

new/usr/src/Makefile.master

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*****
35725 Thu Oct 4 22:48:33 2018
new/usr/src/Makefile.master
9868 unused cw translations should be removed
*****
1 #
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19 # CDDL HEADER END
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21 #
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31 #
32 #
33 #
34 # Makefile.master, global definitions for system source
35 #
36 ROOT= /proto
37 #
38 #
39 # Adjunct root, containing an additional proto area to be used for headers
40 # and libraries.
41 #
42 ADJUNCT_PROTO=
43 #
44 #
45 # Adjunct for building things that run on the build machine.
46 #
47 NATIVE_ADJUNCT= /usr
48 #
49 #
50 # RELEASE_BUILD should be cleared for final release builds.
51 # NOT_RELEASE_BUILD is exactly what the name implies.
52 #
53 # __GNUC toggles the building of ON components using gcc and related tools.
54 # Normally set to '#', set it to '' to do gcc build.
55 #
56 # The declaration POUND_SIGN is always '#'. This is needed to get around the
57 # make feature that '#' is always a comment delimiter, even when escaped or
58 # quoted. We use this macro expansion method to get POUND_SIGN rather than
59 # always breaking out a shell because the general case can cause a noticeable
60 # slowdown in build times when so many Makefiles include Makefile.master.
61 #
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62 # While the majority of users are expected to override the setting below
63 # with an env file (via nightly or bldenv), if you aren't building that way
64 # (ie, you're using "ws" or some other bootstrapping method) then you need
65 # this definition in order to avoid the subshell invocation mentioned above.
66 #
67 #
68 PRE_POUND= pre\#
69 POUND_SIGN= $(PRE_POUND:pre\%=%)
70 #
71 NOT_RELEASE_BUILD=
72 RELEASE_BUILD= $(POUND_SIGN)
73 $(RELEASE_BUILD)NOT_RELEASE_BUILD= $(POUND_SIGN)
74 PATCH_BUILD= $(POUND_SIGN)
75 #
76 # SPARC_BLD is '#' for an Intel build.
77 # INTEL_BLD is '#' for a Sparc build.
78 SPARC_BLD_1= $(MACH:i386=$(POUND_SIGN))
79 SPARC_BLD= $(SPARC_BLD_1:sparc=)
80 INTEL_BLD_1= $(MACH:sparc=$(POUND_SIGN))
81 INTEL_BLD= $(INTEL_BLD_1:i386=)
82 #
83 # The variables below control the compilers used during the build.
84 # There are a number of permutations.
85 #
86 # __GNUC and __SUNC control (and indicate) the primary compiler. Whichever
87 # one is not POUND_SIGN is the primary, with the other as the shadow. They
88 # may also be used to control entirely compiler-specific Makefile assignments.
89 # __GNUC and GCC are the default.
90 #
91 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
92 # There is no Sun C analogue.
93 #
94 # The following version-specific options are operative regardless of which
95 # compiler is primary, and control the versions of the given compilers to be
96 # used. They also allow compiler-version specific Makefile fragments.
97 #
98 #
99 __SUNC= $(POUND_SIGN)
100 $(__SUNC)__GNUC= $(POUND_SIGN)
101 __GNUC64= $(__GNUC)
102 #
103 # Allow build-time "configuration" to enable or disable some things.
104 # The default is POUND_SIGN, meaning "not enabled". If the environment
105 # passes in an override like ENABLE_SMB_PRINTING= (empty) that will
106 # uncomment things in the lower Makefiles to enable the feature.
107 ENABLE_SMB_PRINTING= $(POUND_SIGN)
108 #
109 # CLOSED is the root of the tree that contains source which isn't released
110 # as open source
111 CLOSED= $(SRC)/../closed
112 #
113 # BUILD_TOOLS is the root of all tools including compilers.
114 # ONBLD_TOOLS is the root of all the tools that are part of SUNWonbld.
115 #
116 BUILD_TOOLS= /ws/onnv-tools
117 ONBLD_TOOLS= $(BUILD_TOOLS)/onbld
118 #
119 # define runtime JAVA_HOME, primarily for cmd/pools/poold
120 JAVA_HOME= /usr/java
121 # define buildtime JAVA_ROOT
122 JAVA_ROOT= /usr/java
123 # Build uses java7 by default. Pass one the variables below set to empty
124 # string in the environment to override.
125 BLD_JAVA_6= $(POUND_SIGN)
126 BLD_JAVA_8= $(POUND_SIGN)
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128 GNUC_ROOT=      /opt/gcc/4.4.4
129 GCCLIBDIR=      $(GNUC_ROOT)/lib
130 GCCLIBDIR64=    $(GNUC_ROOT)/lib/$(MACH64)

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

134 RPCGEN=          /usr/bin/rpcgen
135 STABS=           $(ONBLD_TOOLS)/bin/$(MACH)/stabs
136 ELFXTRACT=       $(ONBLD_TOOLS)/bin/$(MACH)/elfextract
137 MBH_PATCH=       $(ONBLD_TOOLS)/bin/$(MACH)/mbh_patch
138 BTXILD=          $(ONBLD_TOOLS)/bin/$(MACH)/btxild
139 VTFONTCVT=       $(ONBLD_TOOLS)/bin/$(MACH)/vtfontcv
140 # echo(1) and true(1) are specified without absolute paths, so that the shell
141 # spawned by make(1) may use the built-in versions. This is minimally
142 # problematic, as the shell spawned by make(1) is known and under control, the
143 # only risk being if the shell falls back to $PATH.
144 #
145 # We specifically want an echo(1) that does interpolation of escape sequences,
146 # which ksh93, /bin/sh, and bash will all provide.
147 ECHO=             echo
148 TRUE=             true
149 INS=              $(ONBLD_TOOLS)/bin/$(MACH)/install
150 SYMLINK=          /usr/bin/ln -s
151 LN=               /usr/bin/ln
152 MKDIR=            /usr/bin/mkdir
153 CHMOD=            /usr/bin/chmod
154 MV=               /usr/bin/mv -f
155 RM=               /usr/bin/rm -f
156 CUT=              /usr/bin/cut
157 NM=               /usr/ccs/bin/nm
158 DIFF=             /usr/bin/diff
159 GREP=             /usr/bin/grep
160 EGREP=            /usr/bin/egrep
161 ELFWRAP=          /usr/bin/elfwrap
162 KSH93=            /usr/bin/ksh93
163 SED=              /usr/bin/sed
164 AWK=              /usr/bin/nawk
165 CP=               /usr/bin/cp -f
166 MCS=              /usr/ccs/bin/mcs
167 CAT=              /usr/bin/cat
168 ELFDUMP=          /usr/ccs/bin/elfdump
169 M4=               /usr/bin/m4
170 STRIP=            /usr/ccs/bin/strip
171 LEX=               /usr/ccs/bin/lex
172 FLEX=             /usr/bin/flex
173 YACC=             /usr/ccs/bin/yacc
174 CPP=              /usr/lib/cpp
175 ANSI_CPP=         $(GNUC_ROOT)/bin/cpp
176 JAVAC=            $(JAVA_ROOT)/bin/javac
177 JAVAH=            $(JAVA_ROOT)/bin/javah
178 JAVADOC=          $(JAVA_ROOT)/bin/javadoc
179 RMIC=             $(JAVA_ROOT)/bin/rmic
180 JAR=              $(JAVA_ROOT)/bin/jar
181 CTFCONVERT=       $(ONBLD_TOOLS)/bin/$(MACH)/ctfconvert
182 CTFMERGE=         $(ONBLD_TOOLS)/bin/$(MACH)/ctfmerge
183 CTFSTABS=         $(ONBLD_TOOLS)/bin/$(MACH)/ctfstabs
184 CTFSTRIP=         $(ONBLD_TOOLS)/bin/$(MACH)/ctfstrip
185 NDRGEN=           $(ONBLD_TOOLS)/bin/$(MACH)/ndrgen
186 GENOFFSETS=      $(ONBLD_TOOLS)/bin/genoffsets
187 XREF=             $(ONBLD_TOOLS)/bin/xref
188 FIND=             /usr/bin/find
189 PERL=             /usr/bin/perl
190 PERL_VERSION=     5.10.0
191 PERL_PKGVERS=     -510
192 PERL_ARCH =       i86pc-solaris-64int
193 $(SPARC_BLD)PERL_ARCH = sun4-solaris-64int

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194 PYTHON_VERSION= 2.7
195 PYTHON_PKGVERS= -27
196 PYTHON=          /usr/bin/python$(PYTHON_VERSION)
197 SORT=             /usr/bin/sort
198 TOUCH=            /usr/bin/touch
199 WC=               /usr/bin/wc
200 XARGS=            /usr/bin/xargs
201 ELFEDIT=          /usr/bin/elfedit
202 DTRACE=           /usr/sbin/dtrace -xnolib
203 UNIQ=             /usr/bin/uniq
204 TAR=              /usr/bin/tar
205 ASTBINDIR=        /usr/ast/bin
206 MSGCC=            $(ASTBINDIR)/msgcc
207 MSGFMT=           /usr/bin/msgfmt -s
208 LCDEF=            $(ONBLD_TOOLS)/bin/$(MACH)/localedef
209 TIC=              $(ONBLD_TOOLS)/bin/$(MACH)/tic
210 ZIC=              $(ONBLD_TOOLS)/bin/$(MACH)/zic
211 OPENSSSL=         /usr/bin/openssl

213 FILEMODE=         644
214 DIRMODE=          755

216 # Declare that nothing should be built in parallel.
217 # Individual Makefiles can use the .PARALLEL target to declare otherwise.
218 .NO_PARALLEL:

220 # For stylistic checks
221 #
222 # Note that the X and C checks are not used at this time and may need
223 # modification when they are actually used.
224 #
225 CSTYLE=           $(ONBLD_TOOLS)/bin/cstyle
226 CSTYLE_TAIL=      $(ONBLD_TOOLS)/bin/cstyle
227 HDRCHK=           $(ONBLD_TOOLS)/bin/hdrchk
228 HDRCHK_TAIL=      $(ONBLD_TOOLS)/bin/hdrchk
229 JSTYLE=           $(ONBLD_TOOLS)/bin/jstyle

231 DOT_H_CHECK=      \
232     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL); \
233     $(HDRCHK) $< $(HDRCHK_TAIL)

235 DOT_X_CHECK=      \
236     @$(ECHO) "checking $<"; $(RPCGEN) -C -h $< | $(CSTYLE) $(CSTYLE_TAIL); \
237     $(RPCGEN) -C -h $< | $(HDRCHK) $< $(HDRCHK_TAIL)

239 DOT_C_CHECK=      \
240     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL)

242 MANIFEST_CHECK=   \
243     @$(ECHO) "checking $<"; \
244     SVCCFG_DTD=$(SRC)/cmd/svc/dtd/service_bundle.dtd.1 \
245     SVCCFG_REPOSITORY=$(SRC)/cmd/svc/seed/global.db \
246     SVCCFG_CONFIGD_PATH=$(SRC)/cmd/svc/configd/svc.configd-native \
247     $(SRC)/cmd/svc/svccfg/svccfg-native validate $<

249 INS.file=         $(RM) $@; $(INS) -s -m $(FILEMODE) -f $(@D) $<
250 INS.dir=          $(INS) -s -d -m $(DIRMODE) $@
251 # installs and renames at once
252 #
253 INS.rename=       $(INS.file); $(MV) $(@D)/$(<F) $@

255 # install a link
256 INSLINKTARGET=    $<
257 INS.link=         $(RM) $@; $(LN) $(INSLINKTARGET) $@
258 INS.symlink=      $(RM) $@; $(SYMLINK) $(INSLINKTARGET) $@

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260 #
261 # Python bakes the mtime of the .py file into the compiled .pyc and
262 # rebuilds if the baked-in mtime != the mtime of the source file
263 # (rather than only if it's less than), thus when installing python
264 # files we must make certain to not adjust the mtime of the source
265 # (.py) file.
266 #
267 INS.pyfile=      $(RM) $@; $(SED) -e "ls:^\#!@PYTHON@:\#!$(PYTHON):" < $< > $@; $

269 # MACH must be set in the shell environment per uname -p on the build host
270 # More specific architecture variables should be set in lower makefiles.
271 #
272 # MACH64 is derived from MACH, and BUILD64 is set to '#' for
273 # architectures on which we do not build 64-bit versions.
274 # (There are no such architectures at the moment.)
275 #
276 # Set BUILD64=# in the environment to disable 64-bit amd64
277 # builds on i386 machines.

279 MACH64_1=        $(MACH:sparc=sparcv9)
280 MACH64=          $(MACH64_1:i386=amd64)

282 MACH32_1=        $(MACH:sparc=sparcv7)
283 MACH32=          $(MACH32_1:i386=i86)

285 sparc_BUILD64=
286 i386_BUILD64=
287 BUILD64=         $($ (MACH)_BUILD64)

289 #
290 # C compiler mode. Future compilers may change the default on us,
291 # so force extended ANSI mode globally. Lower level makefiles can
292 # override this by setting CCMODE.
293 #
294 CCMODE=          -Xa
295 CCMODE64=        -Xa

297 #
298 # C compiler verbose mode. This is so we can enable it globally,
299 # but turn it off in the lower level makefiles of things we cannot
300 # (or aren't going to) fix.
301 #
302 CCVERBOSE=       -v

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

308 # set this to the secret flag "-Wc,-Qiselect-regsym=0" to disable register
309 # symbols (used to detect conflicts between objects that use global registers)
310 # we disable this now for safety, and because genunix doesn't link with
311 # this feature (the v9 default) enabled.
312 #
313 # REGSYM is separate since the C++ driver syntax is different.
314 CCREGSYM=        -Wc,-Qiselect-regsym=0
315 CCCREGSYM=       -Qoption cg -Qiselect-regsym=0

317 # Prevent the removal of static symbols by the SPARC code generator (cg).
318 # The x86 code generator (ube) does not remove such symbols and as such
319 # using this workaround is not applicable for x86.
320 #
321 CCSTATICSYM=     -Wc,-Qassembler-ounrefsym=0
322 #
323 # generate 32-bit addresses in the v9 kernel. Saves memory.
324 CCABS32=         -Wc,-xcode=abs32
325 #

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326 # generate v9 code which tolerates callers using the v7 ABI, for the sake of
327 # system calls.
328 CC32BITCALLERS=  _gcc=-massume-32bit-callers

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

339 # One optimization the compiler might perform is to turn this:
340 #     #pragma weak foo
341 #     extern int foo;
342 #     if (&foo)
343 #         foo = 5;
344 # into
345 #     foo = 5;
346 # Since we do some of this (foo might be referenced in common kernel code
347 # but provided only for some cpu modules or platforms), we disable this
348 # optimization.
349 #
350 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
351 i386_CCUNBOUND  =
352 CCUNBOUND       = $($ (MACH)_CCUNBOUND)

354 #
355 # compiler '-xarch' flag. This is here to centralize it and make it
356 # overridable for testing.
357 sparc_XARCH=     -m32
358 sparcv9_XARCH=  -m64
359 i386_XARCH=      -m32
360 amd64_XARCH=     -m64 -Ui386 -U__i386

362 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
363 sparc_AS_XARCH=  -xarch=v8plus
364 sparcv9_AS_XARCH= -xarch=v9
365 i386_AS_XARCH=
366 amd64_AS_XARCH=  -xarch=amd64 -P -Ui386 -U__i386

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

383 SAVEARGS=         -Wu,-save_args
384 amd64_STAND_FLAGS += $(SAVEARGS)

386 STAND_FLAGS_32 = $($ (MACH)_STAND_FLAGS)
387 STAND_FLAGS_64 = $($ (MACH64)_STAND_FLAGS)

389 #
390 # disable the incremental linker
391 ILDOFF=           -xildoff

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392 #
393 XDEPEND=          -xdepend
393 XFFLAG=           -xF=%all
394 XESS=             -xs
395 XSTRCONST=        -xstrconst

397 #
398 # turn warnings into errors (C)
399 CERRWARN = -errtags=yes -errwarn=%all
400 CERRWARN += -erroff=E_EMPTY_TRANSLATION_UNIT
401 CERRWARN += -erroff=E_STATEMENT_NOT_REACHED

403 CERRWARN += _gcc=-Wno-missing-braces
404 CERRWARN += _gcc=-Wno-sign-compare
405 CERRWARN += _gcc=-Wno-unknown-pragmas
406 CERRWARN += _gcc=-Wno-unused-parameter
407 CERRWARN += _gcc=-Wno-missing-field-initializers

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

412 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
413 # -nd builds
414 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-unused
415 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-empty-body

417 #
418 # turn warnings into errors (C++)
419 CCERRWARN=         -xwe

421 # C standard.  Keep Studio flags until we get rid of lint.
422 CSTD_GNU89=        -xc99=%none
423 CSTD_GNU99=        -xc99=%all
424 CSTD=              $(CSTD_GNU89)
425 C99LMODE=         $(CSTD:-xc99%=-Xc99%)

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

435 sparc_ASFLAGS=     $(sparc_AS_XARCH)
436 sparcv9_ASFLAGS=   $(sparcv9_AS_XARCH)
437 i386_ASFLAGS=      $(i386_AS_XARCH)
438 amd64_ASFLAGS=     $(amd64_AS_XARCH)

440 #
441 sparc_COPTFLAG=     -xO3
442 sparcv9_COPTFLAG=  -xO3
443 i386_COPTFLAG=     -O
444 amd64_COPTFLAG=    -xO3

446 COPTFLAG= $(MACH)_COPTFLAG
447 COPTFLAG64= $(MACH64)_COPTFLAG

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

453 # Direct the Sun Studio compiler to use a static globalization prefix based on t
454 # name of the module rather than something unique. Otherwise, objects
455 # will not build deterministically, as subsequent compilations of identical
456 # source will yield objects that always look different.

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457 #
458 # In the same spirit, this will also remove the date from the N_OPT stab.
459 CGLOBALSTATIC= -W0,-xglobalstatic

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

465 #
466 # Default debug format for Sun Studio 11 is dwarf, so force it to
467 # generate stabs.
468 #
469 DEBUGFORMAT=     -xdebugformat=stabs

471 #
472 # Flags used to build in debug mode for ctf generation.  Bugs in the Devpro
473 # compilers currently prevent us from building with cc-emitted DWARF.
474 #
475 CTF_FLAGS_sparc = -g -Wc,-Qiselect-T1 $(CSTD) $(CNOGLOBAL) $(CDWARFSTR)
476 CTF_FLAGS_i386  = -g $(CSTD) $(CNOGLOBAL) $(CDWARFSTR)

478 CTF_FLAGS_sparcv9 = $(CTF_FLAGS_sparc)
479 CTF_FLAGS_amd64   = $(CTF_FLAGS_i386)

481 # Sun Studio produces broken userland code when saving arguments.
482 $(GNUMC)CTF_FLAGS_amd64 += $(SAVEARGS)

484 CTF_FLAGS_32      = $(CTF_FLAGS_$(MACH)) $(DEBUGFORMAT)
485 CTF_FLAGS_64      = $(CTF_FLAGS_$(MACH64)) $(DEBUGFORMAT)
486 CTF_FLAGS         = $(CTF_FLAGS_32)

488 #
489 # Flags used with genoffsets
490 #
491 GOFLAGS = $(CALLSYMS) $(CDWARFSTR)

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

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

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

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

510 #
511 # The Sun Studio 11 compiler has changed the behaviour of integer
512 # wrap arounds and so a flag is needed to use the legacy behaviour
513 # (without this flag panics/hangs could be exposed within the source).
514 #
515 sparc_IROPTFLAG      = -W2,-xwrap_int
516 sparcv9_IROPTFLAG    = -W2,-xwrap_int
517 i386_IROPTFLAG       =
518 amd64_IROPTFLAG      =

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

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

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

531 # dmake SOURCEDEBUG=yes ... enables source-level debugging information, and
532 # avoids stripping it.
533 SOURCEDEBUG          = $(POUND_SIGN)
534 SRCDBGBLD            = $(SOURCEDEBUG:yes=)

536 #
537 # These variables are intended ONLY for use by developers to safely pass extra
538 # flags to the compilers without unintentionally overriding Makefile-set
539 # flags. They should NEVER be set to any value in a Makefile.
540 #
541 # They come last in the associated FLAGS variable such that they can
542 # explicitly override things if necessary, there are gaps in this, but it's
543 # the best we can manage.
544 #
545 CUSERFLAGS           =
546 CUSERFLAGS64         = $(CUSERFLAGS)
547 CCUSERFLAGS          =
548 CCUSERFLAGS64       = $(CCUSERFLAGS)

550 CSOURCEDEBUGFLAGS    =
551 CCSOURCEDEBUGFLAGS   =
552 $(SRCDBGBLD)CSOURCEDEBUGFLAGS = -g -xs
553 $(SRCDBGBLD)CCSOURCEDEBUGFLAGS = -g -xs

555 CFLAGS=              $(COPTFLAG) $($MACH)_CFLAGS $(SPACEFLAG) $(CCMODE) \
556                      $(ILDOFF) $(CERRWARN) $(CSTD) $(CCUNBOUND) $(IROPTFLAG) \
557                      $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
558                      $(CUSERFLAGS)
559 CFLAGS64=            $(COPTFLAG64) $($MACH64)_CFLAGS $(SPACEFLAG64) $(CCMODE64) \
560                      $(ILDOFF) $(CERRWARN) $(CSTD) $(CCUNBOUND) $(IROPTFLAG64) \
561                      $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
562                      $(CUSERFLAGS64)
563 #
564 # Flags that are used to build parts of the code that are subsequently
565 # run on the build machine (also known as the NATIVE_BUILD).
566 #
567 NATIVE_CFLAGS=       $(COPTFLAG) $($NATIVE_MACH)_CFLAGS $(CCMODE) \
568                      $(ILDOFF) $(CERRWARN) $(CSTD) $($NATIVE_MACH)_CCUNBOUND) \
569                      $(IROPTFLAG) $(CGLOBALSTATIC) $(CCNOAUTOINLINE) \
570                      $(CSOURCEDEBUGFLAGS) $(CUSERFLAGS)

572 DTEXTDOM=-DTEXT_DOMAIN="\$(TEXT_DOMAIN)" # For messaging.
573 DTS_ERRNO=-D_TS_ERRNO
574 CPPFLAGS.first= # Please keep empty. Only lower makefiles should set this.
575 CPPFLAGS.master=$(DTEXTDOM) $(DTS_ERRNO) \
576                 $(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) $(ENVCPPFLAGS4) \
577                 $(ADJUNCT_PROTO:=-I%/usr/include)
578 CPPFLAGS.native=$(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) \
579                 $(ENVCPPFLAGS4) -I$(NATIVE_ADJUNCT)/include
580 CPPFLAGS=          $(CPPFLAGS.first) $(CPPFLAGS.master)
581 AS_CPPFLAGS=       $(CPPFLAGS.first) $(CPPFLAGS.master)
582 JAVAFLAGS=         -source 1.6 -target 1.6 -Xlint:deprecation,-options

584 #
585 # For source message catalogue
586 #
587 .SUFFIXES: $(SUFFIXES) .i .po
588 MSGROOT= $(ROOT)/catalog

```

```

589 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)
590 MSGDOMAINPOFILE = $(MSGDOMAIN)/$(POFILE)
591 DCMSGDOMAIN= $(MSGROOT)/LC_TIME/$(TEXT_DOMAIN)
592 DCMSGDOMAINPOFILE = $(DCMSGDOMAIN)/$(DCFILE:.dc=.po)

594 CLOBBERFILES += $(POFILE) $(POFILES)
595 COMPILE.cpp= $(CC) -E -C $(CFLAGS) $(CPPFLAGS)
596 XGETTEXT= /usr/bin/xgettext
597 XGETFLAGS= -c TRANSLATION_NOTE
598 GNUXGETTEXT= /usr/gnu/bin/xgettext
599 GNUXGETFLAGS= --add-comments=TRANSLATION_NOTE --keyword=_ \
600              --strict --no-location --omit-header
601 BUILD.po= $(XGETTEXT) $(XGETFLAGS) -d $(<F) $<i ;\
602           $(RM) $@ ;\
603           $(SED) "/^domain/d" < $(<F).po > $@ ;\
604           $(RM) $(<F).po $<i

606 #
607 # This is overwritten by local Makefile when PROG is a list.
608 #
609 POFILE= $(PROG).po

611 sparc_CCFLAGS=        -cg92 -compat=4 \
612                      -Qoption ccfe -messages=no%anachronism \
613                      $(CCERRWARN)
614 sparcv9_CCFLAGS=     $(sparcv9_XARCH) -dalign -compat=5 \
615                      -Qoption ccfe -messages=no%anachronism \
616                      -Qoption ccfe -features=no%conststrings \
617                      $(CCREGSYM) \
618                      $(CCERRWARN)
619 i386_CCFLAGS=         -compat=4 \
620                      -Qoption ccfe -messages=no%anachronism \
621                      -Qoption ccfe -features=no%conststrings \
622                      $(CCERRWARN)
623 amd64_CCFLAGS=       $(amd64_XARCH) -compat=5 \
624                      -Qoption ccfe -messages=no%anachronism \
625                      -Qoption ccfe -features=no%conststrings \
626                      $(CCERRWARN)

628 sparc_CCOPTFLAG=     -O
629 sparcv9_CCOPTFLAG=   -O
630 i386_CCOPTFLAG=      -O
631 amd64_CCOPTFLAG=     -O

633 CCOPTFLAG=           $($MACH)_CCOPTFLAG
634 CCOPTFLAG64=         $($MACH64)_CCOPTFLAG
635 CCFLAGS=             $(CCOPTFLAG) $($MACH)_CCFLAGS $(CCSOURCEDEBUGFLAGS) \
636                     $(CUSERFLAGS)
637 CCFLAGS64=           $(CCOPTFLAG64) $($MACH64)_CCFLAGS $(CCSOURCEDEBUGFLAGS) \
638                     $(CCUSERFLAGS64)

640 #
641 #
642 #
643 ELFWRAP_FLAGS =
644 ELFWRAP_FLAGS64 = -64

646 #
647 # Various mapfiles that are used throughout the build, and delivered to
648 # /usr/lib/ld.
649 #
650 MAPFILE.NED_i386 = $(SRC)/common/mapfiles/common/map.noexdata
651 MAPFILE.NED_sparc =
652 MAPFILE.NED = $(MAPFILE.NED_$(MACH))
653 MAPFILE.PGA = $(SRC)/common/mapfiles/common/map.pagealign
654 MAPFILE.NES = $(SRC)/common/mapfiles/common/map.noexstk

```

```

655 MAPFILE.FLT = $(SRC)/common/mapfiles/common/map.filter
656 MAPFILE.LEX = $(SRC)/common/mapfiles/common/map.lex.yy

658 #
659 # Generated mapfiles that are compiler specific, and used throughout the
660 # build. These mapfiles are not delivered in /usr/lib/ld.
661 #
662 MAPFILE.NGB_sparc= $(SRC)/common/mapfiles/gen/sparc_cc_map.noexeglobs
663 $(__GNUC64)MAPFILE.NGB_sparc= \
664 $(SRC)/common/mapfiles/gen/sparc_gcc_map.noexeglobs
665 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexeglobs
666 $(__GNUC64)MAPFILE.NGB_sparcv9= \
667 $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexeglobs
668 MAPFILE.NGB_i386= $(SRC)/common/mapfiles/gen/i386_cc_map.noexeglobs
669 $(__GNUC64)MAPFILE.NGB_i386= \
670 $(SRC)/common/mapfiles/gen/i386_gcc_map.noexeglobs
671 MAPFILE.NGB_amd64= $(SRC)/common/mapfiles/gen/amd64_cc_map.noexeglobs
672 $(__GNUC64)MAPFILE.NGB_amd64= \
673 $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexeglobs
674 MAPFILE.NGB = $(MAPFILE.NGB_$(MACH))

676 #
677 # A generic interface mapfile name, used by various dynamic objects to define
678 # the interfaces and interposers the object must export.
679 #
680 MAPFILE.INT = mapfile-intf

682 #
683 # LDLIBS32 and LDLIBS64 can be set in the environment to override the following
684 # assignments.
685 #
686 # These environment settings make sure that no libraries are searched outside
687 # of the local workspace proto area:
688 # LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
689 # LDLIBS64=-YP,$ROOT/lib:$MACH64:$ROOT/usr/lib:$MACH64
690 #
691 LDLIBS32 = $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
692 LDLIBS32 += $(ADJUNCT_PROTO:%=-L%/usr/lib -L%/lib)
693 LDLIBS.cmd = $(LDLIBS32)
694 LDLIBS.lib = $(LDLIBS32)

696 LDLIBS64 = $(ENVLDLIBS1:%=/%(MACH64)) \
697 $(ENVLDLIBS2:%=/%(MACH64)) \
698 $(ENVLDLIBS3:%=/%(MACH64))
699 LDLIBS64 += $(ADJUNCT_PROTO:%=-L%/usr/lib/%(MACH64) -L%/lib/%(MACH64))

701 #
702 # Define compilation macros.
703 #
704 COMPILER.c= $(CC) $(CFLAGS) $(CPPFLAGS) -c
705 COMPILER64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) -c
706 COMPILER.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) -c
707 COMPILER64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) -c
708 COMPILER.s= $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
709 COMPILER64.s= $(AS) $(ASFLAGS) $(MACH64)_AS_XARCH $(AS_CPPFLAGS)
710 COMPILER.d= $(DTRACE) -G -32
711 COMPILER64.d= $(DTRACE) -G -64
712 COMPILER.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
713 COMPILER64.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

715 CLASSPATH= .
716 COMPILER.java= $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

718 #
719 # Link time macros
720 #

```

```

721 CCNEEDED = -lC
722 CCEXTNEEDED = -lCrun -lCstd
723 $(__GNUC)CCNEEDED = -L$(GCCLIBDIR) -lstdc++ -lgcc_s
724 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

726 LINK.c= $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
727 LINK64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
728 NORUNPATH= -norunpath -nolib
729 LINK.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) $(NORUNPATH) \
730 $(LDFLAGS) $(CCNEEDED)
731 LINK64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
732 $(LDFLAGS) $(CCNEEDED)

734 #
735 # lint macros
736 #
737 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once
738 # ON is built with a version of lint that has the fix for 4484186.
739 #
740 ALWAYS_LINT_DEFS = -errtags=yes -s
741 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
742 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV
743 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME
744 ALWAYS_LINT_DEFS += $(C99LMODE)
745 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
746 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREAT_WITHOUT_EXCL
747 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
748 # XX64 -- really only needed for amd64 lint
749 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
750 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
751 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
752 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
753 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
754 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED
755 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
756 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

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

762 SECLEVEL= core
763 LINT.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS) $(CPPFLAGS) \
764 $(ALWAYS_LINT_DEFS)
765 LINT64.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS64) $(CPPFLAGS) \
766 $(ALWAYS_LINT_DEFS)
767 LINT.s= $(LINT.c)

769 # For some future builds, NATIVE_MACH and MACH might be different.
770 # Therefore, NATIVE_MACH needs to be redefined in the
771 # environment as 'uname -p' to override this macro.
772 #
773 # For now at least, we cross-compile amd64 on i386 machines.
774 NATIVE_MACH= $(MACH:amd64=i386)

776 # Define native compilation macros
777 #

779 # Base directory where compilers are loaded.
780 # Defined here so it can be overridden by developer.
781 #
782 SPRO_ROOT= $(BUILD_TOOLS)/SUNWspro
783 SPRO_ROOT= $(SPRO_ROOT)/SS12
784 GNU_ROOT= /usr

786 $(__GNUC)PRIMARY_CC= gcc4,$(GNU_ROOT)/bin/gcc,gnu

```

```

787 $(__SUNC)PRIMARY_CC=      studio12,$(SPRO_VROOT)/bin/cc,sun
788 $(__GNUCC)PRIMARY_CCC=    gcc4,$(GNUCC_ROOT)/bin/g++,gnu
789 $(__SUNC)PRIMARY_CCC=    studio12,$(SPRO_VROOT)/bin/CC,sun

791 CW_CC_COMPILERS=         $(PRIMARY_CC:%--primary %) $(SHADOW_CCS:%--shadow %)
792 CW_CCC_COMPILERS=        $(PRIMARY_CCC:%--primary %) $(SHADOW_CCCS:%--shadow %)

795 # Till SS12u1 formally becomes the NV CBE, LINT is hard
796 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/
797 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
798 # i386_LINT, amd64_LINT.
799 # Reset them when SS12u1 is rolled out.
800 #

802 # Specify platform compiler versions for languages
803 # that we use (currently only c and c++).
804 #
805 CW=                        $(ONBLD_TOOLS)/bin/$(MACH)/cw

807 BUILD_CC=                 $(CW) $(CW_CC_COMPILERS) --
808 BUILD_CCC=                 $(CW) -C $(CW_CCC_COMPILERS) --
809 BUILD_CPP=                 /usr/ccs/lib/cpp
810 BUILD_LD=                  /usr/ccs/bin/ld
811 BUILD_LINT=                $(SPRO_ROOT)/sunstudio12.1/bin/lint

813 $(MACH)_CC=               $(BUILD_CC)
814 $(MACH)_CCC=              $(BUILD_CCC)
815 $(MACH)_CPP=              $(BUILD_CPP)
816 $(MACH)_LD=               $(BUILD_LD)
817 $(MACH)_LINT=             $(BUILD_LINT)
818 $(MACH64)_CC=             $(BUILD_CC)
819 $(MACH64)_CCC=            $(BUILD_CCC)
820 $(MACH64)_CPP=            $(BUILD_CPP)
821 $(MACH64)_LD=             $(BUILD_LD)
822 $(MACH64)_LINT=           $(BUILD_LINT)

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

827 i386_AS=                  /usr/ccs/bin/as
828 $(__GNUCC)i386_AS=        $(ONBLD_TOOLS)/bin/$(MACH)/aw
829 amd64_AS=                 $(ONBLD_TOOLS)/bin/$(MACH)/aw

831 NATIVECC=                  $(MACH)_CC
832 NATIVECCC=                 $(MACH)_CCC
833 NATIVECPP=                 $(MACH)_CPP
834 NATIVEAS=                  $(MACH)_AS
835 NATIVELD=                  $(MACH)_LD
836 NATIVELINT=                $(MACH)_LINT

838 #
839 # Makefile.master.64 overrides these settings
840 #
841 CC=                         $(NATIVECC)
842 CCC=                        $(NATIVECCC)
843 CPP=                         $(NATIVECPP)
844 AS=                          $(NATIVEAS)
845 LD=                          $(NATIVELD)
846 LINT=                        $(NATIVELINT)

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

851 BDIRECT=                   -Bdirect
852 BDYNAMIC=                   -Bdynamic

```

```

853 BLOCAL=                   -Blocal
854 BNODIRECT=                 -Bnodirect
855 BREDUCE=                   -Breduce
856 BSTATIC=                   -Bstatic

858 ZDEFS=                     -zdefs
859 ZDIRECT=                   -zdirect
860 ZIGNORE=                   -zignore
861 ZINITFIRST=                -zinitfirst
862 ZINTERPOSE=                -zinterpose
863 ZLAZYLOAD=                 -zlazyload
864 ZLOADFLTR=                 -zloadfltr
865 ZMULDEFS=                  -zmuldefs
866 ZNODEFAULTLIB=            -znodefaultlib
867 ZNODEFS=                   -znodefs
868 ZNODELETE=                 -znodelete
869 ZNODLOPEN=                 -znodlopen
870 ZNODUMP=                   -znodump
871 ZNOLAZYLOAD=               -znolazyload
872 ZNOLDYNSYM=                -znoldynsym
873 ZNORELOC=                  -znoreloc
874 ZNOVERSION=                -znoversion
875 ZRECORD=                   -zrecord
876 ZREDLOCSYM=                -zredlocsymb
877 ZTEXT=                     -ztext
878 ZVERBOSE=                  -zverbose

880 GSHARED=                   -G
881 CCMT=                       -mt

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

886 sparc_C_PICFLAGS =        -K pic
887 sparcv9_C_PICFLAGS =      -K pic
888 i386_C_PICFLAGS =         -K pic
889 amd64_C_PICFLAGS =        -K pic
890 C_PICFLAGS =               $(MACH)_C_PICFLAGS
891 C_PICFLAGS64 =             $(MACH64)_C_PICFLAGS

893 sparc_C_BIGPICFLAGS =     -K PIC
894 sparcv9_C_BIGPICFLAGS =   -K PIC
895 i386_C_BIGPICFLAGS =      -K PIC
896 amd64_C_BIGPICFLAGS =     -K PIC
897 C_BIGPICFLAGS =           $(MACH)_C_BIGPICFLAGS
898 C_BIGPICFLAGS64 =         $(MACH64)_C_BIGPICFLAGS

900 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
901 sparc_CC_PICFLAGS =        -Kpic
902 sparcv9_CC_PICFLAGS =      -Kpic
903 i386_CC_PICFLAGS =         -Kpic
904 amd64_CC_PICFLAGS =        -Kpic
905 CC_PICFLAGS =              $(MACH)_CC_PICFLAGS
906 CC_PICFLAGS64 =            $(MACH64)_CC_PICFLAGS

908 AS_PICFLAGS=               $(C_PICFLAGS)
909 AS_BIGPICFLAGS=            $(C_BIGPICFLAGS)

911 #
912 # Default label for CTF sections
913 #
914 CTFCVTFLAGS=               -i -L VERSION

916 #
917 # Override to pass module-specific flags to ctmerge. Currently used only by
918 # krtld to turn on fuzzy matching, and source-level debugging to inhibit

```

```

919 # stripping.
920 #
921 CTFMRGFLAGS=

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

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

977 PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
978 $(RELEASE_BUILD)PROCESS_COMMENT= @?${MCS} -d -a $(RELEASE_CM)

980 STRIP_STABS= $(STRIP) -x $@
981 $(SRCDBGBLD)STRIP_STABS= :

983 POST_PROCESS_O=
984 POST_PROCESS_A=

```

```

985 POST_PROCESS_SO= $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
986 $(ELFSIGN_OBJECT)
987 POST_PROCESS= $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
988 $(ELFSIGN_OBJECT)

990 #
991 # chk4ubin is a tool that inspects a module for a symbol table
992 # ELF section size which can trigger an OBP bug on older platforms.
993 # This problem affects only specific sun4u bootable modules.
994 #
995 CHK4UBIN= $(ONBLD_TOOLS)/bin/$(MACH)/chk4ubin
996 CHK4UBINFLAGS=
997 CHK4UBINARY= $(CHK4UBIN) $(CHK4UBINFLAGS) $@

999 #
1000 # PKGARCHIVE specifies the default location where packages should be
1001 # placed if built.
1002 #
1003 $(RELEASE_BUILD)PKGARCHIVESUFFIX= -nd
1004 PKGARCHIVE=$(SRC)/../../packages/$(MACH)/nightly$(PKGARCHIVESUFFIX)

1006 #
1007 # The repositories will be created with these publisher settings. To
1008 # update an image to the resulting repositories, this must match the
1009 # publisher name provided to "pkg set-publisher."
1010 #
1011 PKGPUBLISHER_REDIST= on-nightly
1012 PKGPUBLISHER_NONREDIST= on-extra

1014 #   Default build rules which perform comment section post-processing.
1015 #
1016 .c:
1017     $(LINK.c) -o $@ $< $(LDLIBS)
1018     $(POST_PROCESS)
1019 .c.o:
1020     $(COMPILE.c) $(OUTPUT_OPTION) $< $(CTFCONVERT_HOOK)
1021     $(POST_PROCESS_O)
1022 .c.a:
1023     $(COMPILE.c) -o $% $<
1024     $(PROCESS_COMMENT) $%
1025     $(AR) $(ARFLAGS) $@ $%
1026     $(RM) $%
1027 .s.o:
1028     $(COMPILE.s) -o $@ $<
1029     $(POST_PROCESS_O)
1030 .s.a:
1031     $(COMPILE.s) -o $% $<
1032     $(PROCESS_COMMENT) $%
1033     $(AR) $(ARFLAGS) $@ $%
1034     $(RM) $%
1035 .cc:
1036     $(LINK.cc) -o $@ $< $(LDLIBS)
1037     $(POST_PROCESS)
1038 .cc.o:
1039     $(COMPILE.cc) $(OUTPUT_OPTION) $<
1040     $(POST_PROCESS_O)
1041 .cc.a:
1042     $(COMPILE.cc) -o $% $<
1043     $(AR) $(ARFLAGS) $@ $%
1044     $(PROCESS_COMMENT) $%
1045     $(RM) $%
1046 .y:
1047     $(YACC.y) $<
1048     $(LINK.c) -o $@ y.tab.c $(LDLIBS)
1049     $(POST_PROCESS)
1050     $(RM) y.tab.c

```



```

1051 .y.o:
1052     $(YACC.y) $<
1053     $(COMPILE.c) -o $@ y.tab.c $(CTFCONVERT_HOOK)
1054     $(POST_PROCESS_O)
1055     $(RM) y.tab.c
1056 .l:
1057     $(RM) $*.c
1058     $(LEX.l) $< > $*.c
1059     $(LINK.c) -o $@ $*.c -ll $(LDLIBS)
1060     $(POST_PROCESS)
1061     $(RM) $*.c
1062 .l.o:
1063     $(RM) $*.c
1064     $(LEX.l) $< > $*.c
1065     $(COMPILE.c) -o $@ $*.c $(CTFCONVERT_HOOK)
1066     $(POST_PROCESS_O)
1067     $(RM) $*.c

1069 .bin.o:
1070     $(COMPILE.b) -o $@ $<
1071     $(POST_PROCESS_O)

1073 .java.class:
1074     $(COMPILE.java) $<

1076 # Bourne and Korn shell script message catalog build rules.
1077 # We extract all gettext strings with sed(1) (being careful to permit
1078 # multiple gettext strings on the same line), weed out the dups, and
1079 # build the catalogue with awk(1).

1081 .sh.po .ksh.po:
1082     $(SED) -n -e "a" \
1083     -e "h" \
1084     -e "s/. *gettext *\([^\"]*\)*\.\.*/\1/p" \
1085     -e "x" \
1086     -e "s/\(.*\)gettext *\([^\"]*\)*\(.*/\1/2/" \
1087     -e "t a" \
1088     $< | sort -u | $(AWK) '{ print "msgid\t" $$0 "\nmsgstr" }' > $@

1090 #
1091 # Python and Perl executable and message catalog build rules.
1092 #
1093 .SUFFIXES: .pl .pm .py .pyc

1095 .pl:
1096     $(RM) $@;
1097     $(SED) -e "s@TEXT_DOMAIN@\"$(TEXT_DOMAIN)\"@" $< > $@;
1098     $(CHMOD) +x $@

1100 .py:
1101     $(RM) $@; $(SED) -e "1s:^\#@PYTHON@:\#!$(PYTHON):" < $< > $@; $(CHMOD)

1103 .py.pyc:
1104     $(RM) $@
1105     $(PYTHON) -mpy_compile $<
1106     @[ $(<)c = $@ ] || $(MV) $(<)c $@

1108 .py.po:
1109     $(GNUXGETTEXT) $(GNUXGETTEXT_FLAGS) -d $(<F:%.py=) $< ;

1111 .pl.po .pm.po:
1112     $(XGETTEXT) $(XGETTEXT_FLAGS) -d $(<F) $< ;
1113     $(RM) $@ ;
1114     $(SED) "/^domain/d" < $(<F).po > $@ ;
1115     $(RM) $(<F).po

```

```

1117 #
1118 # When using xgettext, we want messages to go to the default domain,
1119 # rather than the specified one. This special version of the
1120 # COMPILE.cpp macro effectively prevents expansion of TEXT_DOMAIN,
1121 # causing xgettext to put all messages into the default domain.
1122 #
1123 CPPFORPO=$(COMPILE.cpp:"$(TEXT_DOMAIN)"=TEXT_DOMAIN)

1125 .c.i:
1126     $(CPPFORPO) $< > $@

1128 .h.i:
1129     $(CPPFORPO) $< > $@

1131 .y.i:
1132     $(YACC) -d $<
1133     $(CPPFORPO) y.tab.c > $@
1134     $(RM) y.tab.c

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

1141 .c.po:
1142     $(CPPFORPO) $< > $<.i
1143     $(BUILD.po)

1145 .cc.po:
1146     $(CPPFORPO) $< > $<.i
1147     $(BUILD.po)

1149 .y.po:
1150     $(YACC) -d $<
1151     $(CPPFORPO) y.tab.c > $<.i
1152     $(BUILD.po)
1153     $(RM) y.tab.c

1155 .l.po:
1156     $(LEX) $<
1157     $(CPPFORPO) lex.yy.c > $<.i
1158     $(BUILD.po)
1159     $(RM) lex.yy.c

1161 #
1162 # Rules to perform stylistic checks
1163 #
1164 .SUFFIXES: .x .xml .check .xmlchk

1166 .h.check:
1167     $(DOT_H_CHECK)

1169 .x.check:
1170     $(DOT_X_CHECK)

1172 .xml.xmlchk:
1173     $(MANIFEST_CHECK)

1175 #
1176 # Include rules to render automated sccs get rules "safe".
1177 #
1178 include $(SRC)/Makefile.noget

```

new/usr/src/cmd/ldapcachemgr/Makefile

1

```
*****
2357 Thu Oct 4 22:48:34 2018
new/usr/src/cmd/ldapcachemgr/Makefile
9868 unused cw translations should be removed
*****
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.
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14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
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16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 PROG= ldap_cachemgr

28 MANIFEST= client.xml
29 SVCMETHOD= ldap-client

31 include ../Makefile.cmd

33 #
34 # To compile in the $mgr SLP support
35 # 1. add -DSLPL in to CPPFLAGS line
36 # 2. add cachemgr_discovery.o to the OBJS line
37 # 3. add -lslp in the LDLIBS line
38 #

40 ROOTLDAPLIB= $(ROOT)/usr/lib/ldap
41 ROOTLDAPPROG= $(PROG:%=$(ROOTLDAPLIB)/%)

43 ROOTMANIFESTDIR= $(ROOTSVCSNETWORKLDAP)

45 OBJS= cachemgr.o cachemgr_getldap.o cachemgr_parse.o cachemgr_change.o

47 SRCS= ${OBJS:%.o=%.c}

49 CPPFLAGS += -D_REENTRANT -DSUN_THREADS \
50 -I$(SRC)/lib/libslldap/common \
51 -I$(SRC)/lib/libldap5/include/ldap \
52 -I$(SRC)/lib/libc/port/gen

54 CERRWARN += -_gcc=-Wno-parentheses
55 CERRWARN += -_gcc=-Wno-switch
56 CERRWARN += -_gcc=-Wno-uninitialized

58 # Message files
59 POFILE= ldap_cachemgr.po
60 POFILES= ${OBJS:%.o=%.po}
```

new/usr/src/cmd/ldapcachemgr/Makefile

2

```
62 LINTOUT= lint.out

64 # TCOV_FLAG= -ql
65 # GPROF_FLAG= -xpg
66 # DEBUG_FLAG= -g

66 LDLIBS += -lumem -lslldap

68 # install macros and rule
69 #

71 .KEEP_STATE:

73 clean := TARGET= clean
74 clobber := TARGET= clobber

76 $(ROOTSVCMETHOD) := FILEMODE = 0555

78 all: $(PROG)

80 ${PROG}: ${OBJS}
81 ${LINK.c} ${OPT} -o $@ ${OBJS} ${LDLIBS}
82 ${POST_PROCESS}

84 $(ROOTLDAPLIB):
85 $(INS.dir)

87 $(ROOTLDAPLIB)/%: %
88 $(INS.file)

90 lint := LINTFLAGS=-x -b -u -h

92 lint:
93 $(LINT.c) ${SRCS} > $(LINTOUT) 2>&1

95 cstyle:
96 ${CSTYLE} ${SRCS}

98 install: all $(ROOTLDAPLIB) $(ROOTLDAPPROG) $(ROOTMANIFEST) $(ROOTSVCMETHOD)

100 check: $(CHKMANIFEST)

102 clean:
103 $(RM) ${OBJS} $(LINTOUT)

105 $(POFILE): $(POFILES)
106 $(RM) $@
107 cat $(POFILES) > $@

109 include $(SRC)/cmd/Makefile.targ
```

```

*****
2862 Thu Oct 4 22:48:34 2018
new/usr/src/cmd/nscd/Makefile
9868 unused cw translations should be removed
*****
1 #
2 # CDDL HEADER START
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16 # fields enclosed by brackets "[]" replaced with your own identifying
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18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1994, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 # Makefile for name service cache daemon
25 #

27 PROG=          nscd
28 MANIFEST=      name-service-cache.xml
29 SVCMETHOD=     svc-nscd

31 include ../Makefile.cmd

33 ROOTMANIFESTDIR= $(ROOTSVCSYSTEM)

35 OBJS=  server.o getpw.o getgr.o gethost.o getnode.o \
36  getether.o getrpc.o getproto.o getnet.o \
37  getbootp.o getauth.o getserv.o \
38  getnetmasks.o getprinter.o getproject.o \
39  getexec.o getprof.o getuser.o cache.o \
40  nscd_biggest.o nscd_wait.o \
41  nscd_init.o nscd_access.o nscd_cfgfile.o nscd_config.o \
42  nscd_dbimpl.o nscd_getentctx.o nscd_intaddr.o \
43  nscd_log.o nscd_nswconfig.o nscd_nswstate.o nscd_nswcfgst.o \
44  nscd_seqnum.o nscd_smfmonitor.o \
45  nscd_switch.o nscd_nswparse.o nscd_initf.o nscd_selfcred.o \
46  nscd_frontend.o nscd_admin.o nscd_door.o \
47  gettnrhtp.o gettnrhdb.o

49 CLOBBERFILES=  nscd

51 SRCS=  ${OBJS:%.o=%.c}

53 CFLAGS +=      $(CVERBOSE)
54 CPPFLAGS +=    -D_REENTRANT -DSUN_THREADS \
55  -I../lib/libc/port/gen -I../lib/libc/inc \
56  -I../lib/libldap/common
57 LINTFLAGS +=   -erroff=E_GLOBAL_COULD_BE_STATIC2
58 LINTFLAGS +=   -erroff=E_NAME_USED_NOT_DEF2
59 LINTFLAGS +=   -erroff=E_NAME_DEF_NOT_USED2

61 CERRWARN +=    -_gcc=-Wno-switch

```

```

62 CERRWARN +=    -_gcc=-Wno-uninitialized
63 CERRWARN +=    -_gcc=-Wno-parentheses
64 CERRWARN +=    -_gcc=-Wno-type-limits

66 # nscd interposes on many symbols, and must export others for its own dlsym()
67 # use, and dlsym() calls from libc. Itemizing the interfaces within a mapfile
68 # is error-prone, so establish the whole object as an interposer.
69 LDFLAGS +=     $(ZINTERPOSE)

71 # TCOV_FLAG=    -gl
72 # GPROF_FLAG=   -xpg
73 # DEBUG_FLAG=   -g

73 PROGLIBS=     $(LDLIBS) -lresolv -lnsl -lsocket -lumem -lscf -lavl

75 # install macros and rule
76 #
77 ROOTPROG=     ${ROOTUSRSBIN}/nscd

79 .KEEP_STATE:

81 all: $(PROG) $(NISPROG)

83 ${PROG}: ${OBJS}
84  ${LINK.c} ${OPT} -o $@ ${OBJS} ${PROGLIBS}
85  ${POST_PROCESS}

87 lint:
88  $(LINT.c) ${SRCS} ${PROGLIBS}

90 cstyle:
91  ${CSTYLE} ${SRCS}

93 install: all $(ROOTPROG) $(ROOTMANIFEST) $(ROOTSVCMETHOD)

95 check: $(CHKMANIFEST)

97 clean:
98  ${RM} ${OBJS}

100 ${ROOTUSRSBIN}/%: %
101  ${INS.file}

103 ${ROOTUSRLIB}/%: %
104  ${INS.file}

106 include ../Makefile.targ

```

```

*****
6493 Thu Oct 4 22:48:35 2018
new/usr/src/lib/libnsl/Makefile.com
9868 unused cw translations should be removed
*****
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2 # CDDL HEADER START
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17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 1997, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2018 Nexenta Systems, Inc. All rights reserved.
25 #
26 LIBRARY= libnsl.a
27 VERS= .1
28 #
29 #
30 # objects are listed by source directory
31 #
32 # common utility code used in more than one directory
33 COMMON= common.o daemon_utils.o
34 #
35 DES= des_crypt.o des_soft.o
36 #
37 DIAL= dial.o
38 #
39 IPSEC= algs.o
40 #
41 NETDIR= netdir.o
42 #
43 NSS= \
44 gethostbyname_r.o gethostent.o gethostent_r.o gethostent6.o gethostby_door.o \
45 getipnodeby_door.o getipnodeby.o getrpcnt.o getrpcnt_r.o inet_matchaddr.o \
46 netdir_inet.o netdir_inet_sundry.o \
47 parse.o getauthattr.o getprofattr.o getexecattr.o getuserattr.o getauser.o
48 #
49 NETSELECT= netselect.o
50 #
51 NSL= \
52 _conn_util.o _data2.o _errlst.o \
53 _utility.o t_accept.o t_alloc.o t_bind.o t_close.o \
54 t_connect.o t_error.o t_free.o t_getinfo.o t_getname.o \
55 t_getstate.o t_listen.o t_look.o t_open.o t_optmgmt.o \
56 t_rcv.o t_rcvconnect.o t_rcvdis.o t_rcvrel.o t_rcvudata.o \
57 t_rcvuderr.o t_snd.o t_snddis.o t_sndrel.o t_sndudata.o \
58 t_sndv.o t_sndreldata.o t_rcvv.o t_rcvreldata.o t_sysconf.o \
59 t_sndvudata.o t_rcvvudata.o t_sync.o t_unbind.o t_strerror.o \
60 xti_wrappers.o

```

```

62 WRAPPERS= \
63 tli_wrappers.o
64 #
65 RPC= \
66 auth_des.o auth_none.o auth_sys.o auth_time.o authdes_prot.o \
67 authsys_prot.o can_use_af.o \
68 clnt_bcast.o clnt_dg.o clnt_door.o clnt_generic.o clnt_perror.o \
69 clnt_raw.o clnt_simple.o clnt_vc.o fdsync.o getdname.o \
70 key_call.o key_prot.o mt_misc.o \
71 netname.o netnamer.o pmap_clnt.o pmap_prot.o \
72 rpc_callmsg.o rpc_comdata.o rpc_generic.o rpc_prot.o rpc_sel2poll.o \
73 rpc_soc.o rpc_td.o rpcb_clnt.o rpcb_prot.o \
74 rpcb_st_xdr.o rpcdname.o rpcsec_gss_if.o rtime_tli.o svc.o \
75 svc_auth.o svc_auth_loopb.o svc_auth_sys.o svc_dg.o \
76 svc_door.o svc_generic.o svc_raw.o svc_run.o svc_simple.o \
77 svc_vc.o svcauth_des.o svid_funcs.o ti_opts.o xdr.o \
78 xdr_array.o xdr_float.o xdr_mem.o xdr_rec.o xdr_refer.o \
79 xdr_sizeof.o xdr_stdio.o
80 #
81 SAF= checkver.o doconfig.o
82 #
83 YP= \
84 dbm.o yp_all.o yp_b_clnt.o yp_b_xdr.o yp_bind.o \
85 yp_enum.o yp_master.o yp_match.o yp_order.o yp_update.o \
86 yperr_string.o yp_xdr.o ypprot_err.o yppud.o \
87 yp_rsvd.o \
88 yppasswd_xdr.o
89 #
90 NIS_GEN= \
91 nis_xdr.o nis_subr.o nis_misc.o \
92 nis_misc_proc.o nis_sec_mechs.o
93 #
94 #
95 NIS= $(NIS_GEN)
96 #
97 KEY= publickey.o xcrypt.o gen_dhkeys.o
98 #
99 OBJECTS= $(COMMON) $(DES) $(DIAL) $(IPSEC) $(NETDIR) $(NSS) $(NETSELECT) \
100 $(NSL) $(WRAPPERS) $(RPC) $(SAF) $(YP) $(NIS) $(KEY)
101 #
102 # libnsl build rules
103 pics/%.o: ../common/%.c
104 $(COMPILE.c) -o $@ $<
105 $(POST_PROCESS_O)
106 #
107 pics/%.o: ../des/%.c
108 $(COMPILE.c) -o $@ $<
109 $(POST_PROCESS_O)
110 #
111 pics/%.o: ../dial/%.c
112 $(COMPILE.c) -o $@ $<
113 $(POST_PROCESS_O)
114 #
115 pics/%.o: ../ipsec/%.c
116 $(COMPILE.c) -o $@ $<
117 $(POST_PROCESS_O)
118 #
119 pics/%.o: ../netdir/%.c
120 $(COMPILE.c) -o $@ $<
121 $(POST_PROCESS_O)
122 #
123 pics/%.o: ../nss/%.c
124 $(COMPILE.c) -o $@ $<
125 $(POST_PROCESS_O)
126 #
127 pics/%.o: ../netselect/%.c

```

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

```

128      $(COMPILE.c) -o $@ $<
129      $(POST_PROCESS_O)

131 pics/%.o: ../nsl/%.c
132      $(COMPILE.c) -o $@ $<
133      $(POST_PROCESS_O)

135 pics/%.o: ../rpc/%.c
136      $(COMPILE.c) -DPORTMAP -DNIS -o $@ $<
137      $(POST_PROCESS_O)

139 pics/%.o: ../saf/%.c
140      $(COMPILE.c) -o $@ $<
141      $(POST_PROCESS_O)

143 pics/%.o: ../yp/%.c
144      $(COMPILE.c) -o $@ $<
145      $(POST_PROCESS_O)

147 pics/%.o: ../key/%.c
148      $(COMPILE.c) -o $@ $<
149      $(POST_PROCESS_O)

151 pics/%.o: ../nis/gen/%.c ../nis/gen/nis_clnt.h
152      $(COMPILE.c) -o $@ $<
153      $(POST_PROCESS_O)

156 pics/%.o: ../nis/gen/nis_clnt.h
157      $(COMPILE.c) -o $@ $<
158      $(POST_PROCESS_O)

160 # include library definitions
161 include ../../Makefile.lib

163 # install this library in the root filesystem
164 include ../../Makefile.rootfs

166 LIBS =          $(DYNLIB) $(LINTLIB)

168 SRCDIR=         ../common

170 # Override the position-independent code generation flags.
171 #
172 # These files are particularly rich with references to global things.
173 # Ordering is by number of got references per file of files that have
174 # non-performance sensitive code in them.
175 #
176 # If you need to add more files and the GOT overflows with "pic" items,
177 # then use the environment variable LD_OPTIONS=-Dgot,detail to have the
178 # linker print out the list of GOT hogs..

180 GOTHOGS =       dial.o print_obj.o clnt_perror.o nsl_stdio_prv.o netdir.o \
181                algs.o netselect.o
182 BIGPICS =       $(GOTHOGS:%=pics/%)
183 $(BIGPICS) :=   sparc_C_PICFLAGS = $(C_BIGPICFLAGS)
184 $(BIGPICS) :=   i386_C_PICFLAGS = $(C_BIGPICFLAGS)

186 # Compile C++ code without exceptions to avoid a dependence on libc.
187 NOEXCEPTIONS= -noex
188 CCFLAGS += $(NOEXCEPTIONS)
189 CCFLAGS64 += $(NOEXCEPTIONS)

186 CPPFLAGS += -I$(SRC)/lib/libnsl/include -D_REENTRANT
187 CPPFLAGS += -I$(SRC)/lib/libnsl/dial

```

3

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

```

189 CFLAGS +=      $(CCVERBOSE)

191 # Make string literals read-only to save memory.
192 CFLAGS +=      $(XSTRCONST)
193 CFLAGS64 +=    $(XSTRCONST)
194 CCFLAGS +=     -_CC=-features=conststrings
195 CCFLAGS64 +=   -_CC=-features=conststrings

197 CERRWARN +=    -_gcc=-Wno-char-subscripts
198 CERRWARN +=    -_gcc=-Wno-parentheses
199 CERRWARN +=    -_gcc=-Wno-uninitialized
200 CERRWARN +=    -_gcc=-Wno-switch
201 CERRWARN +=    -_gcc=-Wno-char-subscripts
202 CERRWARN +=    -_gcc=-Wno-empty-body
203 CERRWARN +=    -_gcc=-Wno-unused-variable
204 CERRWARN +=    -_gcc=-Wno-clobbered

206 LIBMP =        -lmp
207 lint :=        LIBMP =
208 LDLIBS +=      $(LIBMP) -lmd -lc
209 DYNFLAGS +=    $(ZNODELETE)

211 $(LINTLIB):=   SRCS=$(SRCDIR)/$(LINTSRC)
212 LINTFLAGS +=   -m -DPORTMAP
213 LINTFLAGS64 += -m -DPORTMAP

215 .KEEP_STATE:

217 all: $(LIBS)

219 # Don't lint WRAPPERS as they are explicitly unclean
220 SRCS=          $(DES:%.o=../des/%.c) \
221                $(DIAL:%.o=../dial/%.c) \
222                $(IPSEC:%.o=../ipsec/%.c) \
223                $(NETDIR:%.o=../netdir/%.c) \
224                $(NSS:%.o=../nss/%.c) \
225                $(NETSELECT:%.o=../netselect/%.c) \
226                $(NSL:%.o=../nsl/%.c) \
227                $(RPC:%.o=../rpc/%.c) \
228                $(SAF:%.o=../saf/%.c) \
229                $(YP:%.o=../yp/%.c) \
230                $(NIS_GEN:%.o=../nis/gen/%.c) \
231                $(COMMON:%.o=../common/%.c)

233 lint:
234      @$ (LINT.c) $(SRCS) $(LDLIBS)

236 # include library targets
237 include ../../Makefile.targ

```

4

```

*****
41222 Thu Oct  4 22:48:35 2018
new/usr/src/tools/cw/cw.c
9868 unused cw translations should be removed
*****

2 /*
3 * CDDL HEADER START
4 *
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */

23 /*
24 * Copyright 2018, Richard Lowe.
25 */
26 /*
27 * Copyright 2010 Sun Microsystems, Inc. All rights reserved.
28 * Use is subject to license terms.
29 */

31 /*
32 * Wrapper for the GNU C compiler to make it accept the Sun C compiler
33 * arguments where possible.
34 *
35 * Since the translation is inexact, this is something of a work-in-progress.
36 *
37 */

39 /* If you modify this file, you must increment CW_VERSION */
40 #define CW_VERSION      "3.0"
40 #define CW_VERSION      "2.0"

42 /*
43 * -#           Verbose mode
44 * -###        Show compiler commands built by driver, no compilation
45 * -A<name[(tokens)]> Preprocessor predicate assertion
46 * -B<[static|dynamic]> Specify dynamic or static binding
47 * -C           Prevent preprocessor from removing comments
48 * -c           Compile only - produce .o files, suppress linking
49 * -cg92        Alias for -xtarget=ss1000
50 * -D<name[(token)]> Associate name with token as if by #define
51 * -d[y|n]      dynamic [-dy] or static [-dn] option to linker
52 * -E           Compile source through preprocessor only, output to stdout
53 * -erroff=<t>  Suppress warnings specified by tags t(%none, %all, <tag list>)
54 * -errtags=<a> Display messages with tags a(no, yes)
55 * -errwarn=<t> Treats warnings specified by tags t(%none, %all, <tag list>)
56 *              as errors
57 * -fast        Optimize using a selection of options
58 * -fd          Report old-style function definitions and declarations
59 * -features=zla Allow zero-length arrays
60 * -flags       Show this summary of compiler options

```

```

59 * -fnonstd     Initialize floating-point hardware to non-standard preferences
60 * -fns[=<yes|no>] Select non-standard floating point mode
61 * -fpprecision=<p> Set FP rounding precision mode p(single, double, extended)
62 * -fround=<r>   Select the IEEE rounding mode in effect at startup
63 * -fsimple[=<n>] Select floating-point optimization preferences <n>
64 * -fsingle     Use single-precision arithmetic (-Xt and -Xs modes only)
65 * -ftrap=<t>   Select floating-point trapping mode in effect at startup
66 * -fstore      force floating pt. values to target precision on assignment
67 * -G           Build a dynamic shared library
68 * -g           Compile for debugging
69 * -H           Print path name of each file included during compilation
70 * -h <name>    Assign <name> to generated dynamic shared library
71 * -I<dir>      Add <dir> to preprocessor #include file search path
72 * -i           Passed to linker to ignore any LD_LIBRARY_PATH setting
73 * -keeptmp     Keep temporary files created during compilation
74 * -KPIC        Compile position independent code with 32-bit addresses
75 * -Kpic        Compile position independent code
76 * -L<dir>      Pass to linker to add <dir> to the library search path
77 * -l<name>     Link with library lib<name>.a or lib<name>.so
78 * -mc          Remove duplicate strings from .comment section of output files
79 * -mr          Remove all strings from .comment section of output files
80 * -mr,"string" Remove all strings and append "string" to .comment section
81 * -mt          Specify options needed when compiling multi-threaded code
82 * -native      Find available processor, generate code accordingly
83 * -nofstore    Do not force floating pt. values to target precision
84 *              on assignment
85 * -nolib       Same as -xnolib
86 * -noqueue     Disable queuing of compiler license requests
87 * -norunpath   Do not build in a runtime path for shared libraries
88 * -O           Use default optimization level (-xO2 or -xO3. Check man page.)
89 * -o <outputfile> Set name of output file to <outputfile>
90 * -P           Compile source through preprocessor only, output to .i file
91 * -PIC         Alias for -KPIC or -xcode=pic32
92 * -p           Compile for profiling with prof
93 * -pic         Alias for -Kpic or -xcode=pic13
94 * -Q[y|n]      Emit/don't emit identification info to output file
95 * -qp          Compile for profiling with prof
96 * -R<dir[:dir]> Build runtime search path list into executable
97 * -S           Compile and only generate assembly code (.s)
98 * -s           Strip symbol table from the executable file
99 * -t           Turn off duplicate symbol warnings when linking
100 * -U<name>     Delete initial definition of preprocessor symbol <name>
101 * -V           Report version number of each compilation phase
102 * -w           Do stricter semantic checking
103 * -W<c>,<arg>  Pass <arg> to specified component <c> (a,l,m,p,0,2,h,i,u)
104 * -w           Suppress compiler warning messages
105 * -Xa          Compile assuming ANSI C conformance, allow K & R extensions
106 *              (default mode)
107 * -Xc          Compile assuming strict ANSI C conformance
108 * -Xs          Compile assuming (pre-ANSI) K & R C style code
109 * -Xt          Compile assuming K & R conformance, allow ANSI C
110 * -x386        Generate code for the 80386 processor
111 * -x486        Generate code for the 80486 processor
112 * -xarch=<a>   Specify target architecture instruction set
113 * -xbuiltin[=<b>] When profitable inline, or substitute intrinsic functions
114 *              for system functions, b={%all,%none}
115 * -xCC         Accept C++ style comments
116 * -xchar_byte_order=<o> Specify multi-char byte order <o> (default, high, low)
117 * -xchip=<c>   Specify the target processor for use by the optimizer
118 * -xcode=<c>   Generate different code for forming addresses
119 * -xcrossfile[=<n>] Enable optimization and inlining across source files,
120 *              n={0|1}
121 * -xe          Perform only syntax/semantic checking, no code generation
122 * -xF          Compile for later mapfile reordering or unused section
123 *              elimination
124 * -xhelp=<f>   Display on-line help information f(flags, readme, errors)

```

```

116 * -xildoff      Cancel -xildon
117 * -xildon       Enable use of the incremental linker, ild
118 * -xinline=[<a>,...,<a>] Attempt inlining of specified user routines,
119 *               <a>={%auto,func,no%func}
120 * -xlibmieee   Force IEEE 754 return values for math routines in
121 *               exceptional cases
122 * -xlibmil      Inline selected libm math routines for optimization
123 * -xlic_lib=sunperf Link in the Sun supplied performance libraries
124 * -xlicinfo     Show license server information
125 * -xM           Generate makefile dependencies
126 * -xM1         Generate makefile dependencies, but exclude /usr/include
127 * -xmaxopt=[off,1,2,3,4,5] maximum optimization level allowed on #pragma opt
128 * -xnolib      Do not link with default system libraries
129 * -xnolibmil   Cancel -xlibmil on command line
130 * -xO<n>       Generate optimized code (n={1|2|3|4|5})
131 * -xP          Print prototypes for function definitions
132 * -xpentium    Generate code for the pentium processor
133 * -xpg         Compile for profiling with gprof
134 * -xprofile=<p> Collect data for a profile or use a profile to optimize
135 *               <p>={{collect,use}[:<path>],tcov}
136 * -xregs=<r>   Control register allocation
137 * -xs          Allow debugging without object (.o) files
138 * -xsb         Compile for use with the WorkShop source browser
139 * -xsbfast     Generate only WorkShop source browser info, no compilation
140 * -xsfpcnst   Represent unsuffixed floating point constants as single
141 *             precision
142 * -xspace      Do not do optimizations that increase code size
143 * -xstrcnst   Place string literals into read-only data segment
144 * -xtarget=<t> Specify target system for optimization
145 * -xtemp=<dir> Set directory for temporary files to <dir>
146 * -xtime      Report the execution time for each compilation phase
147 * -xtransition Emit warnings for differences between K&R C and ANSI C
148 * -xtrigraphs[=<yes/no>] Enable/disable trigraph translation
149 * -xunroll=n  Enable unrolling loops n times where possible
150 * -Y<c>,<dir> Specify <dir> for location of component <c> (a,l,m,p,0,h,i,u)
151 * -YA,<dir>   Change default directory searched for components
152 * -YI,<dir>  Change default directory searched for include files
153 * -YP,<dir>  Change default directory for finding libraries files
154 * -YS,<dir>  Change default directory for startup object files
155 */
156 /*
157 * Translation table:
158 */
159 /*
160 */
161 * -#           -v
162 * -###        error
163 * -A<name[(tokens)]> pass-thru
164 * -B[<static|dynamic>] pass-thru (syntax error for anything else)
165 * -C          pass-thru
166 * -c          pass-thru
167 * -cg92       -m32 -mcpu=v8 -mtune=supersparc (SPARC only)
168 * -D<name[=token]> pass-thru
169 * -dy or -dn  -Wl,-dy or -Wl,-dn
170 * -E          pass-thru
171 * -erroff=E_EMPTY_TRANSLATION_UNIT ignore
172 * -errtags=%all -Wall
173 * -errwarn=%all -Werror else -Wno-error
174 * -fast       error
175 * -fd         error
176 * -features=zla ignore
177 * -flags      --help
178 * -fnonstd    error
179 * -fns[=<yes|no>] error
180 * -fprecision=<p> error
181 * -fround=<r> error

```

```

172 * -fsimple[=<n>] error
173 * -fsingle[=<n>] error
174 * -ftrap=<t> error
175 * -fstore     error
176 * -G          pass-thru
177 * -g          pass-thru
178 * -H          pass-thru
179 * -h <name>   pass-thru
180 * -I<dir>     pass-thru
181 * -i          pass-thru
182 * -keeptmp    -save-temps
183 * -KPIC       -fPIC
184 * -Kpic       -fpic
185 * -L<dir>     pass-thru
186 * -l<name>    pass-thru
187 * -mc         error
188 * -mr         error
189 * -mr,"string" error
190 * -mt         -D_REENTRANT
191 * -native     error
192 * -nofstore   error
193 * -nolib      -nodefaultlibs
194 * -noqueue    ignore
195 * -norunpath ignore
196 * -O          -O1 (Check the man page to be certain)
197 * -o <outputfile> pass-thru
198 * -p          -E -o filename.i (or error)
199 * -PIC        -fPIC (C++ only)
200 * -p         pass-thru
201 * -pic        -fpic (C++ only)
202 * -Q[y|n]    error
203 * -qp        -p
204 * -R<dir[:dir]> pass-thru
205 * -S         pass-thru
206 * -s         -Wl,-s
207 * -t         -Wl,-t
208 * -U<name>   pass-thru
209 * -V         --version
210 * -v         -Wall
211 * -Wa,<arg>  pass-thru
212 * -Wp,<arg>  pass-thru except -xc99=<a>
213 * -Wl,<arg>  pass-thru
214 * -W{m,0,2,h,i,u} error/ignore
215 * -Wu,-xmodel=kernel -ffreestanding -mmodel=kernel -mno-red-zone
216 * -xmodel=kernel -ffreestanding -mmodel=kernel -mno-red-zone
217 * -Wu,-save_args -msave_args
218 * -w         pass-thru
219 * -Xa        -std=iso9899:199409 or -ansi
220 * -Xc        -ansi -pedantic
221 * -Xt        error
222 * -Xs        -traditional -std=c89
223 * -x386      -march=i386 (x86 only)
224 * -x486      -march=i486 (x86 only)
225 * -xarch=<a> table
226 * -xbuiltin[=<b>] -fbuiltin (-fno-builtin otherwise)
227 * -xCC       ignore
228 * -xchar_byte_order=<o> error
229 * -xchip=<c> table
230 * -xcode=<c> table
231 * -xdebugformat=<format> ignore (always use dwarf-2 for gcc)
232 * -xcrossfile[=<n>] ignore
233 * -xe        error
234 * -xF        error
235 * -xhelp=<f> error
236 * -xildoff   ignore
237 * -xildon    ignore

```

```

229 * -xinline          ignore
230 * -xlibmieee        error
231 * -xlibmil          error
232 * -xlic_lib=sunperf error
233 * -xM               -M
234 * -xM1              -MM
235 * -xmaxopt=[...]   error
236 * -xnolib           -nodefaultlibs
237 * -xnolibmil        error
238 * -xO<n>            -O<n>
239 * -xP               error
240 * -xpentium         -march=pentium (x86 only)
241 * -xpg              error
242 * -xprofile=<p>      error
243 * -xregs=<r>         table
244 * -xs               error
245 * -xsb              error
246 * -xsbfast          error
247 * -xsfpcnst         error
248 * -xspace           ignore (-not -Os)
249 * -xstrcnst         ignore
250 * -xtarget=<t>       table
251 * -xtemp=<dir>       error
252 * -xtime            error
253 * -xtransition      -Wtransition
254 * -xtrigraphs=<yes/no> -trigraphs -notrigraphs
255 * -xunroll=n        error
256 * -W0,-xdbggen=no%usedonly -fno-eliminate-unused-debug-symbols
257 *                   -fno-eliminate-unused-debug-types
258 * -Y<c>,<dir>        error
259 * -YA,<dir>          error
260 * -YI,<dir>          -nostdinc -I<dir>
261 * -YP,<dir>          error
262 * -YS,<dir>          error
263 */

258 #include <ctype.h>
259 #include <err.h>
260 #include <errno.h>
261 #include <fcntl.h>
262 #include <getopt.h>
263 #include <stdio.h>
264 #include <stdlib.h>
265 #include <string.h>
266 #include <unistd.h>

268 #include <sys/param.h>
269 #include <sys/stat.h>
270 #include <sys/types.h>
271 #include <sys/utsname.h>
272 #include <sys/wait.h>

274 #define CW_F_CXX      0x01
275 #define CW_F_SHADOW  0x02
276 #define CW_F_EXEC    0x04
277 #define CW_F_ECHO    0x08
278 #define CW_F_XLATE   0x10
279 #define CW_F_PROG    0x20

281 typedef enum cw_op {
282     CW_O_NONE = 0,
283     CW_O_PREPROCESS,
284     CW_O_COMPILE,
285     CW_O_LINK
286 } cw_op_t;
  
```

```

492 static void
493 Xcmode(struct aelist *h)
494 {
495     static int xconce;
496
497     if (xconce++)
498         return;
499
500     newae(h, "-ansi");
501     newae(h, "-pedantic-errors");
502 }

541 static void
542 Xsmode(struct aelist *h)
543 {
544     static int xsonce;
545
546     if (xsonce++)
547         return;
548
549     newae(h, "-traditional");
550     newae(h, "-traditional-cpp");
551 }

  unchanged portion omitted

566 static void
567 do_gcc(cw_ictx_t *ctx)
568 {
569     int c;
570     int pic = 0, nolIBC = 0;
571     int in_output = 0, seen_o = 0, c_files = 0;
572     cw_op_t op = CW_O_LINK;
573     char *model = NULL;
574     char *nameflag;
575     int mflag = 0;

577     if (ctx->i_flags & CW_F_PROG) {
578         newae(ctx->i_ae, "--version");
579         return;
580     }

582     newae(ctx->i_ae, "-fident");
583     newae(ctx->i_ae, "-finline");
584     newae(ctx->i_ae, "-fno-inline-functions");
585     newae(ctx->i_ae, "-fno-builtin");
586     newae(ctx->i_ae, "-fno-asm");
587     newae(ctx->i_ae, "-fdiagnostics-show-option");
588     newae(ctx->i_ae, "-nodefaultlibs");

590 #if defined(__sparc)
591 /*
592  * The SPARC ldd and std instructions require 8-byte alignment of
593  * their address operand. gcc correctly uses them only when the
594  * ABI requires 8-byte alignment; unfortunately we have a number of
595  * pieces of buggy code that doesn't conform to the ABI. This
596  * flag makes gcc work more like Studio with -xmemalign=4.
597  */
598     newae(ctx->i_ae, "-mno-integer-ldd-std");
599 #endif

601 /*
602  * This is needed because 'u' is defined
603  * under a conditional on 'sun'. Should
604  * probably just remove the conditional,
605  * or make it be dependent on '__sun'.
  
```



```

606      *
607      * -Dunix is also missing in enhanced ANSI mode
608      */
609      newae(ctx->i_ae, "-D_sun");

611      if (asprintf(&nameflag, "-_%s=", ctx->i_compiler->c_name) == -1)
612          nomem();

614      /*
615      * Walk the argument list, translating as we go ..
616      */
617      while (--ctx->i_oldargc > 0) {
618          char *arg = **ctx->i_oldargv;
619          size_t arglen = strlen(arg);

621          if (*arg == '-') {
622              arglen--;
623          } else {
624              /*
625              * Discard inline files that gcc doesn't grok
626              */
627              if (!in_output && arglen > 3 &&
628                  strcmp(arg + arglen - 3, ".il") == 0)
629                  continue;

631              if (!in_output && arglen > 2 &&
632                  arg[arglen - 2] == '.' &&
633                  (arg[arglen - 1] == 'S' || arg[arglen - 1] == 's' ||
634                   arg[arglen - 1] == 'c' || arg[arglen - 1] == 'i'))
635                  c_files++;

637              /*
638              * Otherwise, filenames and partial arguments
639              * are passed through for gcc to chew on. However,
640              * output is always discarded for the secondary
641              * compiler.
642              */
643              if ((ctx->i_flags & CW_F_SHADOW) && in_output)
644                  newae(ctx->i_ae, ctx->i_discard);
645              else
646                  newae(ctx->i_ae, arg);
647              in_output = 0;
648              continue;
649          }

651          if (ctx->i_flags & CW_F_CXX) {
652              if (strncmp(arg, "-_g++=", 6) == 0) {
653                  newae(ctx->i_ae, strchr(arg, '=') + 1);
654                  continue;
655              }
656              if (strncmp(arg, "-compat=", 8) == 0) {
657                  /* discard -compat=4 and -compat=5 */
658                  continue;
659              }
660              if (strcmp(arg, "-Qoption") == 0) {
661                  /* discard -Qoption and its two arguments */
662                  if (ctx->i_oldargc < 3)
663                      error(arg);
664                  ctx->i_oldargc -= 2;
665                  ctx->i_oldargv += 2;
666                  continue;
667              }
668              if (strcmp(arg, "-xwe") == 0) {
669                  /* turn warnings into errors */
670                  newae(ctx->i_ae, "-Werror");
671                  continue;

```

```

672          }
673          if (strcmp(arg, "-noex") == 0) {
674              /* no exceptions */
675              newae(ctx->i_ae, "-fno-exceptions");
676              /* no run time type descriptor information */
677              newae(ctx->i_ae, "-fno-rtti");
678              continue;
679          }
680          if (strcmp(arg, "-pic") == 0) {
681              newae(ctx->i_ae, "-fpic");
682              pic = 1;
683              continue;
684          }
685          if (strcmp(arg, "-PIC") == 0) {
686              newae(ctx->i_ae, "-fPIC");
687              pic = 1;
688              continue;
689          }
690          if (strcmp(arg, "-norunpath") == 0) {
691              /* gcc has no corresponding option */
692              continue;
693          }
694          if (strcmp(arg, "-nolib") == 0) {
695              /* -nolib is on by default */
696              nolibc = 1;
697              continue;
698          }
699          #if defined(__sparc)
700          if (strcmp(arg, "-cg92") == 0) {
701              mflag |= xlate_xtb(ctx->i_ae, "v8");
702              xlate(ctx->i_ae, "super", xchip_tbl);
703              continue;
704          }
705          #endif /* __sparc */

706          switch ((c = arg[1])) {
707              case '_':
708                  if ((strncmp(arg, nameflag, strlen(nameflag)) == 0) ||
709                      (strncmp(arg, "-_gcc=", 6) == 0) ||
710                      (strncmp(arg, "-_gnu=", 6) == 0)) {
711                      newae(ctx->i_ae, strchr(arg, '=') + 1);
712                      break;
713                  }
714                  error(arg);
715                  break;
716              case '#':
717                  if (arglen == 1) {
718                      newae(ctx->i_ae, "-v");
719                      break;
720                  }
721                  error(arg);
722                  break;
723              case 'g':
724                  newae(ctx->i_ae, "-gdwarf-2");
725                  break;
726              case 'E':
727                  if (arglen == 1) {
728                      newae(ctx->i_ae, "-xc");
729                      newae(ctx->i_ae, arg);
730                      op = CW_O_PREPROCESS;
731                      nolibc = 1;
732                      break;
733                  }
734                  error(arg);
735                  break;
736              case 'c':
737              case 'S':

```

```

721         if (arglen == 1) {
722             op = CW_O_COMPILE;
723             nolibc = 1;
724         }
725         /* FALLTHROUGH */
726     case 'C':
727     case 'H':
728     case 'p':
729         if (arglen == 1) {
730             newae(ctx->i_ae, arg);
731             break;
732         }
733         error(arg);
734         break;
735     case 'A':
736     case 'h':
737     case 'I':
738     case 'i':
739     case 'L':
740     case 'l':
741     case 'R':
742     case 'U':
743     case 'u':
744     case 'w':
745         newae(ctx->i_ae, arg);
746         break;
747     case 'o':
748         seen_o = 1;
749         if (arglen == 1) {
750             in_output = 1;
751             newae(ctx->i_ae, arg);
752         } else if (ctx->i_flags & CW_F_SHADOW) {
753             newae(ctx->i_ae, "-o");
754             newae(ctx->i_ae, ctx->i_discard);
755         } else {
756             newae(ctx->i_ae, arg);
757         }
758         break;
759     case 'D':
760         newae(ctx->i_ae, arg);
761         /*
762          * XXX Clearly a hack ... do we need _KADB too?
763          */
764         if (strcmp(arg, "-D_KERNEL") == 0 ||
765             strcmp(arg, "-D_BOOT") == 0)
766             newae(ctx->i_ae, "-ffreestanding");
767         break;
768     case 'd':
769         if (arglen == 2) {
770             if (strcmp(arg, "-dy") == 0) {
771                 newae(ctx->i_ae, "-Wl,-dy");
772                 break;
773             }
774             if (strcmp(arg, "-dn") == 0) {
775                 newae(ctx->i_ae, "-Wl,-dn");
776                 break;
777             }
778         }
779         if (strcmp(arg, "-dalign") == 0) {
780             /*
781              * -dalign forces alignment in some cases;
782              * gcc does not need any flag to do this.
783              */
784             break;
785         }
786         error(arg);

```

```

787         break;
788     case 'e':
789         if (strcmp(arg,
790             "-erroff=E_EMPTY_TRANSLATION_UNIT") == 0) {
791             /*
792              * Accept but ignore this -- gcc doesn't
793              * seem to complain about empty translation
794              * units
795              */
796             break;
797         }
798         /* XX64 -- ignore all -erroff= options, for now */
799         if (strcmp(arg, "-erroff=", 8) == 0)
800             break;
801         if (strcmp(arg, "-errtags=yes") == 0) {
802             warnings(ctx->i_ae);
803             break;
804         }
805         if (strcmp(arg, "-errwarn=%all") == 0) {
806             newae(ctx->i_ae, "-Werror");
807             break;
808         }
809         error(arg);
810         break;
811     case 'f':
812         if (strcmp(arg, "-flags") == 0) {
813             newae(ctx->i_ae, "--help");
814             break;
815         }
816         if (strcmp(arg, "-features=zla", 13) == 0) {
817             /*
818              * Accept but ignore this -- gcc allows
819              * zero length arrays.
820              */
821             break;
822         }
823         error(arg);
824         break;
825     case 'G':
826         newae(ctx->i_ae, "-shared");
827         nolibc = 1;
828         break;
829     case 'k':
830         if (strcmp(arg, "-keeptmp") == 0) {
831             newae(ctx->i_ae, "-save-temps");
832             break;
833         }
834         error(arg);
835         break;
836     case 'K':
837         if (arglen == 1) {
838             if ((arg = *+ctx->i_oldargv) == NULL ||
839                 *arg == '\0')
840                 error("-K");
841             ctx->i_oldargc--;
842         } else {
843             arg += 2;
844         }
845         if (strcmp(arg, "pic") == 0) {
846             newae(ctx->i_ae, "-fpic");
847             pic = 1;
848             break;
849         }
850         if (strcmp(arg, "PIC") == 0) {
851             newae(ctx->i_ae, "-fPIC");
852             pic = 1;

```

```

839         break;
840     }
841     error("-K");
842     break;
843 case 'm':
844     if (strcmp(arg, "-mt") == 0) {
845         newae(ctx->i_ae, "-D_REENTRANT");
846         break;
847     }
848     if (strcmp(arg, "-m64") == 0) {
849         newae(ctx->i_ae, "-m64");
850 #if defined(__x86)
851         newae(ctx->i_ae, "-mtune=opteron");
852 #endif
853         mflag |= M64;
854         break;
855     }
856     if (strcmp(arg, "-m32") == 0) {
857         newae(ctx->i_ae, "-m32");
858         mflag |= M32;
859         break;
860     }
861     error(arg);
862     break;
863 case 'B': /* linker options */
864 case 'M':
865 case 'z':
866     {
867         char *opt;
868         size_t len;
869         char *s;
870
871         if (arglen == 1) {
872             opt = **++ctx->i_oldargv;
873             if (opt == NULL || *opt == '\\0')
874                 error(arg);
875             ctx->i_oldargc--;
876         } else {
877             opt = arg + 2;
878         }
879         len = strlen(opt) + 7;
880         if ((s = malloc(len)) == NULL)
881             nomem();
882         (void) snprintf(s, len, "-Wl,-%c%s", c, opt);
883         newae(ctx->i_ae, s);
884         free(s);
885     }
886     break;
887 case 'n':
888     if (strcmp(arg, "-noqueue") == 0) {
889         /*
890          * Horrid license server stuff - n/a
891          */
892         break;
893     }
894     error(arg);
895     break;
896 case 'O':
897     if (arglen == 1) {
898         newae(ctx->i_ae, "-O");
899         break;
900     }
901     error(arg);
902     break;
903 case 'P':
904     /*

```

```

905         * We could do '-E -o filename.i', but that's hard,
906         * and we don't need it for the case that's triggering
907         * this addition. We'll require the user to specify
908         * -o in the Makefile. If they don't they'll find out
909         * in a hurry.
910         */
911         newae(ctx->i_ae, "-E");
912         op = CW_O_PREPROCESS;
913         nolibc = 1;
914         break;
915 case 'q':
916     if (strcmp(arg, "-qp") == 0) {
917         newae(ctx->i_ae, "-p");
918         break;
919     }
920     error(arg);
921     break;
922 case 's':
923     if (arglen == 1) {
924         newae(ctx->i_ae, "-Wl,-s");
925         break;
926     }
927     error(arg);
928     break;
929 case 't':
930     if (arglen == 1) {
931         newae(ctx->i_ae, "-Wl,-t");
932         break;
933     }
934     error(arg);
935     break;
936 case 'V':
937     if (arglen == 1) {
938         ctx->i_flags &= ~CW_F_ECHO;
939         newae(ctx->i_ae, "--version");
940         break;
941     }
942     error(arg);
943     break;
944 case 'v':
945     if (arglen == 1) {
946         warnings(ctx->i_ae);
947         break;
948     }
949     error(arg);
950     break;
951 case 'W':
952     if (strncmp(arg, "-Wp,-xc99", 9) == 0) {
953         /*
954          * gcc's preprocessor will accept c99
955          * regardless, so accept and ignore.
956          */
957         break;
958     }
959     if (strncmp(arg, "-Wa,", 4) == 0 ||
960         strncmp(arg, "-Wp,", 4) == 0 ||
961         strncmp(arg, "-Wl,", 4) == 0) {
962         newae(ctx->i_ae, arg);
963         break;
964     }
965     if (strcmp(arg, "-W0,-xc99=pragma") == 0) {
966         /* (undocumented) enables _Pragma */
967         break;
968     }
969     if (strcmp(arg, "-W0,-xc99=%none") == 0) {
970         /*

```

```

1051         * This is a polite way of saying
1052         * "no c99 constructs allowed!"
1053         * For now, just accept and ignore this.
1054         */
1055         break;
1056     }
1057     if (strcmp(arg, "-W0,-noglobal") == 0 ||
1058         strcmp(arg, "-W0,-xglobalstatic") == 0) {
1059         /*
1060          * gcc doesn't prefix local symbols
1061          * in debug mode, so this is not needed.
1062          */
1063         break;
1064     }
1065     if (strcmp(arg, "-W0,-Lt") == 0) {
1066         /*
1067          * Generate tests at the top of loops.
1068          * There is no direct gcc equivalent, ignore.
1069          */
1070         break;
1071     }
1072     if (strcmp(arg, "-W0,-xdbggen=no%usedonly") == 0) {
1073         newae(ctx->i_ae,
1074             "-fno-eliminate-unused-debug-symbols");
1075         newae(ctx->i_ae,
1076             "-fno-eliminate-unused-debug-types");
1077         break;
1078     }
1079     if (strcmp(arg, "-W2,-xwrap_int") == 0) {
1080         /*
1081          * Use the legacy behaviour (pre-SS11)
1082          * for integer wrapping.
1083          * gcc does not need this.
1084          */
1085         break;
1086     }
1087     if (strcmp(arg, "-W2,-Rcond_elim") == 0) {
1088         /*
1089          * Elimination and expansion of conditionals;
1090          * gcc has no direct equivalent.
1091          */
1092         break;
1093     }
1094     if (strcmp(arg, "-Wd,-xsafe=unboundsym") == 0) {
1095         /*
1096          * Prevents optimizing away checks for
1097          * unbound weak symbol addresses. gcc does
1098          * not do this, so it's not needed.
1099          */
1100         break;
1101     }
1102     if (strncmp(arg, "-Wc,-xcode=", 11) == 0) {
1103         xlate(ctx->i_ae, arg + 11, xcode_tbl);
1104         if (strncmp(arg + 11, "pic", 3) == 0)
1105             pic = 1;
1106         break;
1107     }
1108     if (strncmp(arg, "-Wc,-Qiselect", 13) == 0) {
1109         /*
1110          * Prevents insertion of register symbols.
1111          * gcc doesn't do this, so ignore it.
1112          */
1113         break;
1114     }
1115     if (strcmp(arg, "-Wc,-Qassembler-ounrefsym=0") == 0) {
1116         /*

```

```

1117          * Prevents optimizing away of static variables.
1118          * gcc does not do this, so it's not needed.
1119          */
1120         break;
1121     }
1122     #if defined(__x86)
1123     if (strcmp(arg, "-Wu,-xmodel=kernel") == 0) {
1124         newae(ctx->i_ae, "-ffreestanding");
1125         newae(ctx->i_ae, "-mno-red-zone");
1126         model = "-mcmmodel=kernel";
1127         nolIBC = 1;
1128         break;
1129     }
1130     if (strcmp(arg, "-Wu,-save_args") == 0) {
1131         newae(ctx->i_ae, "-msave_args");
1132         break;
1133     }
1134     #endif /* __x86 */
1135     error(arg);
1136     break;
1137     case 'X':
1138     if (strcmp(arg, "-Xa") == 0 ||
1139         strcmp(arg, "-Xt") == 0) {
1140         Xamode(ctx->i_ae);
1141         break;
1142     }
1143     if (strcmp(arg, "-Xc") == 0) {
1144         Xcmode(ctx->i_ae);
1145         break;
1146     }
1147     if (strcmp(arg, "-Xs") == 0) {
1148         Xsmode(ctx->i_ae);
1149         break;
1150     }
1151     error(arg);
1152     break;
1153     case 'x':
1154     if (arglen == 1)
1155         error(arg);
1156     switch (arg[2]) {
1157     #if defined(__x86)
1158     case '3':
1159         if (strcmp(arg, "-x386") == 0) {
1160             newae(ctx->i_ae, "-march=i386");
1161             break;
1162         }
1163         error(arg);
1164         break;
1165     case '4':
1166         if (strcmp(arg, "-x486") == 0) {
1167             newae(ctx->i_ae, "-march=i486");
1168             break;
1169         }
1170         error(arg);
1171         break;
1172     #endif /* __x86 */
1173     case 'a':
1174     if (strncmp(arg, "-xarch=", 7) == 0) {
1175         mflag |= xlate_xtb(ctx->i_ae, arg + 7);
1176         break;
1177     }
1178     error(arg);
1179     break;
1180     case 'b':
1181     if (strncmp(arg, "-xbuiltin=", 10) == 0) {
1182         if (strcmp(arg + 10, "%all")

```

```

1041             newae(ctx->i_ae, "--fbuiltin");
1042             break;
1043         }
1044         error(arg);
1045         break;
1046     case 'C':
1047         /* Accept C++ style comments -- ignore */
1048         if (strcmp(arg, "-xCC") == 0)
1049             break;
1050         error(arg);
1051         break;
1052     case 'c':
1053         if (strncmp(arg, "-xc99=%all", 10) == 0) {
1054             newae(ctx->i_ae, "-std=gnu99");
1055             break;
1056         }
1057         if (strncmp(arg, "-xc99=%none", 11) == 0) {
1058             newae(ctx->i_ae, "-std=gnu89");
1059             break;
1060         }
1061         if (strncmp(arg, "-xchip=", 7) == 0) {
1062             xlate(ctx->i_ae, arg + 7, xchip_tbl);
1063             break;
1064         }
1065         if (strncmp(arg, "-xcode=", 7) == 0) {
1066             xlate(ctx->i_ae, arg + 7, xcode_tbl);
1067             if (strncmp(arg + 7, "pic", 3) == 0)
1068                 pic = 1;
1069             break;
1070         }
1071         if (strncmp(arg, "-xcache=", 8) == 0)
1072             break;
1073         if (strncmp(arg, "-xcrossfile", 11) == 0)
1074             break;
1075         error(arg);
1076         break;
1077     case 'd':
1078         if (strcmp(arg, "-xdepend") == 0)
1079             break;
1080         if (strncmp(arg, "-xdebugformat=", 14) == 0)
1081             break;
1082         error(arg);
1083         break;
1084     case 'F':
1085         /*
1086          * Compile for mapfile reordering, or unused
1087          * section elimination, syntax can be -xF or
1088          * more complex, like -xF=%all -- ignore.
1089          */
1090         if (strncmp(arg, "-xF", 3) == 0)
1091             break;
1092         error(arg);
1093         break;
1094     case 'i':
1095         if (strncmp(arg, "-xinline", 8) == 0)
1096             /* No inlining; ignore */
1097             break;
1098         if (strcmp(arg, "-xildon") == 0 ||
1099             strcmp(arg, "-xildoff") == 0)
1100             /* No incremental linking; ignore */
1101             break;
1102         error(arg);
1103         break;
1104     #if defined(__x86)
1105     case 'm':
1106         if (strcmp(arg, "-xmodel=kernel") == 0) {

```

```

1103             newae(ctx->i_ae, "--ffreestanding");
1104             newae(ctx->i_ae, "--mno-red-zone");
1105             model = "--mcmmodel=kernel";
1106             nolibc = 1;
1107             break;
1108         }
1109         error(arg);
1110         break;
1111     #endif /* __x86 */
1112     case 'M':
1113         if (strcmp(arg, "-xM") == 0) {
1114             newae(ctx->i_ae, "-M");
1115             break;
1116         }
1117         if (strcmp(arg, "-xM1") == 0) {
1118             newae(ctx->i_ae, "-MM");
1119             break;
1120         }
1121         error(arg);
1122         break;
1123     case 'n':
1124         if (strcmp(arg, "-xnolib") == 0) {
1125             nolibc = 1;
1126             break;
1127         }
1128         error(arg);
1129         break;
1130     case 'O':
1131         if (strncmp(arg, "-xO", 3) == 0) {
1132             size_t len = strlen(arg);
1133             char *s = NULL;
1134             int c = *(arg + 3);
1135             int level;
1136
1137             if (len != 4 || !isdigit(c))
1138                 error(arg);
1139
1140             level = atoi(arg + 3);
1141             if (level > 5)
1142                 error(arg);
1143             if (level >= 2) {
1144                 /*
1145                  * For gcc-3.4.x at -O2 we
1146                  * need to disable optimizations
1147                  * that break ON.
1148                  */
1149                 optim_disable(ctx->i_ae, level);
1150                 /*
1151                  * limit -xO3 to -O2 as well.
1152                  */
1153                 level = 2;
1154             }
1155             if (asprintf(&s, "-O%d", level) == -1)
1156                 nomem();
1157             newae(ctx->i_ae, s);
1158             free(s);
1159             break;
1160         }
1161         error(arg);
1162         break;
1163     case 'p':
1164         if (strcmp(arg, "-xpentium") == 0) {
1165             newae(ctx->i_ae, "--march=pentium");
1166             break;
1167         }
1168         if (strcmp(arg, "-xpg") == 0) {

```

```

1315         newae(ctx->i_ae, "-pg");
1316         break;
1317     }
1318     error(arg);
1319     break;
1320 case 'r':
1321     if (strncmp(arg, "-xregs=", 7) == 0) {
1322         xlate(ctx->i_ae, arg + 7, xregs_tbl);
1323         break;
1324     }
1325     error(arg);
1326     break;
1327 case 's':
1328     if (strcmp(arg, "-xs") == 0 ||
1329         strcmp(arg, "-xspace") == 0 ||
1330         strcmp(arg, "-xstrconst") == 0)
1331         break;
1332     error(arg);
1333     break;
1334 case 't':
1335     if (strcmp(arg, "-xtransition") == 0) {
1336         newae(ctx->i_ae, "-Wtransition");
1337         break;
1338     }
1339     if (strcmp(arg, "-xtrigraphs=yes") == 0) {
1340         newae(ctx->i_ae, "-trigraphs");
1341         break;
1342     }
1343     if (strcmp(arg, "-xtrigraphs=no") == 0) {
1344         newae(ctx->i_ae, "-notrigraphs");
1345         break;
1346     }
1347     if (strncmp(arg, "-xtarget=", 9) == 0) {
1348         xlate(ctx->i_ae, arg + 9, xtarget_tbl);
1349         break;
1350     }
1351     error(arg);
1352     break;
1353 case 'e':
1354 case 'h':
1355 case 'l':
1356 default:
1357     error(arg);
1358     break;
1359 }
1360 break;
1361 case 'Y':
1362     if (arglen == 1) {
1363         if ((arg = **++ctx->i_oldargv) == NULL ||
1364             *arg == '\0')
1365             error("-Y");
1366         ctx->i_oldargc--;
1367         arglen = strlen(arg + 1);
1368     } else {
1369         arg += 2;
1370     }
1371     /* Just ignore -YS,... for now */
1372     if (strncmp(arg, "S,", 2) == 0)
1373         break;
1374     if (strncmp(arg, "l,", 2) == 0) {
1375         char *s = strdup(arg);
1376         s[0] = '-';
1377         s[1] = 'B';
1378         newae(ctx->i_ae, s);
1379         free(s);
1380         break;

```

```

1194     }
1195     if (strncmp(arg, "I,", 2) == 0) {
1196         char *s = strdup(arg);
1197         s[0] = '-';
1198         s[1] = 'I';
1199         newae(ctx->i_ae, "-nostdinc");
1200         newae(ctx->i_ae, s);
1201         free(s);
1202         break;
1203     }
1204     error(arg);
1205     break;
1206 case 'Q':
1207     /*
1208      * We could map -Qy into -Wl,-Qy etc.
1209      */
1210     default:
1211         error(arg);
1212         break;
1213     }
1214 }
1215
1216 free(nameflag);
1217
1218 if (c_files > 1 && (ctx->i_flags & CW_F_SHADOW) &&
1219     op != CW_O_PREPROCESS) {
1220     errx(2, "multiple source files are "
1221         "allowed only with -E or -P");
1222 }
1223
1224 /*
1225  * Make sure that we do not have any unintended interactions between
1226  * the xarch options passed in and the version of the Studio compiler
1227  * used.
1228  */
1229 if ((mflag & (SS11|SS12)) == (SS11|SS12)) {
1230     errx(2,
1231         "Conflicting \"-xarch=\" flags (both Studio 11 and 12)\n");
1232 }
1233
1234 switch (mflag) {
1235 case 0:
1236     /* FALLTHROUGH */
1237     case M32:
1238     #if defined(__sparc)
1239         /*
1240          * Only -m32 is defined and so put in the missing xarch
1241          * translation.
1242          */
1243         newae(ctx->i_ae, "-mcpu=v8");
1244         newae(ctx->i_ae, "-mmo-v8plus");
1245     #endif
1246     break;
1247     case M64:
1248     #if defined(__sparc)
1249         /*
1250          * Only -m64 is defined and so put in the missing xarch
1251          * translation.
1252          */
1253         newae(ctx->i_ae, "-mcpu=v9");
1254     #endif
1255     break;
1256     case SS12:
1257     #if defined(__sparc)
1258         /* no -m32/-m64 flag used - this is an error for sparc builds */
1259         (void) fprintf(stderr, "No -m32/-m64 flag defined\n");

```

```
1260             exit(2);
1261 #endif
1262             break;
1263     case SS11:
1264         /* FALLTHROUGH */
1265     case (SS11|M32):
1266     case (SS11|M64):
1267         break;
1268     case (SS12|M32):
1269 #if defined(__sparc)
1270         /*
1271          * Need to add in further 32 bit options because with SS12
1272          * the xarch=sparcvis option can be applied to 32 or 64
1273          * bit, and so the translation table (xtbl) cannot handle
1274          * that.
1275          */
1276         newae(ctx->i_ae, "-mv8plus");
1277 #endif
1278         break;
1279     case (SS12|M64):
1280         break;
1281     default:
1282         (void) fprintf(stderr,
1283             "Incompatible -xarch= and/or -m32/-m64 options used.\n");
1284         exit(2);
1285     }
1286
1287     if ((op == CW_O_LINK || op == CW_O_PREPROCESS) &&
1288         (ctx->i_flags & CW_F_SHADOW))
1289         exit(0);
1290
1291     if (model && !pic)
1292         newae(ctx->i_ae, model);
1293     if (!nolibc)
1294         newae(ctx->i_ae, "-lc");
1295     if (!seen_o && (ctx->i_flags & CW_F_SHADOW)) {
1296         newae(ctx->i_ae, "-o");
1297         newae(ctx->i_ae, ctx->i_discard);
1298     }
1299 }
1300
1301 unchanged portion omitted
```

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

1

```
*****
58080 Thu Oct 4 22:48:36 2018
new/usr/src/tools/scripts/nightly.sh
9868 unused cw translations should be removed
*****
_____unchanged_portion_omitted_____

163 #
164 # Function to do the build, including package generation.
165 # usage: build LABEL SUFFIX ND MULTIPROTO
166 # - LABEL is used to tag build output.
167 # - SUFFIX is used to distinguish files (e.g., DEBUG vs non-DEBUG,
168 #   open-only vs full tree).
169 # - ND is "-nd" (non-DEBUG builds) or "" (DEBUG builds).
170 # - If MULTIPROTO is "yes", it means to name the proto area according to
171 #   SUFFIX. Otherwise ("no"), (re)use the standard proto area.
172 #
173 function build {
174     LABEL=$1
175     SUFFIX=$2
176     ND=$3
177     MULTIPROTO=$4
178     INSTALLOG=install${SUFFIX}-${MACH}
179     NOISE=noise${SUFFIX}-${MACH}
180     PKGARCHIVE=${PKGARCHIVE_ORIG}${SUFFIX}

182     ORIGROOT=$ROOT
183     [ $MULTIPROTO = no ] || export ROOT=$ROOT$SUFFIX

185     export ENVLDLIBS1='myldlibs $ROOT'
186     export ENVCPPFLAGS1='myheaders $ROOT'

188     this_build_ok=y
189     #
190     #   Build OS-Networking source
191     #
192     echo "\n=== Building OS-Net source at 'date' ($LABEL) ===\n" \
193         >> $LOGFILE

195     rm -f $SRC/${INSTALLOG}.out
196     cd $SRC
197     /bin/time $MAKE -e install 2>&1 | \
198     tee -a $SRC/${INSTALLOG}.out >> $LOGFILE

200     echo "\n=== Build errors ($LABEL) ===\n" >> $mail_msg_file
201     egrep ":" $SRC/${INSTALLOG}.out |
202     egrep -e "(^${MAKE}:[{ } ]error[: ]\n)" | \
203     egrep -v "Ignoring unknown host" | \
204     egrep -v "cc .* -o error" | \
205     egrep -v "warning" | tee $TMPDIR/build_errs${SUFFIX} \
206     >> $mail_msg_file
207     sed -n "/^Undefined[ ]*first referenced$/,/^ld: fatal:p" \
208     < $SRC/${INSTALLOG}.out >> $mail_msg_file
209     if [[ -s $TMPDIR/build_errs${SUFFIX} ]]; then
210         build_ok=n
211         this_build_ok=n
212     fi
213     grep "bootblock image is .* bytes too big" $SRC/${INSTALLOG}.out \
214     >> $mail_msg_file
215     if [ "$?" = "0" ]; then
216         build_ok=n
217         this_build_ok=n
218     fi

220     echo "\n=== Build warnings ($LABEL) ===\n" >> $mail_msg_file
221     egrep -i warning: $SRC/${INSTALLOG}.out \
```

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

2

```
222     egrep -v '^tic: \\'
223     egrep -v "symbol (\\'|)timezone' has differing types:" \
224     egrep -v "parameter <PSTAMP> set to" \
225     egrep -v "Ignoring unknown host" \
226     egrep -v "redefining segment flags attribute for" \
227     tee $TMPDIR/build_warnings${SUFFIX} >> $mail_msg_file
228     if [[ -s $TMPDIR/build_warnings${SUFFIX} ]]; then
229         build_ok=n
230         this_build_ok=n
231     fi

233     echo "\n=== Ended OS-Net source build at 'date' ($LABEL) ===\n" \
234         >> $LOGFILE

236     echo "\n=== Elapsed build time ($LABEL) ===\n" >> $mail_msg_file
237     tail -3 $SRC/${INSTALLOG}.out >> $mail_msg_file

239     if [ "$i_FLAG" = "n" ]; then
240         rm -f $SRC/${NOISE}.ref
241         if [ -f $SRC/${NOISE}.out ]; then
242             mv $SRC/${NOISE}.out $SRC/${NOISE}.ref
243         fi
244         grep : $SRC/${INSTALLOG}.out \
245         | egrep -v '^/' \
246         | egrep -v '^(Start|Finish|real|user|sys|./bld_awk)' \
247         | egrep -v '^tic:' \
248         | egrep -v '^mcs:' \
249         | egrep -v '^LD_LIBRARY_PATH=' \
250         | egrep -v 'ar: creating' \
251         | egrep -v 'ar: writing' \
252         | egrep -v 'conflicts:' \
253         | egrep -v ':saved created' \
254         | egrep -v '^stty.*c:' \
255         | egrep -v '^mfname.c:' \
256         | egrep -v '^uname-i.c:' \
257         | egrep -v '^volumes.c:' \
258         | egrep -v '^lint library construction:' \
259         | egrep -v 'tsort: INFORM:' \
260         | egrep -v 'stripalign:' \
261         | egrep -v 'chars, width' \
262         | egrep -v "symbol (\\'|)timezone' has differing types:" \
263         | egrep -v 'PSTAMP' \
264         | egrep -v '^Manifesting' \
265         | egrep -v 'Ignoring unknown host' \
266         | egrep -v 'Processing method:' \
267         | egrep -v '^Writing' \
268         | egrep -v 'spellinl:' \
269         | egrep -v '^adding:' \
270         | egrep -v "echo 'msgid'" \
271         | egrep -v '^echo' \
272         | egrep -v '\.c:$' \
273         | egrep -v '^Adding file:' \
274         | egrep -v 'CLASSPATH=' \
275         | egrep -v '\var/mail/:saved' \
276         | egrep -v '--DUTS_VERSION=' \
277         | egrep -v '^Running Mkbootstrap' \
278         | egrep -v '^Applet length read:' \
279         | egrep -v 'bytes written:' \
280         | egrep -v '^File:SolarisAuthApplet.bin' \
281         | egrep -v -i 'jibversion' \
282         | egrep -v '^Output size:' \
283         | egrep -v '^Solo size statistics:' \
284         | egrep -v '^Using ROM API Version' \
285         | egrep -v '^Zero Signature length:' \
286         | egrep -v '^Note \ (probably harmless):' \
287         | egrep -v ':' \
```



```

288 | egrep -v -- '-xcache' \
288 | egrep -v '^\' \
290 | egrep -v '^ccl: note: -fwritable-strings' \
289 | egrep -v 'svccfg-native -s svc:/' \
290 | sort | uniq >${SRC}/${NOISE}.out
291 if [ ! -f ${SRC}/${NOISE}.ref ]; then
292   cp ${SRC}/${NOISE}.out ${SRC}/${NOISE}.ref
293 fi
294 echo "\n=== Build noise differences ($LABEL) ===\n" \
295   >> $mail_msg_file
296 diff ${SRC}/${NOISE}.ref ${SRC}/${NOISE}.out >> $mail_msg_file
297 fi

299 #
300 #   Re-sign selected binaries using signing server
301 #   (gatekeeper builds only)
302 #
303 if [ -n "$CODESIGN_USER" -a "$this_build_ok" = "y" ]; then
304   echo "\n=== Signing proto area at 'date' ===\n" >> $LOGFILE
305   signing_file="${TMPDIR}/signing"
306   rm -f ${signing_file}
307   export CODESIGN_USER
308   signproto ${SRC}/tools/codesign/creds 2>&1 | \
309     tee -a ${signing_file} >> $LOGFILE
310   echo "\n=== Finished signing proto area at 'date' ===\n" \
311     >> $LOGFILE
312   echo "\n=== Crypto module signing errors ($LABEL) ===\n" \
313     >> $mail_msg_file
314   egrep 'WARNING|ERROR' ${signing_file} >> $mail_msg_file
315   if (( $? == 0 )); then
316     build_ok=n
317     this_build_ok=n
318   fi
319 fi

321 #
322 #   Building Packages
323 #
324 if [ "$p_FLAG" = "y" -a "$this_build_ok" = "y" ]; then
325   if [ -d ${SRC}/pkg ]; then
326     echo "\n=== Creating $LABEL packages at 'date' ===\n"
327     >> $LOGFILE
328     echo "Clearing out $PKGARCHIVE ..." >> $LOGFILE
329     rm -rf $PKGARCHIVE >> "$LOGFILE" 2>&1
330     mkdir -p $PKGARCHIVE >> "$LOGFILE" 2>&1

332     rm -f ${SRC}/pkg/${INSTALLLOG}.out
333     cd ${SRC}/pkg
334     /bin/time $MAKE -e install 2>&1 | \
335     tee -a ${SRC}/pkg/${INSTALLLOG}.out >> $LOGFILE

337     echo "\n=== package build errors ($LABEL) ===\n" \
338     >> $mail_msg_file

340     egrep "${MAKE}|ERROR|WARNING" ${SRC}/pkg/${INSTALLLOG}.out
341     grep ':' | \
342     grep -v PSTAMP | \
343     egrep -v "Ignoring unknown host" | \
344     tee $TMPDIR/package >> $mail_msg_file
345     if [[ -s $TMPDIR/package ]]; then
346       build_extras_ok=n
347       this_build_ok=n
348     fi
349   else
350     #
351     # Handle it gracefully if -p was set but there so

```

```

352 # no pkg directory.
353 #
354 echo "\n=== No $LABEL packages to build ===\n" \
355   >> $LOGFILE
356 fi
357 else
358   echo "\n=== Not creating $LABEL packages ===\n" >> $LOGFILE
359 fi

361 ROOT=$ORIGROOT
362 }
unchanged_portion_omitted

```