGFILE
2663     protolist $checkroot > $ATLOG/proto_list_${MACH}
2664     echo "==== protolist system file created at `date` ==== \
2665         >> $LOGFILE

2667     if [ "$N_FLAG" != "y" ]; then

2669         E1=
2670         f1=
2671         if [ -d "$SRC/pkgdefs" ]; then
2672             f1="$SRC/pkgdefs/etc/exception_list_${MACH}"
2673             if [ "$X_FLAG" = "y" ]; then
2674                 f1="$f1 $IA32_IHV_WS/usr/src/pkgdefs/etc/excepti
2675             fi
2676         fi

2678         for f in $f1; do
2679             if [ -f "$f" ]; then
2680                 E1="$E1 -e $f"
2681             fi
2682         done

2684         E2=
2685         f2=
2686         if [ -d "$SRC/pkg" ]; then
2687             f2="$f2 exceptions/packaging"
2688         fi

2690         for f in $f2; do
2691             if [ -f "$f" ]; then
2692                 E2="$E2 -e $f"
2693             fi
2694         done

2696         if [ -f "$REF_PROTO_LIST" ]; then
2697             #
2698             # For builds that copy the IHV proto area (-X), add the
2699             # IHV proto list to the reference list if the reference
2700             # was built without -X.
2701             #
2702             # For builds that don't copy the IHV proto area, add the
2703             # IHV proto list to the build's proto list if the
2704             # reference was built with -X.
2705             #
2706             # Use the presence of the first file entry of the cached
2707             # IHV proto list in the reference list to determine
2708             # whether it was built with -X or not.
2709             #
2710             IHV_REF_PROTO_LIST=$SRC/pkg/proto_list_ihv_${MACH}
2711             grepfor=$(nawk ' $1 == "f" { print $2; exit }' \
2712                 $IHV_REF_PROTO_LIST 2> /dev/null)
2713             if [ $? = 0 -a -n "$grepfor" ]; then
2714                 if [ "$X_FLAG" = "y" ]; then
2715                     grep -w "$grepfor" \
2716                         $REF_PROTO_LIST > /dev/null
2717                 if [ ! "$?" = "0" ]; then
2718                     REF_IHV_PROTO="-d $IHV_REF_PROTO

```

```

2719             fi
2720             else
2721                 grep -w "$grepfor" \
2722                     $REF_PROTO_LIST > /dev/null
2723                 if [ "$?" = "0" ]; then
2724                     IHV_PROTO_LIST="$IHV_REF_PROTO_L
2725                 fi
2726             fi
2727         fi
2728     fi
2729 fi

2731 if [ "$N_FLAG" != "y" -a -f $SRC/pkgdefs/Makefile ]; then
2732     echo "\n==== Impact on SVr4 packages ==== \
2733         >> $mail_msg_file
2734     #
2735     # Compare the build's proto list with current package
2736     # definitions to audit the quality of package
2737     # definitions and makefile install targets. Use the
2738     # current exception list.
2739     #
2740     PKGDEFS_LIST=""
2741     for d in $absrkdirs; do
2742         if [ -d $d/pkgdefs ]; then
2743             PKGDEFS_LIST="$PKGDEFS_LIST -d $d/pkgdefs"
2744         fi
2745     done
2746     if [ "$X_FLAG" = "y" -a \
2747         -d $IA32_IHV_WS/usr/src/pkgdefs ]; then
2748         PKGDEFS_LIST="$PKGDEFS_LIST -d $IA32_IHV_WS/usr/src/pkgd
2749     fi
2750     $PROTOCMPTRSE \
2751         "Files missing from the proto area:" \
2752         "Files missing from packages:" \
2753         "Inconsistencies between pkgdefs and proto area:" \
2754         ${E1} \
2755         ${PKGDEFS_LIST} \
2756         $ATLOG/proto_list_${MACH} \
2757         >> $mail_msg_file

2759 fi

2759 if [ "$N_FLAG" != "y" -a -d $SRC/pkg ]; then
2760     echo "\n==== Validating manifests against proto area ==== \
2761         >> $mail_msg_file
2762     ( cd $SRC/pkg ; $MAKE -e protocmp ROOT="$checkroot" ) \
2763         >> $mail_msg_file

2765 fi

2767 if [ "$N_FLAG" != "y" -a -f "$REF_PROTO_LIST" ]; then
2768     echo "\n==== Impact on proto area ==== \
2769         >> $mail_msg_file
2770     if [ -n "$E2" ]; then
2771         ELIST=$E2
2772     else
2773         ELIST=$E1
2774     fi
2775     $PROTOCMPTRSE \
2776         "Files in yesterday's proto area, but not today's:" \
2777         "Files in today's proto area, but not yesterday's:" \
2778         "Files that changed between yesterday and today:" \
2779         ${ELIST} \
2780         -d $REF_PROTO_LIST \
2781         $REF_IHV_PROTO \
2782         $ATLOG/proto_list_${MACH} \
2783         $IHV_PROTO_LIST \
2784         >> $mail_msg_file

2784 fi

```

```

2785 fi

2787 if [ "$U_FLAG" = "y" -a "$build_ok" = "y" ]; then
2788     staffer cp $ATLOG/proto_list_${MACH} \
2789         $PARENT_WS/usr/src/proto_list_${MACH}
2790 fi

2792 # Update parent proto area if necessary. This is done now
2793 # so that the proto area has either DEBUG or non-DEBUG kernels.
2794 # Note that this clears out the lock file, so we can dispense with
2795 # the variable now.
2796 if [ "$U_FLAG" = "y" -a "$build_ok" = "y" ]; then
2797     echo "\n=== Copying proto area to $NIGHTLY_PARENT_ROOT ===\n" | \
2798         tee -a $LOGFILE >> $mail_msg_file
2799     rm -rf $NIGHTLY_PARENT_ROOT/*
2800     unset Ulockfile
2801     mkdir -p $NIGHTLY_PARENT_ROOT
2802     if [[ "$MULTI_PROTO" = no || "$D_FLAG" = y ]]; then
2803         ( cd $ROOT; tar cf - . |
2804           ( cd $NIGHTLY_PARENT_ROOT; umask 0; tar xpf - ) ) 2>&1 |
2805         tee -a $mail_msg_file >> $LOGFILE
2806     fi
2807     if [[ "$MULTI_PROTO" = yes && "$F_FLAG" = n ]]; then
2808         rm -rf $NIGHTLY_PARENT_ROOT-nd/*
2809         mkdir -p $NIGHTLY_PARENT_ROOT-nd
2810         cd $ROOT-nd
2811         ( tar cf - . |
2812           ( cd $NIGHTLY_PARENT_ROOT-nd; umask 0; tar xpf - ) ) 2>&1 |
2813         tee -a $mail_msg_file >> $LOGFILE
2814     fi
2815     if [ -n "${NIGHTLY_PARENT_TOOLS_ROOT}" ]; then
2816         echo "\n=== Copying tools proto area to $NIGHTLY_PARENT_TOOLS_R
2817             tee -a $LOGFILE >> $mail_msg_file
2818             rm -rf $NIGHTLY_PARENT_TOOLS_ROOT/*
2819             mkdir -p $NIGHTLY_PARENT_TOOLS_ROOT
2820             if [[ "$MULTI_PROTO" = no || "$D_FLAG" = y ]]; then
2821                 ( cd $TOOLS_PROTO; tar cf - . |
2822                   ( cd $NIGHTLY_PARENT_TOOLS_ROOT;
2823                     umask 0; tar xpf - ) ) 2>&1 |
2824                 tee -a $mail_msg_file >> $LOGFILE
2825             fi
2826         fi
2827 fi

2829 #
2830 # ELF verification: ABI (-A) and runtime (-r) checks
2831 #
2832 if [[ ($build_ok = y) && ( ($A_FLAG = y) || ($r_FLAG = y) ) ]]; then
2833     # Directory ELF-data.$MACH holds the files produced by these tests.
2834     elf_ddir=$SRC/ELF-data.$MACH

2836     # If there is a previous ELF-data backup directory, remove it. Then,
2837     # rotate current ELF-data directory into its place and create a new
2838     # empty directory
2839     rm -rf $elf_ddir.ref
2840     if [[ -d $elf_ddir ]]; then
2841         mv $elf_ddir $elf_ddir.ref
2842     fi
2843     mkdir -p $elf_ddir

2845     # Call find_elf to produce a list of the ELF objects in the proto area.
2846     # This list is passed to check_rtime and interface_check, preventing
2847     # them from separately calling find_elf to do the same work twice.
2848     find_elf -fr $checkroot > $elf_ddir/object_list

2850     if [[ $A_FLAG = y ]]; then

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2851     echo "\n=== Check versioning and ABI information ===\n" | \
2852         tee -a $LOGFILE >> $mail_msg_file

2854     # Produce interface description for the proto. Report errors.
2855     interface_check -o -w $elf_ddir -f object_list \
2856         -i interface -E interface.err
2857     if [[ -s $elf_ddir/interface.err ]]; then
2858         tee -a $LOGFILE < $elf_ddir/interface.err \
2859             >> $mail_msg_file
2860     fi

2862     # If ELF_DATA_BASELINE_DIR is defined, compare the new interface
2863     # description file to that from the baseline gate. Issue a
2864     # warning if the baseline is not present, and keep going.
2865     if [[ "$ELF_DATA_BASELINE_DIR" != '' ]]; then
2866         base_ifile="$ELF_DATA_BASELINE_DIR/interface"

2868         echo "\n=== Compare versioning and ABI information" \
2869             "to baseline ===\n" | \
2870             tee -a $LOGFILE >> $mail_msg_file
2871         echo "Baseline: $base_ifile\n" >> $LOGFILE

2873         if [[ -f $base_ifile ]]; then
2874             interface_cmp -d -o $base_ifile \
2875                 $elf_ddir/interface > $elf_ddir/interface.cm
2876             if [[ -s $elf_ddir/interface.cm ]]; then
2877                 echo | tee -a $LOGFILE >> $mail_msg_file
2878                 tee -a $LOGFILE < \
2879                     $elf_ddir/interface.cm \
2880                     >> $mail_msg_file
2881             fi
2882         else
2883             echo "baseline not available. comparison" \
2884                 "skipped" | \
2885                 tee -a $LOGFILE >> $mail_msg_file
2886         fi

2888     fi
2889 fi

2891 if [[ $r_FLAG = y ]]; then
2892     echo "\n=== Check ELF runtime attributes ===\n" | \
2893         tee -a $LOGFILE >> $mail_msg_file

2895     # If we're doing a DEBUG build the proto area will be left
2896     # with debuggable objects, thus don't assert -s.
2897     if [[ $D_FLAG = y ]]; then
2898         rtime_sflag=""
2899     else
2900         rtime_sflag="-s"
2901     fi
2902     check_rtime -i -m -v $rtime_sflag -o -w $elf_ddir \
2903         -D object_list -f object_list -E runtime.err \
2904         -I runtime.attr.raw

2906     # check_rtime -I output needs to be sorted in order to
2907     # compare it to that from previous builds.
2908     sort $elf_ddir/runtime.attr.raw > $elf_ddir/runtime.attr
2909     rm $elf_ddir/runtime.attr.raw

2911     # Report errors
2912     if [[ -s $elf_ddir/runtime.err ]]; then
2913         tee -a $LOGFILE < $elf_ddir/runtime.err \
2914             >> $mail_msg_file
2915     fi

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2917 # If there is an ELF-data directory from a previous build,
2918 # then diff the attr files. These files contain information
2919 # about dependencies, versioning, and runpaths. There is some
2920 # overlap with the ABI checking done above, but this also
2921 # flushes out non-ABI interface differences along with the
2922 # other information.
2923 echo "\n==== Diff ELF runtime attributes" \
2924 "(since last build) ====\n" | \
2925 tee -a $LOGFILE >> $mail_msg_file

2927 if [[ -f $elf_ddir.ref/runtime.attr ]]; then
2928     diff $elf_ddir.ref/runtime.attr \
2929         $elf_ddir/runtime.attr \
2930         >> $mail_msg_file
2931 fi

2934 # If -u set, copy contents of ELF-data.$MACH to the parent workspace.
2935 if [[ "$_FLAG" = "y" ]]; then
2936     p_elf_ddir=$PARENT_WS/usr/src/ELF-data.$MACH

2938     # If parent lacks the ELF-data.$MACH directory, create it
2939     if [[ ! -d $p_elf_ddir ]]; then
2940         staffer mkdir -p $p_elf_ddir
2941     fi

2943     # These files are used asynchronously by other builds for ABI
2944     # verification, as above for the -A option. As such, we require
2945     # the file replacement to be atomic. Copy the data to a temp
2946     # file in the same filesystem and then rename into place.
2947     (
2948         cd $elf_ddir
2949         for elf_dfile in *; do
2950             staffer cp $elf_dfile \
2951                 ${p_elf_ddir}/${elf_dfile}.new
2952             staffer mv -f ${p_elf_ddir}/${elf_dfile}.new \
2953                 ${p_elf_ddir}/${elf_dfile}
2954         done
2955     )
2956 fi

2959 # DEBUG lint of kernel begins

2961 if [ "$i_CMD_LINE_FLAG" = "n" -a "$l_FLAG" = "y" ]; then
2962     if [ "$LINTDIRS" = "" ]; then
2963         # LINTDIRS="$SRC/uts y $SRC/stand y $SRC/psm y"
2964         LINTDIRS="$SRC y"
2965     fi
2966     set LINTDIRS
2967     while [ $# -gt 0 ]; do
2968         dolint $1 $2; shift; shift
2969     done
2970 else
2971     echo "\n==== No '$MAKE lint' ====\n" >> $LOGFILE
2972 fi

2974 # "make check" begins

2976 if [ "$i_CMD_LINE_FLAG" = "n" -a "$C_FLAG" = "y" ]; then
2977     # remove old check.out
2978     rm -f $SRC/check.out

2980     rm -f $SRC/check-${MACH}.out
2981     cd $SRC
2982     $MAKE -ek check ROOT="$checkroot" 2>&1 | tee -a $SRC/check-${MACH}.out \

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2983         >> $LOGFILE
2984     echo "\n==== cstyle/hdrchk errors ====\n" >> $mail_msg_file

2986     grep ":" $SRC/check-${MACH}.out |
2987         egrep -v "Ignoring unknown host" | \
2988         sort | uniq >> $mail_msg_file
2989 else
2990     echo "\n==== No '$MAKE check' ====\n" >> $LOGFILE
2991 fi

2993 echo "\n==== Find core files ====\n" | \
2994     tee -a $LOGFILE >> $mail_msg_file

2996 find $absrcdirs -name core -a -type f -exec file {} \; | \
2997     tee -a $LOGFILE >> $mail_msg_file

2999 if [ "$f_FLAG" = "y" -a "$build_ok" = "y" ]; then
3000     echo "\n==== Diff unreferenced files (since last build) ====\n" \
3001         | tee -a $LOGFILE >> $mail_msg_file
3002     rm -f $SRC/unref-${MACH}.ref
3003     if [ -f $SRC/unref-${MACH}.out ]; then
3004         mv $SRC/unref-${MACH}.out $SRC/unref-${MACH}.ref
3005     fi

3007     findunref -S $SCM_TYPE -t $SRC/.build.tstamp -s usr $CODEMGR_WS \
3008         ${TOOLS}/findunref/exception_list 2>> $mail_msg_file | \
3009         sort > $SRC/unref-${MACH}.out

3011     if [ ! -f $SRC/unref-${MACH}.ref ]; then
3012         cp $SRC/unref-${MACH}.out $SRC/unref-${MACH}.ref
3013     fi

3015     diff $SRC/unref-${MACH}.ref $SRC/unref-${MACH}.out >> $mail_msg_file
3016 fi

3018 #
3019 # Generate the OpenSolaris deliverables if requested. Some of these
3020 # steps need to come after findunref and are commented below.
3021 #

3023 # If we are doing an OpenSolaris _source_ build (-S 0) then we do
3024 # not have usr/closed available to us to generate closedbins from,
3025 # so skip this part.
3026 if [ "$SO_FLAG" = "n" -a "$O_FLAG" = "y" -a "$build_ok" = "y" ]; then
3027     echo "\n==== Generating OpenSolaris tarballs ====\n" | \
3028         tee -a $mail_msg_file >> $LOGFILE

3030     cd $CODEMGR_WS

3032     #
3033     # This step grovels through the package manifests, so it
3034     # must come after findunref.
3035     #
3036     # We assume no DEBUG vs non-DEBUG package content variation
3037     # here; if that changes, then the "make all" in $SRC/pkg will
3038     # need to be moved into the conditionals and repeated for each
3039     # different build.
3040     #
3041     echo "Generating closed binaries tarball(s)..." >> $LOGFILE
3042     closed_basename=on-closed-bins
3043     if [ "$D_FLAG" = "y" ]; then
3044         bindrop "$closed_basename" >> $LOGFILE 2>&1
3045         if (( $? != 0 )); then
3046             echo "Couldn't create DEBUG closed binaries." |
3047                 tee -a $mail_msg_file >> $LOGFILE
3048             build_ok=n

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3049         fi
3050     fi
3051     if [ "$F_FLAG" = n ]; then
3052         bindrop -n "$closed_basename-nd" >> "$LOGFILE" 2>&1
3053         if (( $? != 0 )); then
3054             echo "Couldn't create non-DEBUG closed binaries." |
3055                 tee -a $mail_msg_file >> $LOGFILE
3056             build_ok=n
3057         fi
3058     fi

3060     echo "Generating README.opensolaris..." >> $LOGFILE
3061     cat $SRC/tools/opensolaris/README.opensolaris.tmpl | \
3062         mkreadme_osol $CODEMGR_WS/README.opensolaris >> $LOGFILE 2>&1
3063     if (( $? != 0 )); then
3064         echo "Couldn't create README.opensolaris." |
3065             tee -a $mail_msg_file >> $LOGFILE
3066         build_ok=n
3067     fi
3068 fi

3070 # Verify that the usual lists of files, such as exception lists,
3071 # contain only valid references to files.  If the build has failed,
3072 # then don't check the proto area.
3073 CHECK_PATHS=${CHECK_PATHS:-y}
3074 if [ "$CHECK_PATHS" = y -a "$N_FLAG" != y ]; then
3075     echo "\n==== Check lists of files ====\n" | tee -a $LOGFILE \
3076         >>$mail_msg_file
3077     arg=-b
3078     [ "$build_ok" = y ] && arg=
3079     checkpaths $arg $checkroot 2>&1 | tee -a $LOGFILE >>$mail_msg_file
3080 fi

3082 if [ "$M_FLAG" != "y" -a "$build_ok" = y ]; then
3083     echo "\n==== Impact on file permissions ====\n" \
3084         >> $mail_msg_file

3086     abspkgdefs=
3087     abspkg=
3088     for d in $abssrkdirs; do
3089         if [ -d "$d/pkgdefs" ]; then
3090             abspkgdefs="$abspkgdefs $d"
3091         fi
3092         if [ -d "$d/pkg" ]; then
3093             abspkg="$abspkg $d"
3094         fi
3095     done

3097     if [ -n "$abspkgdefs" ]; then
3098         pmodes -qvdP \
3099             'find $abspkgdefs -name pkginfo.tmpl -print -o \
3100             -name _del\* -prune | sed -e 's:/pkginfo.tmpl$::' | \
3101             sort -u' >> $mail_msg_file
3102     fi

3104     if [ -n "$abspkg" ]; then
3105         for d in "$abspkg"; do
3106             ( cd $d/pkg ; $MAKE -e pmodes ) >> $mail_msg_file
3107         done
3108     fi
3109 fi

3111 if [ "$w_FLAG" = "y" -a "$build_ok" = "y" ]; then
3112     if [[ "$MULTI_PROTO" = no || "$D_FLAG" = y ]]; then
3113         do_wsdiff DEBUG $ROOT.prev $ROOT
3114     fi

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```

3116         if [[ "$MULTI_PROTO" = yes && "$F_FLAG" = n ]]; then
3117             do_wsdiff non-DEBUG $ROOT-nd.prev $ROOT-nd
3118         fi
3119     fi

3121     END_DATE=`date`
3122     echo "==== Nightly $maketype build completed: $END_DATE ====" | \
3123         tee -a $LOGFILE >> $build_time_file

3125     typeset -i10 hours
3126     typeset -Z2 minutes
3127     typeset -Z2 seconds

3129     elapsed_time=SSECONDS
3130     ((hours = elapsed_time / 3600 ))
3131     ((minutes = elapsed_time / 60 % 60))
3132     ((seconds = elapsed_time % 60))

3134     echo "\n==== Total build time ====" | \
3135         tee -a $LOGFILE >> $build_time_file
3136     echo "\nreal    ${hours}:${minutes}:${seconds}" | \
3137         tee -a $LOGFILE >> $build_time_file

3139     if [ "$u_FLAG" = "y" -a "$f_FLAG" = "y" -a "$build_ok" = "y" ]; then
3140         staffer cp ${SRC}/unref-${MACH}.out $PARENT_WS/usr/src/

3142         #
3143         # Produce a master list of unreferenced files -- ideally, we'd
3144         # generate the master just once after all of the nightlies
3145         # have finished, but there's no simple way to know when that
3146         # will be.  Instead, we assume that we're the last nightly to
3147         # finish and merge all of the unref-${MACH}.out files in
3148         # $PARENT_WS/usr/src/.  If we are in fact the final ${MACH} to
3149         # finish, then this file will be the authoritative master
3150         # list.  Otherwise, another ${MACH}'s nightly will eventually
3151         # overwrite ours with its own master, but in the meantime our
3152         # temporary "master" will be no worse than any older master
3153         # which was already on the parent.
3154         #

3156         set -- $PARENT_WS/usr/src/unref-*.out
3157         cp "$1" ${TMPDIR}/unref.merge
3158         shift

3160         for unref; do
3161             comm -12 ${TMPDIR}/unref.merge "$unref" > ${TMPDIR}/unref.$$
3162             mv ${TMPDIR}/unref.$$ ${TMPDIR}/unref.merge
3163         done

3165         staffer cp ${TMPDIR}/unref.merge $PARENT_WS/usr/src/unrefmaster.out
3166     fi

3168     #
3169     # All done save for the sweeping up.
3170     # (whichever exit we hit here will trigger the "cleanup" trap which
3171     # optionally sends mail on completion).
3172     #
3173     if [ "$build_ok" = "y" ]; then
3174         exit 0
3175     fi
3176     exit 1

```