

new/usr/src/Makefile.master

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*****
35221 Sat Jun 18 19:37:52 2016
new/usr/src/Makefile.master
7069 i386_XARCH should include -m32
*****
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29 #
30 #
31 #
32 # Makefile.master, global definitions for system source
33 #
34 ROOT=          /proto
35 #
36 #
37 # Adjunct root, containing an additional proto area to be used for headers
38 # and libraries.
39 #
40 ADJUNCT_PROTO=
41 #
42 #
43 # Adjunct for building things that run on the build machine.
44 #
45 NATIVE_ADJUNCT= /usr
46 #
47 #
48 # RELEASE_BUILD should be cleared for final release builds.
49 # NOT_RELEASE_BUILD is exactly what the name implies.
50 #
51 # __GNUC toggles the building of ON components using gcc and related tools.
52 # Normally set to '#', set it to '' to do gcc build.
53 #
54 # The declaration POUND_SIGN is always '#'. This is needed to get around the
55 # make feature that '#' is always a comment delimiter, even when escaped or
56 # quoted. We use this macro expansion method to get POUND_SIGN rather than
57 # always breaking out a shell because the general case can cause a noticeable
58 # slowdown in build times when so many Makefiles include Makefile.master.
59 #
60 # While the majority of users are expected to override the setting below
61 # with an env file (via nightly or bldenv), if you aren't building that way
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new/usr/src/Makefile.master

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62 # (ie, you're using "ws" or some other bootstrapping method) then you need
63 # this definition in order to avoid the subshell invocation mentioned above.
64 #
65 #
66 PRE_POUND=          pre\#
67 POUND_SIGN=         $(PRE_POUND:pre\%=%)
68 #
69 NOT_RELEASE_BUILD=
70 RELEASE_BUILD=      $(POUND_SIGN)
71 $(RELEASE_BUILD)NOT_RELEASE_BUILD= $(POUND_SIGN)
72 PATCH_BUILD=       $(POUND_SIGN)
73 #
74 # SPARC_BLD is '#' for an Intel build.
75 # INTEL_BLD is '#' for a Sparc build.
76 SPARC_BLD_1=       $(MACH:i386=$(POUND_SIGN))
77 SPARC_BLD=         $(SPARC_BLD_1:sparc=)
78 INTEL_BLD_1=       $(MACH:sparc=$(POUND_SIGN))
79 INTEL_BLD=         $(INTEL_BLD_1:i386=)
80 #
81 # The variables below control the compilers used during the build.
82 # There are a number of permutations.
83 #
84 # __GNUC and __SUNC control (and indicate) the primary compiler. Whichever
85 # one is not POUND_SIGN is the primary, with the other as the shadow. They
86 # may also be used to control entirely compiler-specific Makefile assignments.
87 # __GNUC and GCC are the default.
88 #
89 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
90 # There is no Sun C analogue.
91 #
92 # The following version-specific options are operative regardless of which
93 # compiler is primary, and control the versions of the given compilers to be
94 # used. They also allow compiler-version specific Makefile fragments.
95 #
96 #
97 __SUNC=              $(POUND_SIGN)
98 $(__SUNC)__GNUC=    $(POUND_SIGN)
99 __GNUC64=           $(__GNUC)
100 #
101 # Allow build-time "configuration" to enable or disable some things.
102 # The default is POUND_SIGN, meaning "not enabled". If the environment
103 # passes in an override like ENABLE_SMB_PRINTING= (empty) that will
104 # uncomment things in the lower Makefiles to enable the feature.
105 ENABLE_IPP_PRINTING= $(POUND_SIGN)
106 ENABLE_SMB_PRINTING= $(POUND_SIGN)
107 #
108 # CLOSED is the root of the tree that contains source which isn't released
109 # as open source
110 CLOSED=             $(SRC)/../closed
111 #
112 # BUILD_TOOLS is the root of all tools including compilers.
113 # ONBLD_TOOLS is the root of all the tools that are part of SUNWonbld.
114 #
115 BUILD_TOOLS=        /ws/onnv-tools
116 ONBLD_TOOLS=        $(BUILD_TOOLS)/onbld
117 #
118 # define runtime JAVA_HOME, primarily for cmd/pools/poold
119 JAVA_HOME=          /usr/java
120 # define buildtime JAVA_ROOT
121 JAVA_ROOT=          /usr/java
122 #
123 GCC_ROOT=           /opt/gcc/4.4.4
124 GCCLIBDIR=         $(GCC_ROOT)/lib
125 GCCLIBDIR64=       $(GCC_ROOT)/lib/$(MACH64)
126 #
127 DOCBOK_XSL_ROOT=    /usr/share/sgml/docbook/xsl-stylesheets
```

```

129 RPCGEN=      /usr/bin/rpcgen
130 STABS=       $(ONBLD_TOOLS)/bin/$(MACH)/stabs
131 ELFEXTRACT=  $(ONBLD_TOOLS)/bin/$(MACH)/elfextract
132 MBH_PATCH=   $(ONBLD_TOOLS)/bin/$(MACH)/mbh_patch
133 ECHO=        echo
134 INS=         install
135 TRUE=        true
136 SYMLINK=     /usr/bin/ln -s
137 LN=         /usr/bin/ln
138 CHMOD=      /usr/bin/chmod
139 MV=         /usr/bin/mv -f
140 RM=         /usr/bin/rm -f
141 CUT=        /usr/bin/cut
142 NM=         /usr/ccs/bin/nm
143 DIFF=       /usr/bin/diff
144 GREP=       /usr/bin/grep
145 EGREP=      /usr/bin/egrep
146 ELFWRAP=    /usr/bin/elfwrap
147 KSH93=     /usr/bin/ksh93
148 SED=        /usr/bin/sed
149 AWK=        /usr/bin/nawk
150 CP=         /usr/bin/cp -f
151 MCS=        /usr/ccs/bin/mcs
152 CAT=        /usr/bin/cat
153 ELFDUMP=    /usr/ccs/bin/elfdump
154 M4=         /usr/bin/m4
155 STRIP=      /usr/ccs/bin/strip
156 LEX=        /usr/ccs/bin/lex
157 FLEX=       /usr/bin/flex
158 YACC=       /usr/ccs/bin/yacc
159 CPP=        /usr/lib/cpp
160 JAVAC=      $(JAVA_ROOT)/bin/javac
161 JAVAH=      $(JAVA_ROOT)/bin/javah
162 JAVADOC=   $(JAVA_ROOT)/bin/javadoc
163 RMIC=       $(JAVA_ROOT)/bin/rmic
164 JAR=        $(JAVA_ROOT)/bin/jar
165 CTFCONVERT= $(ONBLD_TOOLS)/bin/$(MACH)/ctfconvert
166 CTFMERGE=   $(ONBLD_TOOLS)/bin/$(MACH)/ctfmerge
167 CTFSTABS=   $(ONBLD_TOOLS)/bin/$(MACH)/ctfstabs
168 CTFSTRIP=   $(ONBLD_TOOLS)/bin/$(MACH)/ctfstrip
169 NDRGEN=     $(ONBLD_TOOLS)/bin/$(MACH)/ndrgen
170 GENOFFSETS= $(ONBLD_TOOLS)/bin/genoffsets
171 XREF=       $(ONBLD_TOOLS)/bin/xref
172 FIND=      /usr/bin/find
173 PERL=      /usr/bin/perl
174 PERL_VERSION= 5.10.0
175 PERL_PKGVERS= -510
176 PERL_ARCH =      i86pc-solaris-64int
177 $(SPARC_BLD)PERL_ARCH = sun4-solaris-64int
178 PYTHON_26=    /usr/bin/python2.6
179 PYTHON=      $(PYTHON_26)
180 SORT=        /usr/bin/sort
181 TOUCH=      /usr/bin/touch
182 WC=         /usr/bin/wc
183 XARGS=       /usr/bin/xargs
184 ELFEDIT=     /usr/bin/elfedit
185 ELFSIGN=    /usr/bin/elfsign
186 DTRACE=     /usr/sbin/dtrace -xnolib
187 UNIQ=       /usr/bin/uniq
188 TAR=        /usr/bin/tar
189 ASTBINDIR=  /usr/ast/bin
190 MSGCC=      $(ASTBINDIR)/msgcc
191 MSGFMT=     /usr/bin/msgfmt -s

193 FILEMODE=   644

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194 DIRMODE=    755

196 # Declare that nothing should be built in parallel.
197 # Individual Makefiles can use the .PARALLEL target to declare otherwise.
198 .NO_PARALLEL:

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

211 DOT_H_CHECK= \
212     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL); \
213     $(HDRCHK) $< $(HDRCHK_TAIL)

215 DOT_X_CHECK= \
216     @$(ECHO) "checking $<"; $(RPCGEN) -C -h $< | $(CSTYLE) $(CSTYLE_TAIL); \
217     $(RPCGEN) -C -h $< | $(HDRCHK) $< $(HDRCHK_TAIL)

219 DOT_C_CHECK= \
220     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL)

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

229 INS.file=    $(RM) $@; $(INS) -s -m $(FILEMODE) -f $(@D) $<
230 INS.dir=     $(INS) -s -d -m $(DIRMODE) $@
231 # installs and renames at once
232 #
233 INS.rename=  $(INS.file); $(MV) $(@D)/$(<F) $@

235 # install a link
236 INSLINKTARGET= $<
237 INS.link=    $(RM) $@; $(LN) $(INSLINKTARGET) $@
238 INS.symlink= $(RM) $@; $(SYMLINK) $(INSLINKTARGET) $@

240 #
241 # Python bakes the mtime of the .py file into the compiled .pyc and
242 # rebuilds if the baked-in mtime != the mtime of the source file
243 # (rather than only if it's less than), thus when installing python
244 # files we must make certain to not adjust the mtime of the source
245 # (.py) file.
246 #
247 INS.pyfile=  $(INS.file); $(TOUCH) -r $< $@

249 # MACH must be set in the shell environment per uname -p on the build host
250 # More specific architecture variables should be set in lower makefiles.
251 #
252 # MACH64 is derived from MACH, and BUILD64 is set to '#' for
253 # architectures on which we do not build 64-bit versions.
254 # (There are no such architectures at the moment.)
255 #
256 # Set BUILD64=# in the environment to disable 64-bit amd64
257 # builds on i386 machines.

259 MACH64_1=    $(MACH:sparc=sparcv9)

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260 MACH64=          $(MACH64_1:i386=amd64)
262 MACH32_1=        $(MACH:sparc=sparcv7)
263 MACH32=          $(MACH32_1:i386=i86)

265 sparc_BUILD64=
266 i386_BUILD64=
267 BUILD64=         $$($(MACH)_BUILD64)

269 #
270 # C compiler mode. Future compilers may change the default on us,
271 # so force extended ANSI mode globally. Lower level makefiles can
272 # override this by setting CCMODE.
273 #
274 CCMODE=           -Xa
275 CCMODE64=        -Xa

277 #
278 # C compiler verbose mode. This is so we can enable it globally,
279 # but turn it off in the lower level makefiles of things we cannot
280 # (or aren't going to) fix.
281 #
282 CCVERBOSE=       -v

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

288 # set this to the secret flag "-Wc,-Qiselect-regsymb=0" to disable register
289 # symbols (used to detect conflicts between objects that use global registers)
290 # we disable this now for safety, and because genunix doesn't link with
291 # this feature (the v9 default) enabled.
292 #
293 REGSYM is separate since the C++ driver syntax is different.
294 CCREGSYM=         -Wc,-Qiselect-regsymb=0
295 CCCREGSYM=       -Qoption cg -Qiselect-regsymb=0

297 # Prevent the removal of static symbols by the SPARC code generator (cg).
298 # The x86 code generator (ube) does not remove such symbols and as such
299 # using this workaround is not applicable for x86.
300 #
301 CCSTATICSYM=     -Wc,-Qassembler-ounrefsymb=0
302 #
303 # generate 32-bit addresses in the v9 kernel. Saves memory.
304 CCABS32=         -Wc,-xcode=abs32
305 #
306 # generate v9 code which tolerates callers using the v7 ABI, for the sake of
307 # system calls.
308 CC32BITCALLERS=  -_gcc=-massume-32bit-callers

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

319 # One optimization the compiler might perform is to turn this:
320 #   #pragma weak foo
321 #   extern int foo;
322 #   if (&foo)
323 #       foo = 5;
324 # into
325 #   foo = 5;

```

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326 # Since we do some of this (foo might be referenced in common kernel code
327 # but provided only for some cpu modules or platforms), we disable this
328 # optimization.
329 #
330 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
331 i386_CCUNBOUND =
332 CCUNBOUND       = $$($(MACH)_CCUNBOUND)

334 #
335 # compiler '-xarch' flag. This is here to centralize it and make it
336 # overridable for testing.
337 sparc_XARCH=     -m32
338 sparcv9_XARCH=  -m64
339 i386_XARCH=      -m32
339 i386_XARCH=      -m32
339 i386_XARCH=
340 amd64_XARCH=     -m64 -Ui386 -U_i386

342 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
343 sparc_AS_XARCH=  -xarch=v8plus
344 sparcv9_AS_XARCH= -xarch=v9
345 i386_AS_XARCH=
346 amd64_AS_XARCH=  -xarch=amd64 -P -Ui386 -U_i386

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

363 SAVEARGS=        -Wu,-save_args
364 amd64_STAND_FLAGS += $(SAVEARGS)

366 STAND_FLAGS_32 = $$($(MACH)_STAND_FLAGS)
367 STAND_FLAGS_64 = $$($(MACH64)_STAND_FLAGS)

369 #
370 # disable the incremental linker
371 ILDOFF=          -xildoff
372 #
373 XDEPEND=         -xdepend
374 XFFLAG=          -xF=%all
375 XESS=            -xs
376 XSTRCONST=      -xstrconst

378 #
379 # turn warnings into errors (C)
380 CERRWARN = -errtags=yes -errwarn=all
381 CERRWARN += -erroff=E_EMPTY_TRANSLATION_UNIT
382 CERRWARN += -erroff=E_STATEMENT_NOT_REACHED

384 CERRWARN += -_gcc=-Wno-missing-braces
385 CERRWARN += -_gcc=-Wno-sign-compare
386 CERRWARN += -_gcc=-Wno-unknown-pragmas
387 CERRWARN += -_gcc=-Wno-unused-parameter
388 CERRWARN += -_gcc=-Wno-missing-field-initializers

390 # Unfortunately, this option can misfire very easily and unfixably.

```

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391 CERRWARN +=      _gcc=-Wno-array-bounds

393 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
394 # -nd builds
395 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-unused
396 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-empty-body

398 #
399 # turn warnings into errors (C++)
400 CCERRWARN=        -xwe

402 # C99 mode
403 C99_ENABLE=       -xc99=%all
404 C99_DISABLE=     -xc99=%none
405 C99MODE=         $(C99_DISABLE)
406 C99LMODE=        $(C99MODE:-xc99%=-Xc99%)

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

416 sparc_ASFLAGS=   $(sparc_AS_XARCH)
417 sparcv9_ASFLAGS=$(sparcv9_AS_XARCH)
418 i386_ASFLAGS=    $(i386_AS_XARCH)
419 amd64_ASFLAGS=   $(amd64_AS_XARCH)

421 #
422 sparc_COPTFLAG=  -xO3
423 sparcv9_COPTFLAG=-xO3
424 i386_COPTFLAG=  -O
425 amd64_COPTFLAG= -xO3

427 COPTFLAG=       $($(MACH)_COPTFLAG)
428 COPTFLAG64=    $($(MACH64)_COPTFLAG)

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

434 # Direct the Sun Studio compiler to use a static globalization prefix based on t
435 # name of the module rather than something unique. Otherwise, objects
436 # will not build deterministically, as subsequent compilations of identical
437 # source will yeild objects that always look different.
438 #
439 # In the same spirit, this will also remove the date from the N_OPT stab.
440 CGLOBALSTATIC= -W0,-xglobalstatic

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

446 #
447 # Default debug format for Sun Studio 11 is dwarf, so force it to
448 # generate stabs.
449 #
450 DEBUGFORMAT=    -xdebugformat=stabs

452 #
453 # Flags used to build in debug mode for ctf generation.  Bugs in the Devpro
454 # compilers currently prevent us from building with cc-emitted DWARF.
455 #
456 CTF_FLAGS_sparc = -g -Wc,-Qiselect-T1 $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)

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457 CTF_FLAGS_i386  = -g $(C99MODE) $(CNOGLOBAL) $(CDWARFSTR)

459 CTF_FLAGS_sparcv9 = $(CTF_FLAGS_sparc)
460 CTF_FLAGS_amd64  = $(CTF_FLAGS_i386)

462 # Sun Studio produces broken userland code when saving arguments.
463 $(__GNUCC)CTF_FLAGS_amd64 += $(SAVEARGS)

465 CTF_FLAGS_32     = $(CTF_FLAGS_$(MACH)) $(DEBUGFORMAT)
466 CTF_FLAGS_64     = $(CTF_FLAGS_$(MACH64)) $(DEBUGFORMAT)
467 CTF_FLAGS        = $(CTF_FLAGS_32)

469 #
470 # Flags used with genoffsets
471 #
472 GOFLAGS = -_noecho \
473           $(CALLSYMS) \
474           $(CDWARFSTR)

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

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

482 #
483 # tradeoff time for space (smaller is better)
484 #
485 sparc_SPACEFLAG      = -xspace -W0,-Lt
486 sparcv9_SPACEFLAG   = -xspace -W0,-Lt
487 i386_SPACEFLAG       = -xspace
488 amd64_SPACEFLAG      =

490 SPACEFLAG           = $($(MACH)_SPACEFLAG)
491 SPACEFLAG64         = $($(MACH64)_SPACEFLAG)

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

503 IROPTFLAG           = $($(MACH)_IROPTFLAG)
504 IROPTFLAG64         = $($(MACH64)_IROPTFLAG)

506 sparc_XREGSFLAG     = -xregs=no%appl
507 sparcv9_XREGSFLAG   = -xregs=no%appl
508 i386_XREGSFLAG      =
509 amd64_XREGSFLAG     =

511 XREGSFLAG           = $($(MACH)_XREGSFLAG)
512 XREGSFLAG64        = $($(MACH64)_XREGSFLAG)

514 # dmake SOURCEDEBUG=yes ... enables source-level debugging information, and
515 # avoids stripping it.
516 SOURCEDEBUG         = $(POUND_SIGN)
517 SRCDBGBLD          = $(SOURCEDEBUG:yes=)

519 #
520 # These variables are intended ONLY for use by developers to safely pass extra
521 # flags to the compilers without unintentionally overriding Makefile-set
522 # flags.  They should NEVER be set to any value in a Makefile.

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523 #
524 # They come last in the associated FLAGS variable such that they can
525 # explicitly override things if necessary, there are gaps in this, but it's
526 # the best we can manage.
527 #
528 CUSERFLAGS =
529 CUSERFLAGS64 = $(CUSERFLAGS)
530 CCUSERFLAGS =
531 CCUSERFLAGS64 = $(CCUSERFLAGS)

533 CSOURCEDEBUGFLAGS =
534 CCSOURCEDEBUGFLAGS =
535 $(SRCDGBLD)CSOURCEDEBUGFLAGS = -g -xs
536 $(SRCDGBLD)CCSOURCEDEBUGFLAGS = -g -xs

538 CFLAGS= $(COPTFLAG) $($ (MACH)_CFLAGS) $(SPACEFLAG) $(CCMODE) \
539 $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG) \
540 $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
541 $(CUSERFLAGS)
542 CFLAGS64= $(COPTFLAG64) $($ (MACH64)_CFLAGS) $(SPACEFLAG64) $(CCMODE64) \
543 $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG64) \
544 $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
545 $(CUSERFLAGS64)
546 #
547 # Flags that are used to build parts of the code that are subsequently
548 # run on the build machine (also known as the NATIVE_BUILD).
549 #
550 NATIVE_CFLAGS= $(COPTFLAG) $($ (NATIVE_MACH)_CFLAGS) $(CCMODE) \
551 $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCNOAUTOINLINE) \
552 $(IROPTFLAG) $(CGLOBALSTATIC) $(CCNOAUTOINLINE) \
553 $(CSOURCEDEBUGFLAGS) $(CUSERFLAGS)

555 DTEXTDOM=-DTEXT_DOMAIN="\$(TEXT_DOMAIN)" # For messaging.
556 DTS_ERRNO=-D_TS_ERRNO
557 CPPFLAGS.first= # Please keep empty. Only lower makefiles should set this.
558 CPPFLAGS.master=$(DTEXTDOM) $(DTS_ERRNO) \
559 $(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) $(ENVCPPFLAGS4) \
560 $(ADJUNCT_PROTO:%=-I%/usr/include)
561 CPPFLAGS.native=$(ENVCPPFLAGS1) $(ENVCPPFLAGS2) $(ENVCPPFLAGS3) \
562 $(ENVCPPFLAGS4) -I$(NATIVE_ADJUNCT)/include
563 CPPFLAGS= $(CPPFLAGS.first) $(CPPFLAGS.master)
564 AS_CPPFLAGS= $(CPPFLAGS.first) $(CPPFLAGS.master)
565 JAVAFLAGS= -source 1.6 -target 1.6 -Xlint:deprecation,-options

567 #
568 # For source message catalogue
569 #
570 .SUFFIXES: $(SUFFIXES) .i .po
571 MSGROOT= $(ROOT)/catalog
572 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)
573 MSGDOMAINPOFILE = $(MSGDOMAIN)/$(POFILE)
574 DCMSGDOMAIN= $(MSGROOT)/LC_TIME/$(TEXT_DOMAIN)
575 DCMSGDOMAINPOFILE = $(DCMSGDOMAIN)/$(DCFILE:.dc=.po)

577 CLOBBERFILES += $(POFILE) $(POFILES)
578 COMPILE.cpp= $(CC) -E -C $(CFLAGS) $(CPPFLAGS)
579 XGETTEXT= /usr/bin/xgettext
580 XGETTEXTFLAGS= -c TRANSLATION_NOTE
581 GNUXGETTEXT= /usr/gnu/bin/xgettext
582 GNUXGETTEXTFLAGS= --add-comments=TRANSLATION_NOTE --keyword= \
583 --strict --no-location --omit-header
584 BUILD.po= $(XGETTEXT) $(XGETTEXTFLAGS) -d $(<F) $(<i ; \
585 $(RM) $@ ; \
586 $(SED) "/^domain/d" < $(<F).po > $@ ; \
587 $(RM) $(<F).po $(<i
```

```

589 #
590 # This is overwritten by local Makefile when PROG is a list.
591 #
592 POFILE= $(PROG).po

594 sparc_CCFLAGS= -cg92 -compat=4 \
595 -Qoption ccfe -messages=no%anachronism \
596 $(CCERRWARN)
597 sparcv9_CCFLAGS= $(sparcv9_XARCH) -dalign -compat=5 \
598 -Qoption ccfe -messages=no%anachronism \
599 -Qoption ccfe -features=no%conststrings \
600 $(CCREGSYM) \
601 $(CCERRWARN)
602 i386_CCFLAGS= -compat=4 \
603 -Qoption ccfe -messages=no%anachronism \
604 -Qoption ccfe -features=no%conststrings \
605 $(CCERRWARN)
606 amd64_CCFLAGS= $(amd64_XARCH) -compat=5 \
607 -Qoption ccfe -messages=no%anachronism \
608 -Qoption ccfe -features=no%conststrings \
609 $(CCERRWARN)

611 sparc_CCOPTFLAG= -O
612 sparcv9_CCOPTFLAG= -O
613 i386_CCOPTFLAG= -O
614 amd64_CCOPTFLAG= -O

616 CCOPTFLAG= $($ (MACH)_CCOPTFLAG)
617 CCOPTFLAG64= $($ (MACH64)_CCOPTFLAG)
618 CCFLAGS= $(CCOPTFLAG) $($ (MACH)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
619 $(CUSERFLAGS)
620 CCFLAGS64= $(CCOPTFLAG64) $($ (MACH64)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
621 $(CCUSERFLAGS64)

623 #
624 #
625 #
626 ELFWRAP_FLAGS =
627 ELFWRAP_FLAGS64 = -64

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

641 #
642 # Generated mapfiles that are compiler specific, and used throughout the
643 # build. These mapfiles are not delivered in /usr/lib/ld.
644 #
645 MAPFILE.NGB_sparc= $(SRC)/common/mapfiles/gen/sparc_cc_map.noexglobs
646 $(__GNU64)MAPFILE.NGB_sparc= \
647 $(SRC)/common/mapfiles/gen/sparc_cc_map.noexglobs
648 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexglobs
649 $(__GNU64)MAPFILE.NGB_sparcv9= \
650 $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexglobs
651 MAPFILE.NGB_i386= $(SRC)/common/mapfiles/gen/i386_cc_map.noexglobs
652 $(__GNU64)MAPFILE.NGB_i386= \
653 $(SRC)/common/mapfiles/gen/i386_cc_map.noexglobs
654 MAPFILE.NGB_amd64= $(SRC)/common/mapfiles/gen/amd64_cc_map.noexglobs
```

```

655 $(__GNUC64)MAPFILE.NGB_amd64= \
656 $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexeglobs
657 MAPFILE.NGB = $(MAPFILE.NGB_$(MACH))

659 #
660 # A generic interface mapfile name, used by various dynamic objects to define
661 # the interfaces and interposers the object must export.
662 #
663 MAPFILE.INT = mapfile-intf

665 #
666 # LDLIBS32 and LDLIBS64 can be set in the environment to override the following
667 # assignments.
668 #
669 # These environment settings make sure that no libraries are searched outside
670 # of the local workspace proto area:
671 # LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
672 # LDLIBS64=-YP,$ROOT/lib:$MACH64:$ROOT/usr/lib:$MACH64
673 #
674 LDLIBS32 = $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
675 LDLIBS32 += $(ADJUNCT_PROTO:%=-L%/usr/lib -L%/lib)
676 LDLIBS.cmd = $(LDLIBS32)
677 LDLIBS.lib = $(LDLIBS32)

679 LDLIBS64 = $(ENVLDLIBS1:%=/%$(MACH64)) \
680 $(ENVLDLIBS2:%=/%$(MACH64)) \
681 $(ENVLDLIBS3:%=/%$(MACH64))
682 LDLIBS64 += $(ADJUNCT_PROTO:%=-L%/usr/lib/%$(MACH64) -L%/lib/%$(MACH64))

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

698 CLASSPATH= .
699 COMPILE.java= $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

701 #
702 # Link time macros
703 #
704 CCNEEDED = -lC
705 CCEXTNEEDED = -lCrun -lCstd
706 $(__GNUC)CCNEEDED = -L$(GCCLIBDIR) -lstc++ -lgcc_s
707 $(__GNUC)CCEXTNEEDED = $(CCNEEDED)

709 LINK.c= $(CC) $(CFLAGS) $(CPPFLAGS) $(LDFLAGS)
710 LINK64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) $(LDFLAGS)
711 NORUNPATH= -norunpath -nolib
712 LINK.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) $(NORUNPATH) \
713 $(LDFLAGS) $(CCNEEDED)
714 LINK64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) $(NORUNPATH) \
715 $(LDFLAGS) $(CCNEEDED)

717 #
718 # lint macros
719 #
720 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once

```

```

721 # ON is built with a version of lint that has the fix for 4484186.
722 #
723 ALWAYS_LINT_DEFS = -errtags=yes -s
724 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
725 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV
726 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME
727 ALWAYS_LINT_DEFS += $(C99LMODE)
728 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
729 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREAT_WITHOUT_EXCL
730 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
731 # XX64 -- really only needed for amd64 lint
732 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
733 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
734 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
735 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
736 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
737 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED
738 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
739 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

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

745 SECLEVEL= core
746 LINT.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS) $(CPPFLAGS) \
747 $(ALWAYS_LINT_DEFS)
748 LINT64.c= $(LINT) $(ONLY_LINT_DEFS) $(LINTFLAGS64) $(CPPFLAGS) \
749 $(ALWAYS_LINT_DEFS)
750 LINT.s= $(LINT.c)

752 # For some future builds, NATIVE_MACH and MACH might be different.
753 # Therefore, NATIVE_MACH needs to be redefined in the
754 # environment as 'uname -p' to override this macro.
755 #
756 # For now at least, we cross-compile amd64 on i386 machines.
757 NATIVE_MACH= $(MACH:amd64=i386)

759 # Define native compilation macros
760 #

762 # Base directory where compilers are loaded.
763 # Defined here so it can be overridden by developer.
764 #
765 SPRO_ROOT= $(BUILD_TOOLS)/SUNwspro
766 SPRO_VROOT= $(SPRO_ROOT)/SS12
767 GNU_ROOT= /usr

769 # Till SS12ul formally becomes the NV CBE, LINT is hard
770 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/
771 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
772 # i386_LINT, amd64_LINT.
773 # Reset them when SS12ul is rolled out.
774 #

776 # Specify platform compiler versions for languages
777 # that we use (currently only c and c++).
778 #
779 sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
780 $(__GNUC)sparc_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
781 sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
782 $(__GNUC)sparc_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
783 sparc_CPP= /usr/ccs/lib/cpp
784 sparc_AS= /usr/ccs/bin/as -xregsym=no
785 sparc_LD= /usr/ccs/bin/ld
786 sparc_LINT= $(SPRO_ROOT)/sunstudio12.1/bin/lint

```

```

788 sparcv9_CC=          $(ONBLD_TOOLS)/bin/$(MACH)/cw _cc
789 $(__GNUC64)sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw _gcc
790 sparcv9_CCC=         $(ONBLD_TOOLS)/bin/$(MACH)/cw _CC
791 $(__GNUC64)sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw _g++
792 sparcv9_CPP=         /usr/ccs/lib/cpp
793 sparcv9_AS=          /usr/ccs/bin/as -xregsym=no
794 sparcv9_LD=          /usr/ccs/bin/ld
795 sparcv9_LINT=        $(SPRO_ROOT)/sunstudio12.1/bin/lint

797 i386_CC=            $(ONBLD_TOOLS)/bin/$(MACH)/cw _cc
798 $(__GNUC) i386_CC=   $(ONBLD_TOOLS)/bin/$(MACH)/cw _gcc
799 i386_CCC=           $(ONBLD_TOOLS)/bin/$(MACH)/cw _CC
800 $(__GNUC) i386_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw _g++
801 i386_CPP=           /usr/ccs/lib/cpp
802 i386_AS=            /usr/ccs/bin/as
803 $(__GNUC) i386_AS=  $(ONBLD_TOOLS)/bin/$(MACH)/aw
804 i386_LD=            /usr/ccs/bin/ld
805 i386_LINT=          $(SPRO_ROOT)/sunstudio12.1/bin/lint

807 amd64_CC=           $(ONBLD_TOOLS)/bin/$(MACH)/cw _cc
808 $(__GNUC64)amd64_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw _gcc
809 amd64_CCC=          $(ONBLD_TOOLS)/bin/$(MACH)/cw _CC
810 $(__GNUC64)amd64_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw _g++
811 amd64_CPP=           /usr/ccs/lib/cpp
812 amd64_AS=            /usr/ccs/bin/as
813 amd64_LD=            /usr/ccs/bin/ld
814 amd64_LINT=          $(SPRO_ROOT)/sunstudio12.1/bin/lint

816 NATIVECC=           $( $(NATIVE_MACH)_CC )
817 NATIVECCC=           $( $(NATIVE_MACH)_CCC )
818 NATIVECPP=           $( $(NATIVE_MACH)_CPP )
819 NATIVEAS=            $( $(NATIVE_MACH)_AS )
820 NATIVELD=            $( $(NATIVE_MACH)_LD )
821 NATIVELINT=          $( $(NATIVE_MACH)_LINT )

823 #
824 # Makefile.master.64 overrides these settings
825 #
826 CC=                  $(NATIVECC)
827 CCC=                  $(NATIVECCC)
828 CPP=                  $(NATIVECPP)
829 AS=                   $(NATIVEAS)
830 LD=                   $(NATIVELD)
831 LINT=                 $(NATIVELINT)

833 # The real compilers used for this build
834 CW_CC_CMD=            $(CC) _compiler
835 CW_CCC_CMD=           $(CCC) _compiler
836 REAL_CC=              $(CW_CC_CMD:sh)
837 REAL_CCC=             $(CW_CCC_CMD:sh)

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

842 BDIRECT=             -Bdirect
843 BDYNAMIC=            -Bdynamic
844 BLOCAL=              -Blocal
845 BNODIRECT=           -Bnodirect
846 BREDUCE=             -Breduce
847 BSTATIC=             -Bstatic

849 ZDEFS=               -zdefs
850 ZDIRECT=             -zdirect
851 ZIGNORE=             -zignore
852 ZINITFIRST=         -zinitfirst

```

```

853 ZINTERPOSE=         -zinterpose
854 ZLAZYLOAD=          -zlazyload
855 ZLOADFLTR=          -zloadfltr
856 ZMULDEFS=           -zmuldefs
857 ZNODEFAULTLIB=      -znodefaultlib
858 ZNODEFS=            -znodefs
859 ZNODELETE=          -znodelete
860 ZNODLOPEN=          -znodlopen
861 ZNODUMP=            -znodump
862 ZNOLAZYLOAD=        -znolazyload
863 ZNOLDYNYSYM=        -znoldynsym
864 ZNORELOC=           -znoreloc
865 ZNOVERSION=         -znoverison
866 ZRECORD=            -zrecord
867 ZREDLOCSYM=         -zredlocsyzm
868 ZTEXT=              -ztext
869 ZVERBOSE=           -zverbose

871 GSHARED=             -G
872 CCMT=                -mt

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

877 sparc_C_PICFLAGS =   -K pic
878 sparcv9_C_PICFLAGS = -K pic
879 i386_C_PICFLAGS =    -K pic
880 amd64_C_PICFLAGS =   -K pic
881 C_PICFLAGS =         $( $(MACH)_C_PICFLAGS )
882 C_PICFLAGS64 =       $( $(MACH64)_C_PICFLAGS )

884 sparc_C_BIGPICFLAGS = -K PIC
885 sparcv9_C_BIGPICFLAGS = -K PIC
886 i386_C_BIGPICFLAGS = -K PIC
887 amd64_C_BIGPICFLAGS = -K PIC
888 C_BIGPICFLAGS =     $( $(MACH)_C_BIGPICFLAGS )
889 C_BIGPICFLAGS64 =   $( $(MACH64)_C_BIGPICFLAGS )

891 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
892 sparc_CC_PICFLAGS =  -Kpic
893 sparcv9_CC_PICFLAGS = -Kpic
894 i386_CC_PICFLAGS =   -Kpic
895 amd64_CC_PICFLAGS =  -Kpic
896 CC_PICFLAGS =       $( $(MACH)_CC_PICFLAGS )
897 CC_PICFLAGS64 =     $( $(MACH64)_CC_PICFLAGS )

899 AS_PICFLAGS=         $(C_PICFLAGS)
900 AS_BIGPICFLAGS=      $(C_BIGPICFLAGS)

902 #
903 # Default label for CTF sections
904 #
905 CTFCVTFLAGS=         -i -L VERSION

907 #
908 # Override to pass module-specific flags to ctmerge. Currently used only by
909 # krtld to turn on fuzzy matching, and source-level debugging to inhibit
910 # stripping.
911 #
912 CTFMRGFLAGS=

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

916 ELFSIGN_O=           $(TRUE)
917 ELFSIGN_CRYPT=       $(ELFSIGN_O)
918 ELFSIGN_OBJECT=      $(ELFSIGN_O)

```

```

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

```

```

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

```



```

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

1064 .bin.o:
1065     $(COMPILE.b) -o $@ $<
1066     $(POST_PROCESS_O)

1068 .java.class:
1069     $(COMPILE.java) $<

1071 # Bourne and Korn shell script message catalog build rules.
1072 # We extract all gettext strings with sed(1) (being careful to permit
1073 # multiple gettext strings on the same line), weed out the dups, and
1074 # build the catalogue with awk(1).

1076 .sh.po .ksh.po:
1077     $(SED) -n -e ":a" \
1078     -e "h" \
1079     -e "s/.*gettext *\([^\"]*\)\.*/\1/p" \
1080     -e "x" \
1081     -e "s/\(.*\)gettext *\([^\"]*\)\(.*\)/\1\2/" \
1082     -e "t a" \
1083     $< | sort -u | $(AWK) '{ print "msgid\t" $$0 "\nmsgstr" }' > $@

1085 #
1086 # Python and Perl executable and message catalog build rules.
1087 #
1088 .SUFFIXES: .pl .pm .py .pyc

1090 .pl:
1091     $(RM) $@;
1092     $(SED) -e "s@TEXT_DOMAIN@"$(TEXT_DOMAIN)@" $< > $@;
1093     $(CHMOD) +x $@

1095 .py:
1096     $(RM) $@; $(CAT) $< > $@; $(CHMOD) +x $@

1098 .py.pyc:
1099     $(RM) $@
1100     $(PYTHON) -mpy_compile $<
1101     @[ $(<)c = $@ ] || $(MV) $(<)c $@

1103 .py.po:
1104     $(GNUXGETTEXT) $(GNUXGETTEXTFLAGS) -d $(<F:%.py=%) $< ;

1106 .pl.po .pm.po:
1107     $(XGETTEXT) $(XGETTEXTFLAGS) -d $(<F) $< ;
1108     $(RM) $@ ;
1109     $(SED) "/^domain/d" < $(<F).po > $@ ;
1110     $(RM) $(<F).po

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

```

```

1117 #
1118 CPPFORPO=$(COMPILE.cpp:"$(TEXT_DOMAIN)"=TEXT_DOMAIN)

1120 .c.i:
1121     $(CPPFORPO) $< > $@

1123 .h.i:
1124     $(CPPFORPO) $< > $@

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

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

1136 .c.po:
1137     $(CPPFORPO) $< > $<.i
1138     $(BUILD.po)

1140 .cc.po:
1141     $(CPPFORPO) $< > $<.i
1142     $(BUILD.po)

1144 .y.po:
1145     $(YACC) -d $<
1146     $(CPPFORPO) y.tab.c > $<.i
1147     $(BUILD.po)
1148     $(RM) y.tab.c

1150 .l.po:
1151     $(LEX) $<
1152     $(CPPFORPO) lex.yy.c > $<.i
1153     $(BUILD.po)
1154     $(RM) lex.yy.c

1156 #
1157 # Rules to perform stylistic checks
1158 #
1159 .SUFFIXES: .x .xml .check .xmlchk

1161 .h.check:
1162     $(DOT_H_CHECK)

1164 .x.check:
1165     $(DOT_X_CHECK)

1167 .xml.xmlchk:
1168     $(MANIFEST_CHECK)

1170 #
1171 # Include rules to render automated sccs get rules "safe".
1172 #
1173 include $(SRC)/Makefile.noget

```

new/usr/src/cmd/cmd-inet/usr.bin/dns-sd/Makefile

1

\*\*\*\*\*

957 Sat Jun 18 19:37:54 2016

new/usr/src/cmd/cmd-inet/usr.bin/dns-sd/Makefile

7120 mDNS resync was not wsdiff safe

\*\*\*\*\*

```
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
```

```
12 #
13 # Copyright 2016 Toomas Soome <tsoome@me.com>
14 #
```

```
16 # cmd/cmd-inet/usr.bin/dns-sd/Makefile
```

```
18 PROG=          dns-sd
```

```
20 include ../../Makefile.cmd
21 include ../../Makefile.cmd-inet
```

```
23 OBJS=          ClientCommon.o dns-sd.o
24 SRCS=          ClientCommon.c dns-sd.c
```

```
26 CFLAGS += $(C99_ENABLE)
27 CPPFLAGS += -DMDNS_VERSIONSTR_NODTS
28 #endif /* !codereview */
29 LDLIBS += -lsocket -ldns_sd
```

```
31 .KEEP_STATE:
```

```
33 all: $(PROG)
```

```
35 ROOTPROG=     $(PROG:%=$(ROOTBIN)/%)
```

```
37 $(PROG): $(OBJS)
38     $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
39     $(POST_PROCESS)
```

```
41 install: all $(ROOTPROG)
```

```
43 clean:
44     $(RM) $(OBJS)
```

```
46 lint: lint_SRCS
```

```
48 include ../../Makefile.targ
```

```
new/usr/src/cmd/cmd-inet/usr.bin/dns-sd/dns-sd.c
```

1

```
*****
```

```
75742 Sat Jun 18 19:37:55 2016
```

```
new/usr/src/cmd/cmd-inet/usr.bin/dns-sd/dns-sd.c
```

```
7120 mDNS resync was not wsdiff safe
```

```
*****
```

```
_____unchanged_portion_omitted_____
```

```
1806 // Note: The C preprocessor stringify operator ('#') makes a string from its arg
1807 // e.g. If "version" is #define'd to be "4", then STRINGIFY_AWE(version) will re
1808 // To expand "version" to its value before making the string, use STRINGIFY(vers
1809 #define STRINGIFY_ARGUMENT_WITHOUT_EXPANSION(s) # s
1810 #define STRINGIFY(s) STRINGIFY_ARGUMENT_WITHOUT_EXPANSION(s)
```

```
1812 // NOT static -- otherwise the compiler may optimize it out
1813 // The "@(#)" pattern is a special prefix the "what" command looks for
1814 #ifndef MDNS_VERSIONSTR_NODTS
1815 #endif /* ! codereview */
1816 const char VersionString_SCCS[] = "@(#) dns-sd " STRINGIFY(mDNSResponderVersion)
1817 #else
1818 const char VersionString_SCCS[] = "@(#) dns-sd " STRINGIFY(mDNSResponderVersion)
1819 #endif
1820 #endif /* ! codereview */
```

```
1822 #if BUILDING_XCODE_PROJECT_
1823 // If the process crashes, then this string will be magically included in the au
1824 const char *__crashreporter_info__ = VersionString_SCCS + 5;
1825 asm (".desc __crashreporter_info__, 0x10");
1826 #endif
```

new/usr/src/lib/libdns\_sd/Makefile.com

1

```
*****
1420 Sat Jun 18 19:37:56 2016
new/usr/src/lib/libdns_sd/Makefile.com
7120 mDNS resync was not wsdiff safe
*****
1 #
2 # CDDL HEADER START
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9 # or http://www.opensolaris.org/os/licensing.
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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 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
22 # Use is subject to license terms.
23 # Copyright 2016 Toomas Soome <tsoome@me.com>
24 #

26 LIBRARY =      libdns_sd.a
27 VERS =        .1
28 OBJECTS =      dnssd_clientlib.o dnssd_clientstub.o dnssd_ipc.o

30 include ../../Makefile.lib

32 LIBS =         $(DYNLIB) $(LINTLIB)
33 $(LINTLIB):=   SRCS = $(SRCDIR)/$(LINTSRC)

35 SRCDIR =      ../common

37 LDLIBS +=     -lsocket -lnsl -lc

39 C99MODE =     $(C99_ENABLE)
40 CPPFLAGS +=   -I$(SRCDIR) -DNOT_HAVE_SA_LEN -D_XPG4_2 -D__EXTENSIONS__
41 CPPFLAGS +=   -DMDNS_VERSIONSTR_NODTS
42 #endif /* ! codereview */

44 .PARALLEL =   $(OBJECTS)
45 .KEEP_STATE:

47 lint: lintcheck

49 all: $(LIBS)

51 include ../../Makefile.targ
```

new/usr/src/lib/libdns\_sd/common/dnssd\_clientlib.c

1

\*\*\*\*\*

12660 Sat Jun 18 19:37:57 2016

new/usr/src/lib/libdns\_sd/common/dnssd\_clientlib.c

7120 mDNS resync was not wsdiff safe

\*\*\*\*\*

unchanged portion omitted

```
350 /*****
351 *
352 *   SCCS-compatible version string
353 *
354 *****/
356 // For convenience when using the "strings" command, this is the last thing in t
358 // Note: The C preprocessor stringify operator ('#') makes a string from its arg
359 // e.g. If "version" is #define'd to be "4", then STRINGIFY_AWE(version) will re
360 // To expand "version" to its value before making the string, use STRINGIFY(vers
361 #define STRINGIFY_ARGUMENT_WITHOUT_EXPANSION(s) # s
362 #define STRINGIFY(s) STRINGIFY_ARGUMENT_WITHOUT_EXPANSION(s)
364 // NOT static -- otherwise the compiler may optimize it out
365 // The "@(#)" pattern is a special prefix the "what" command looks for
366 #ifndef MDNS_VERSIONSTR_NODTS
367 #endif /* ! codereview */
368 const char VersionString_SCCS_libdnssd[] = "@(#) libdns_sd " STRINGIFY(mDNSRespo
369 #else
370 const char VersionString_SCCS_libdnssd[] = "@(#) libdns_sd " STRINGIFY(mDNSRespo
371 #endif
372 #endif /* ! codereview */
```

new/usr/src/lib/libdns\_sd/java/Makefile.com

1

\*\*\*\*\*

1434 Sat Jun 18 19:37:58 2016

new/usr/src/lib/libdns\_sd/java/Makefile.com

7120 mDNS resync was not wsdiff safe

\*\*\*\*\*

```
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11 # and limitations under the 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 2007 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #ident "%Z%M% %I% %E% SMI"

26 LIBRARY= libjdns_sd.a
27 VERS= .1

29 OBJECTS= JNISupport.o

31 include $(SRC)/lib/Makefile.lib

33 LIBS = $(DYNLIB)

35 SRCDIR = ../common

37 C99MODE = $(C99_ENABLE)
38 CPPFLAGS += -I$(JAVA_ROOT)/include -I$(JAVA_ROOT)/include/solaris
39 CPPFLAGS += -I../com/apple/dnssd
40 CPPFLAGS += -D_REENTRANT
41 CPPFLAGS += -DMDNS_VERSIONSTR_NODTS
42 #endif /* ! codereview */

44 LDLIBS += -lc -lsocket -ldns_sd

46 CLEANFILES= $(LINTOUT) $(LINTLIB)

48 LINTLIB =

50 .KEEP_STATE:

52 lint: lintcheck

54 include $(SRC)/lib/Makefile.targ

56 pics/%.o: ../common/%.c
57 $(COMPILE.c) -o $@ $<
58 $(POST_PROCESS_O)
```

```
new/usr/src/lib/libdns_sd/java/common/JNISupport.c
```

1

```
*****
```

```
42357 Sat Jun 18 19:37:59 2016
```

```
new/usr/src/lib/libdns_sd/java/common/JNISupport.c
```

```
7120 mDNS resync was not wsdiff safe
```

```
*****
```

```
_____unchanged_portion_omitted_
```

```
1061 #endif
```

```
1064 // Note: The C preprocessor stringify operator ('#') makes a string from its arg
1065 // e.g. If "version" is #define'd to be "4", then STRINGIFY_AWE(version) will re
1066 // To expand "version" to its value before making the string, use STRINGIFY(vers
1067 #define STRINGIFY_ARGUMENT_WITHOUT_EXPANSION(s) # s
1068 #define STRINGIFY(s) STRINGIFY_ARGUMENT_WITHOUT_EXPANSION(s)
```

```
1070 // NOT static -- otherwise the compiler may optimize it out
1071 // The "@(#)" pattern is a special prefix the "what" command looks for
1072 #ifndef MDNS_VERSIONSTR_NODTS
1073 #endif /* ! codereview */
1074 const char VersionString_SCCS[] = "@(#) libjdns_sd " STRINGIFY(mDNSResponderVers
1075 #else
1076 const char VersionString_SCCS[] = "@(#) libjdns_sd " STRINGIFY(mDNSResponderVers
1077 #endif
1078 #endif /* ! codereview */
```

new/usr/src/lib/libfru/amd64/Makefile

1

\*\*\*\*\*

1242 Sat Jun 18 19:38:01 2016

new/usr/src/lib/libfru/amd64/Makefile

7069 i386\_XARCH should include -m32

\*\*\*\*\*

```
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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 #
25 #
26 #
27 # include common Makefiles
28 include ../Makefile.obj
29 include ../../Makefile.lib.64
30 include ../Makefile.flag
31 LDLIBS += -lc
31 LDLIBS += -lc -m64
32 LDLIBS += -L$(SRC)/lib/libfruutils/$(MACH64) -lfruutils
33 LDLIBS += -L$(SRC)/lib/libfru/libfrureg/$(MACH64) -lfrureg
34 #
35 install: all $(ROOTLIBDIR64) $(ROOTLINKSCC64)
36 #
37 $(ROOTLIBDIR64):
38     $(INS.dir)
39 #
40 include ../Makefile.targ
```



new/usr/src/lib/libfru/sparcv9/Makefile

1

\*\*\*\*\*

1272 Sat Jun 18 19:38:02 2016

new/usr/src/lib/libfru/sparcv9/Makefile

7069 i386\_XARCH should include -m32

\*\*\*\*\*

```
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21 #
22 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # lib/libfru/sparcv9/Makefile
26 #

28 # include common Makefiles
29 include ../Makefile.obj
30 include ../../Makefile.lib.64
31 include ../Makefile.flag
32 LDLIBS += -lc
32 LDLIBS += -lc -m64
33 LDLIBS += -L$(SRC)/lib/libfruutils/$(MACH64) -lfruutils
34 LDLIBS += -L$(SRC)/lib/libfru/libfrureg/$(MACH64) -lfrureg

36 install: all $(ROOTLIBDIR64) $(ROOTLINKSCC64)

38 $(ROOTLIBDIR64):
39     $(INS.dir)

41 include ../Makefile.targ
```

new/usr/src/test/libc-tests/tests/Makefile

1

```
*****
1836 Sat Jun 18 19:38:03 2016
new/usr/src/test/libc-tests/tests/Makefile
7069 i386_XARCH should include -m32
*****
1 #
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6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet at
9 # http://www.illumos.org/license/CDDL.
10 #
11 #
12 #
13 # Copyright (c) 2012 by Delphix. All rights reserved.
14 # Copyright 2015 Garrett D'Amore <garrett@damore.org>
15 # Copyright 2016 Joyent, Inc.
16 #
17 #
18 SUBDIRS = \
19     catopen \
20     fpround \
21     newlocale \
22     nl_langinfo \
23     priv_gettext \
24     random \
25     strerror \
26     symbols \
27     threads \
28     wcsrtombs \
29     wctype
30 #
31 PROGS = \
32     aligned_alloc \
33     c11_threads \
34     c11_tss \
35     call_once \
36     endian \
37     quick_exit_order \
38     quick_exit_status \
39     timespec_get
40 #
41 SCRIPTS = \
42     quick_exit
43 #
44 CPPFLAGS += -D_REENTRANT
45 #
46 PROGS32 = $(PROGS:%=%.32)
47 PROGS64 = $(PROGS:%=%.64)
48 #
49 aligned_alloc.32 :=      LDLIBS += -lproc
50 aligned_alloc.64 :=      LDLIBS64 += -lproc
51 #
52 ROOTOPTDIR = $(ROOT)/opt/libc-tests/tests
53 ROOTOPTPROGS = $(PROGS32:%=$(ROOTOPTDIR)/%) \
54     $(PROGS64:%=$(ROOTOPTDIR)/%) \
55     $(SCRIPTS:%=$(ROOTOPTDIR)/%)
56 #
57 include $(SRC)/cmd/Makefile.cmd
58 #
59 all := TARGET = all
60 install := TARGET = install
61 clean := TARGET = clean
```

new/usr/src/test/libc-tests/tests/Makefile

2

```
62 clobber := TARGET = clobber
63 lint := TARGET = lint
64 #
65 .KEEP_STATE:
66 #
67 install: $(SUBDIRS) $(ROOTOPTPROGS)
68 #
69 all: $(SUBDIRS) $(PROGS32) $(PROGS64)
70 #
71 clean lint: $(SUBDIRS)
72 #
73 $(ROOTOPTPROGS): $(PROGS32) $(PROGS64) $(ROOTOPTDIR)
74 #
75 $(ROOTOPTDIR):
76     $(INS.dir)
77 #
78 $(ROOTOPTDIR)/%: %
79     $(INS.file)
80 #
81 $(ROOTOPTDIR)/%: %.ksh
82     $(INS.rename)
83 #
84 %.64: %.c
85     $(LINK64.c) -o $@ $< $(LDLIBS64)
86     $(POST_PROCESS)
87 #
88 %.32: %.c
89     $(LINK.c) -o $@ $< $(LDLIBS)
90     $(POST_PROCESS)
91 #
92 clobber: $(SUBDIRS)
93     $(RM) $(PROGS32) $(PROGS64)
94 #
95 $(SUBDIRS): FRC
96     @cd $@; pwd; $(MAKE) $(TARGET)
97 #
98 FRC:
```