

new/usr/src/Makefile.master

1

```
*****
35217 Mon Jan 11 15:36:58 2016
new/usr/src/Makefile.master
native tools must reliably use a native adjunct, even if that's inconvenient
While it is perhaps convenient for native tools to use updated versions
of certain things like libxml it is imperative that those versions are
also build for the build machine. Thus they need to be in the native
adjunct (even if that native adjunct is thus not /).
Fix the native adjunct to be rooted similarly to the adjunct proto (that
is, at /), and fix SMF to use it correctly
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright (c) 2012 by Delphix. All rights reserved.
25 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
26 # Copyright 2015, OmniTI Computer Consulting, Inc. All rights reserved.
27 # Copyright 2015 Gary Mills
28 # Copyright 2015 Igor Kozhukhov <ikozhukhov@gmail.com>
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= /
46 NATIVE_ADJUNCT= /usr
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
```

new/usr/src/Makefile.master

2

```
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 noticable
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
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
```

new/usr/src/Makefile.master

3

```

121 JAVA_ROOT=      /usr/java

123 GCC_ROOT=       /opt/gcc/4.4.4
124 GCCLIBDIR=      $(GCC_ROOT)/lib
125 GCCLIBDIR64=    $(GCC_ROOT)/lib/$(MACH64)

127 DOCBOOK_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

```

new/usr/src/Makefile.master

4

```

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
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=     $(ONBLD_TOOLS)/bin/hdrchk
207 HDRCHK=          $(ONBLD_TOOLS)/bin/hdrchk
208 HDRCHK_TAIL=     $(ONBLD_TOOLS)/bin/jstyle
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)
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-regsym=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-regsym=0
295 CCREGSYM=      -Qoption cg -Qiselect-regsym=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-ounrefsym=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;
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=
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.
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) $(CSTATICSYM)
411 sparcv9_CFLAGS= $(sparcv9_XARCH) -dalign $(CCVERBOSE) $(V9ABIWARN) $(CCREGSYM) \
412 $(CSTATICSYM)
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= -x03
423 sparcv9_COPTFLAG= -x03
424 i386_COPTFLAG= -0
425 amd64_COPTFLAG= -x03

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)
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.
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 $(SRCDBGBLD)CSOURCEDEBUGFLAGS = -g -xs
536 $(SRCDBGBLD)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) $(NATIVE_MACH)_CCUNBOUND) \
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)/usr/include
563 CPPFLAGS=        $(ENVCPPFLAGS4) -I$(NATIVE_ADJUNCT)/include
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 XGETTEXT= -c TRANSLATION_NOTE
581 GNUXGETTEXT= /usr/gnu/bin/xgettext

```

```

582 GNUXGETTEXT= --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_gcc_map.noexglobs

```

```

648 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexeglobs
649 $(__GNUC64)MAPFILE.NGB_sparcv9= \
650 $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexeglobs
651 MAPFILE.NGB_i386= $(SRC)/common/mapfiles/gen/i386_cc_map.noexeglobs
652 $(__GNUC64)MAPFILE.NGB_i386= \
653 $(SRC)/common/mapfiles/gen/i386_gcc_map.noexeglobs
654 MAPFILE.NGB_amd64= $(SRC)/common/mapfiles/gen/amd64_cc_map.noexeglobs
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 = -lc_r -lcstd
706 $(__GNUC)CCNEEDED = -L$(GCCLIBDIR) -lstdc++ -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 = -IS($PRO_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 SS12u1 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 SS12u1 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

```

new/usr/src/Makefile.master

```

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=             $(ONBLD_TOOLS)/bin/$(MACH)/aw
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 NATVELD=               $( $(NATIVE_MACH)_LD )
821 NATVELINT=             $( $(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=                    $(NATVELD)
831 LINT=                  $(NATVELINT)

```

```

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

```

13

new/usr/src/Makefile.master

```

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=         -znodfaultlib
858 ZNODEFS=               -znodefes
859 ZNODELETE=             -znodelete
860 ZNODLOPEN=             -znodlopen
861 ZNODUMP=               -znodump
862 ZNOLAZYLOAD=           -znolazyload
863 ZNOLDYNSYM=            -znolddynsym
864 ZNORELOC=              -znoreloc
865 ZNOVERSION=            -znoversion
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 CTCFVTFLAGS=             -i -L VERSION

```

```

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

```

14

```

912 CTFMRGFLAGS=
914 CTFCONVERT_0      = $(CTFCONVERT) $(CTFCVTFLAGS) $$
916 ELFSIGN_0=        $(TRUE)
917 ELFSIGN_CRYPT0=    $(ELFSIGN_0)
918 ELFSIGN_OBJECT=    $(ELFSIGN_0)

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_0:  Post-processing for '.o' files.
925 #   POST_PROCESS_A:  Post-processing for '.a' files (currently null).
926 #   POST_PROCESS_S0: 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"

972 PROCESS_COMMENT= @$${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)
973 $(RELEASE_BUILD)PROCESS_COMMENT= @$${MCS} -d -a $(RELEASE_CM)

975 STRIP_STABS= $(STRIP) -x $$
976 $(SRCDGBLD)STRIP_STABS= :

```

```

978 POST_PROCESS_0=
979 POST_PROCESS_A=
980 POST_PROCESS_S0= $(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) $$

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)

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

1009 # Default build rules which perform comment section post-processing.
1010 #
1011 .c:
1012     $(LINK.c) -o $$ $(LDLIBS)
1013     $(POST_PROCESS)
1014 .c.o:
1015     $(COMPILE.c) $(OUTPUT_OPTION) $(CTFCONVERT_HOOK)
1016     $(POST_PROCESS_0)
1017 .c.a:
1018     $(COMPILE.c) -o $$ $(LDLIBS)
1019     $(PROCESS_COMMENT) $$
1020     $(AR) $(ARFLAGS) $$
1021     $(RM) $$
1022 .s.o:
1023     $(COMPILE.s) -o $$ $(LDLIBS)
1024     $(POST_PROCESS_0)
1025 .s.a:
1026     $(COMPILE.s) -o $$ $(LDLIBS)
1027     $(PROCESS_COMMENT) $$
1028     $(AR) $(ARFLAGS) $$
1029     $(RM) $$
1030 .cc:
1031     $(LINK.cc) -o $$ $(LDLIBS)
1032     $(POST_PROCESS)
1033 .cc.o:
1034     $(COMPILE.cc) $(OUTPUT_OPTION) $(CTFCONVERT_HOOK)
1035     $(POST_PROCESS_0)
1036 .cc.a:
1037     $(COMPILE.cc) -o $$ $(LDLIBS)
1038     $(AR) $(ARFLAGS) $$
1039     $(PROCESS_COMMENT) $$
1040     $(RM) $$
1041 .y:
1042     $(YACC.y) $(YACC_FLAGS)
1043     $(LINK.c) -o $$ 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_0)
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_0)
1062 $(RM) *.c

1064 .bin.o:
1065 $(COMPILE.b) -o $@ $<
1066 $(POST_PROCESS_0)

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) $(GNUXGETFLAGS) -d $(<F:%.py=) $< ;

1106 .pl.po .pm.po:
1107 $(XGETTEXT) $(XGETFLAGS) -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/hal/Makefile.hal

1

```
*****
2515 Mon Jan 11 15:36:58 2016
new/usr/src/cmd/hal/Makefile.hal
gag Studio warnings that only occur with an adjunct proto
Studio has no equivalent to -isystem, and no option to its -errhdr that
seems equivalent. As such, we have to gag the warnings that are induced
from the 3rd party headers when those headers are found via the adjunct,
as they will not match Studio's seemingly hard-coded exception on
'/usr/include'
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # Definitions common for HAL code and consumers
26 #

28 HAL_VERSION =          0.5.8

30 ROOTLIB_HAL =           $(ROOTLIB)/hal
31 ROOTLIB_HAL_SCRIPTS =   $(ROOTLIB)/hal

33 ROOT_HAL_FDI =          $(ROOT)/etc/hal/fdi

35 HAL_USER =             daemon
36 HAL_GROUP =            daemon

38 # derived from the generated config.h
39 HAL_CONFIG_CPPFLAGS =   -DPACKAGE_DATA_DIR=\"/usr/lib\" \
40                         -DPACKAGE_BIN_DIR=\"/usr/bin\" \
41                         -DPACKAGE_LIBEXEC_DIR=\"/usr/lib/hal\" \
42                         -DPACKAGE_SCRIPT_DIR=\"/usr/lib/hal\" \
43                         -DPACKAGE_LOCALSTATEDIR=\"/var\" \
44                         -DPACKAGE_SYSCONF_DIR=\"/etc\" \
45                         -DPACKAGE_LOCALE_DIR=\"/usr/lib/locale\" \
46                         -DPACKAGE_VERSION=\"$(HAL_VERSION)\" \
47                         -DPACKAGE_STRING=\"\"hal $(HAL_VERSION)\" \
48                         -DHALD_PID_FILE=\"/var/run/hald/pid\" \
49                         -DHALD_SOCKET_DIR=\"/var/run/hald\" \
50                         -DHAVE_ASPRINTF \
51                         -DHAVE_POLKIT \
52                         -DHWDATA_DIR=\"/usr/share/hwdata\" \
53                         -DHAL_USER=\"$(HAL_USER)\" \
54                         -DHAL_GROUP=\"$(HAL_GROUP)\"

56 HAL_DBUS_CPPFLAGS =    -DDBUS_API_SUBJECT_TO_CHANGE \
```

new/usr/src/cmd/hal/Makefile.hal

2

```
57                         -DDBUS_SYSTEMD_DIR=\"/etc/dbus-1/system.d\" \
58                         -I$(ADJUNCT_PROTO)/usr/include/dbus-1.0 \
59                         -I$(ADJUNCT_PROTO)/usr/lib/dbus-1.0/include

61 HAL_GLIB_CPPFLAGS =     -I$(ADJUNCT_PROTO)/usr/include/glib-2.0 \
62                         -I$(ADJUNCT_PROTO)/usr/lib/glib-2.0/include

64 HAL_GETTEXT_PACKAGE =   $(TEXT_DOMAIN)

66 CERRWARN +=             -_gcc=-Wno-unused-variable
67 CERRWARN +=             -_gcc=-Wno-unused-label
68 CERRWARN +=             -_gcc=-Wno-unused-value
69 CERRWARN +=             -_gcc=-Wno-extra
70 CERRWARN +=             -_gcc=-Wno-parentheses
71 CERRWARN +=             -_gcc=-Wno-address
72 CERRWARN +=             -_gcc=-Wno-unused-function

74 # This is, unfortunately, from the glib headers. Studio provides no
75 # equivalent to -isystem
76 CERRWARN +=             -_cc=-erroff=E_INTEGER_OVERFLOW_DETECTED
77 #endif /* ! codereview */
```

new/usr/src/cmd/latencytop/Makefile.com

2231 Mon Jan 11 15:36:59 2016
new/usr/src/cmd/latencytop/Makefile.com
gag Studio warnings that only occur with an adjunct proto
Studio has no equivalent to -isystem, and no option to its -errhdr that
seems equivalent. As such, we have to gag the warnings that are induced
from the 3rd party headers when those headers are found via the adjunct,
as they will not match Studio's seemingly hard-coded exception on
'usr/include'

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2008-2009, Intel Corporation.
23 # All Rights Reserved.
24 #
```

```
26 PROG = latencytop
27 OBJS = latencytop.o display.o dwrapper.o klog.o stat.o table.o util.o
28 SRCS = $(OBJS:%.o=../common/%.c)
```

```
30 include ../../Makefile.cmd
```

```
32 CFLAGS += $(CCVERBOSE)
33 CFLAGS64 += $(CCVERBOSE)
```

```
35 CERRWARN += -_gcc=-who-uninitialized
```

```
37 CPPFLAGS += -DEMBED_CONFIGS -I$(ADJUNCT_PROTO)/usr/include/glib-2.0 \
38 -I$(ADJUNCT_PROTO)/usr/lib/glib-2.0/include
39 C99MODE = $(C99_ENABLE)
40 LDLIBS += -lcurses -ldtrace
41 all install := LDLIBS += -lglib-2.0
```

```
43 LINTFLAGS += -erroff=E_NAME_USED_NOT_DEF2
44 LINTFLAGS += -erroff=E_FUNC_RET_ALWAYS_IGNORE2
45 LINTFLAGS += -erroff=E_STATIC_UNUSED
46 #endif /* ! codereview */
47 LINTFLAGS64 += -erroff=E_NAME_USED_NOT_DEF2
48 LINTFLAGS64 += -erroff=E_FUNC_RET_ALWAYS_IGNORE2
49 LINTFLAGS64 += -erroff=E_STATIC_UNUSED
50 #endif /* ! codereview */
```

```
52 FILEMODE = 0555
```

```
45 ELFWRAP = elfwrap
54 WRAPOBJ = latencytop_wrap.o
```

1

new/usr/src/cmd/latencytop/Makefile.com

2

```
56 CLEANFILES += $(OBJS) $(WRAPOBJ) ./latencytop_d ./latencytop_trans
```

```
58 .KEEP_STATE:
```

```
60 all: $(PROG)
```

```
62 install: $(SUBDIRS)
63 -$(RM) $(ROOTPROG)
64 -$(LN) $(ISAEXEC) $(ROOTPROG)
```

```
66 $(PROG): $(OBJS) $(WRAPOBJ)
67 $(LINK.c) -o $@ $(OBJS) $(WRAPOBJ) $(LDLIBS)
68 $(POST_PROCESS)
```

```
70 $(WRAPOBJ): latencytop_d latencytop_trans
71 $(ELFWRAP) $(WRAPOPT) -o $(WRAPOBJ) latencytop_d latencytop_trans
```

```
73 latencytop_d:
74 cp ../common/latencytop.d ./latencytop_d
```

```
76 latencytop_trans:
77 cp ../common/latencytop.trans ./latencytop_trans
```

```
79 clean:
80 $(RM) $(CLEANFILES)
```

```
82 lint: lint_SRCS
```

```
84 %.o: ../common/%.c
85 $(COMPILE.c) $<
```

```
87 include ../../Makefile.targ
```

new/usr/src/cmd/mdb/intel/ia32/libpython2.6/Makefile

1

```
*****
1478 Mon Jan 11 15:36:59 2016
new/usr/src/cmd/mdb/intel/ia32/libpython2.6/Makefile
gag Studio warnings that only occur with an adjunct proto
Studio has no equivalent to -isystem, and no option to its -errhdr that
seems equivalent. As such, we have to gag the warnings that are induced
from the 3rd party headers when those headers are found via the adjunct,
as they will not match Studio's seemingly hard-coded exception on
'/usr/include'
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2010 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 MODULE = libpython2.6.so
27 MDBTGT = proc

29 MODSRCS_DIR = ../../../../common/modules/libpython2.6

31 MODSRCS = libpython26.c

33 include ../../../../Makefile.cmd
34 include ../../Makefile.ia32
35 include ../../../../Makefile.module

37 %.o := CPPFLAGS +=      -_gcc=-isystem -_gcc=$(ADJUNCT_PROTO)/usr/include

39 # Studio provides no equivalent to -isystem, so we have to be heavy handed
40 CERRWARN +=      -_cc=-erroff=E_MACRO_REDEFINED
41 LINTFLAGS +=      -erroff=E_MACRO_REDEFINED

43 #endif /* ! codereview */
44 dmod/${MODULE} := LDLIBS += -lproc

46 %.o: ${MODSRCS_DIR}/%.c
47      ${COMPILE.c} $<
48      ${CTFCONVERT_O}

50 %.ln: ${MODSRCS_DIR}/%.c
51      ${LINT.c} -c $<
```

new/usr/src/cmd/rmmount/Makefile

1

```
*****
2402 Mon Jan 11 15:36:59 2016
new/usr/src/cmd/rmmount/Makefile
gag Studio warnings that only occur with an adjunct proto
Studio has no equivalent to -isystem, and no option to its -errhdr that
seems equivalent. As such, we have to gag the warnings that are induced
from the 3rd party headers when those headers are found via the adjunct,
as they will not match Studio's seemingly hard-coded exception on
'usr/include'
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 PROG =          rmmount
27 LOCAL_OBJS =     rmmount.o
28 RMVOLMGR_OBJS =  rmm_common.o vold.o
29 OBJS =           $(LOCAL_OBJS) $(RMVOLMGR_OBJS)
30 LOCAL_SRCS =     $(LOCAL_OBJS:%.o=%.c)
31 RMVOLMGR_SRCS = $(RMVOLMGR_OBJS:%.o=$(SRC)/cmd/rmvolmgr/%.c)
32 SRCS =           $(LOCAL_SRCS) $(RMVOLMGR_SRCS)

34 include $(SRC)/cmd/Makefile.cmd
35 include $(SRC)/cmd/hal/Makefile.hal

37 LDLIBS +=        -ldbus-1 -ldbus-glib-1 -lglib-2.0 -lhal -lhal-storage -lcontract

39 CPPFLAGS +=      $(HAL_DBUS_CPPFLAGS) $(HAL_GLIB_CPPFLAGS)
40 CPPFLAGS +=      -I$(ROOT)/usr/include/hal
41 CPPFLAGS +=      -I$(SRC)/cmd/rmvolmgr
42 C99MODE =         $(C99_ENABLE)

44 CERRWARN +=      -_gcc=-Wno-switch
45 CERRWARN +=      -_gcc=-Wno-unused-variable
46 CERRWARN +=      -_gcc=-Wno-parentheses
47 CERRWARN +=      -_gcc=-Wno-unused-function
48 CERRWARN +=      -_gcc=-Wno-uninitialized

50 # This is, unfortunately, from the glib headers. Studio provides no
51 # equivalent to -isystem
52 CERRWARN +=      -_cc=-erroff=E_INTEGER_OVERFLOW_DETECTED

54 #endif /* ! codereview */
55 .KEEP_STATE:
```

new/usr/src/cmd/rmmount/Makefile

2

```
57 all: $(PROG)

59 $(PROG): $(OBJS)
60     $(LINK.c) -o $(PROG) $(OBJS) $(LDLIBS)
61     $(POST_PROCESS)

63 install: all $(ROOTPROG)
64     -$(RM) $(ROOT)/usr/bin/rmmount
65     -$(RM) $(ROOT)/usr/sbin/rmmount
66     -$(SYMLINK) ./rmmount $(ROOT)/usr/bin/rmmount
67     -$(SYMLINK) ../bin/rmmount $(ROOT)/usr/sbin/rmmount

69 rmm_common.o: $(SRC)/cmd/rmvolmgr/rmm_common.c $(SRC)/cmd/rmvolmgr/rmm_common.h
70     $(COMPILE.c) -o $@ $(SRC)/cmd/rmvolmgr/rmm_common.c
71     $(POST_PROCESS_O)

73 vold.o: $(SRC)/cmd/rmvolmgr/vold.c $(SRC)/cmd/rmvolmgr/vold.h
74     $(COMPILE.c) -o $@ $(SRC)/cmd/rmvolmgr/vold.c
75     $(POST_PROCESS_O)

77 clean:
78     $(RM) $(OBJS)

80 include ../Makefile.targ
```

new/usr/src/cmd/rmvolmgr/Makefile

1

```
*****
2121 Mon Jan 11 15:37:00 2016
new/usr/src/cmd/rmvolmgr/Makefile
gag Studio warnings that only occur with an adjunct proto
Studio has no equivalent to -isystem, and no option to its -errhdr that
seems equivalent. As such, we have to gag the warnings that are induced
from the 3rd party headers when those headers are found via the adjunct,
as they will not match Studio's seemingly hard-coded exception on
'/usr/include'
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 PROG =          rmvolmgr
27 OBJS =          rmm_common.o rmvolmgr.o vold.o
28 SRCS =          $(OBJS:%.o=%.c)

30 MANIFEST =      rmvolmgr.xml
31 SVCMETHOD =     svc-rmvolmgr

33 include ../Makefile.cmd
34 include ../hal/Makefile.hal

36 POFILE=rmvolmgr_all.po
37 POFILES=$(OBJS:%.o=%.po)

39 LDLIBS +=       -ldbus-1 -ldbus-glib-1 -lglib-2.0 -lhal -lhal-storage -lcontract

41 CPPFLAGS +=     $(HAL_DBUS_CPPFLAGS) $(HAL_GLIB_CPPFLAGS)
42 CPPFLAGS +=     -I$(ROOT)/usr/include/hal
43 C99MODE =        $(C99_ENABLE)

45 CERRWARN +=     -_gcc=-Wno-switch
46 CERRWARN +=     -_gcc=-Wno-uninitialized
47 CERRWARN +=     -_gcc=-Wno-unused-variable
48 CERRWARN +=     -_gcc=-Wno-parentheses
49 CERRWARN +=     -_gcc=-Wno-unused-function

51 # This is, unfortunately, from the glib headers. Studio provides no
52 # equivalent to -isystem
53 CERRWARN +=     -_cc=-erroff=E_INTEGER_OVERFLOW_DETECTED

55 #endif /* ! codereview */
56 ROOTCDDIR =     $(ROOTLIB)
```

new/usr/src/cmd/rmvolmgr/Makefile

2

```
57 ROOTMANIFESTDIR = $(ROOTSVCSYSTEMFILESYSYSTEM)
58 $(ROOTMANIFEST) := FILEMODE = 444
59 $(ROOTLIBSVCMETHOD)/svc-rmvolmgr:= FILEMODE = 555

61 .KEEP_STATE:

63 all: $(PROG)

65 $(PROG): $(OBJS)
66     $(LINK.c) -o $(PROG) $(OBJS) $(LDLIBS)
67     $(POST_PROCESS)

69 install: all $(ROOTCMD) $(ROOTMANIFEST) $(ROOTSVCMETHOD)

71 clean:
72     $(RM) $(OBJS)

74 check: $(CHKMANIFEST)

76 $(POFILE): $(POFILES)
77     $(RM) $@
78     $(CAT) $(POFILES) > $@

80 include ../Makefile.targ
```

new/usr/src/cmd/svc/configd/Makefile

1

```
*****
3228 Mon Jan 11 15:37:00 2016
new/usr/src/cmd/svc/configd/Makefile
native tools must reliably use a native adjunct, even if that's inconvenient
While it is perhaps convenient for native tools to use updated versions
of certain things like libxml it is imperative that those versions are
also build for the build machine. Thus they need to be in the native
adjunct (even if that native adjunct is thus not /).
Fix the native adjunct to be rooted similarly to the adjunct proto (that
is, at /), and fix SMF to use it correctly
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 MYPROG = svc.configd
27 MYOBSJS = \
28     backend.o \
29     configd.o \
30     client.o \
31     file_object.o \
32     maindoor.o \
33     object.o \
34     rc_node.o \
35     snapshot.o

37 PROG = $(MYPROG)
38 OBSJS = $(MYOBSJS)

40 SRCS = $(MYOBSJS:.o=%.c)

42 include .././Makefile.cmd
43 include .././Makefile.ctf

45 NATIVE_BUILD=$(POUND_SIGN)
46 $(NATIVE_BUILD)PROG = $(MYPROG:%=-native)
47 $(NATIVE_BUILD)OBSJS = $(MYOBSJS:.o=%-native.o)

49 ROOTCMDDIR= $(ROOT)/lib/svc/bin

51 MYCPPFLAGS = -I. -I../common -I.././../common/svc \
52     -I$(ROOT)/usr/include/sqlite-sys -D_REENTRANT
53 CPPFLAGS += $(MYCPPFLAGS)
54 CFLAGS += $(CCVERBOSE)
55 CERRWARN += -_gcc=-Wno-parentheses
```

new/usr/src/cmd/svc/configd/Makefile

2

```
56 CERRWARN += -_gcc=-Wno-type-limits
57 CERRWARN += -_gcc=-Wno-unused-label
58 CERRWARN += -_gcc=-Wno-unused-variable
59 CERRWARN += -_gcc=-Wno-unused-function
60 CERRWARN += -_gcc=-Wno-uninitialized
61 MYDLIBS = -lumem -luutil -lbsm
62 LDLIBS += -lsecdb $(MYDLIBS)
63 LINTFLAGS += -errtags -erroff=E_BAD_FORMAT_ARG_TYPE2 -erroff=E_NAME_DEF_NOT_USED

65 CLOBBERFILES += $(MYPROG:%=-native)

67 LIBUUTIL = $(SRC)/lib/libuutil
68 LIBSCF = $(SRC)/lib/libscf

70 SCRIPTFILE = restore_repository
71 ROOTSCRIPTFILE = $(ROOTCMDDIR)/$(SCRIPTFILE)

73 #
74 # Native variant (used in ../seed)
75 #
76 $(NATIVE_BUILD)CC = $(NATIVECC)
77 $(NATIVE_BUILD)LD = $(NATIVELD)
78 $(NATIVE_BUILD)CFLAGS = $(NATIVE_CFLAGS)
79 $(NATIVE_BUILD)CPPFLAGS = $(MYCPPFLAGS) -I$(LIBUUTIL)/common -I$(LIBSCF)/inc
80 $(NATIVE_BUILD)CPPFLAGS += -DNATIVE_BUILD
81 $(NATIVE_BUILD)LDFLAGS =
82 $(NATIVE_BUILD)LDLIBS = -L$(NATIVE_ADJUNCT)/usr/lib \
83     -R$(NATIVE_ADJUNCT)/usr/lib \
82 $(NATIVE_BUILD)LDLIBS = -L$(ADJUNCT_PROTO)/usr/lib -R$(ADJUNCT_PROTO)/usr/lib \
84     -L$(LIBUUTIL)/native -R $(LIBUUTIL)/native $(MYDLIBS)

86 DIRM0DE = 0755
87 FILEMODE = 0555

89 OBJSQLITE =
90 LIBSQLITE = -lsqlite-sys
91 $(NATIVE_BUILD)OBJSQLITE = $(ROOT)/lib/libsqlite-native.o
92 $(NATIVE_BUILD)LIBSQLITE =

94 OBSJS += $(OBJSQLITE)
95 LDLIBS += $(LIBSQLITE)

97 install := TARGET = install
98 clobber := TARGET = clobber

100 .KEEP_STATE:
101 .PARALLEL: $(MYOBSJS) $(MYOBSJS:.o=%-native.o)

103 all: $(PROG)

105 native: FRC
106     @cd $(LIBUUTIL)/native; pwd; $(MAKE) $(MFLAGS) install
107     @NATIVE_BUILD= $(MAKE) $(MFLAGS) all

109 $(PROG): $(OBSJS)
110     $(LINK.c) -o $@ $(OBSJS) $(LDLIBS)
111     $(POST_PROCESS)

113 %-native.o: %.c
114     $(COMPILE.c) -o $@ $<
115     $(POST_PROCESS_0)

117 $(ROOTCMDDIR)/%: %.sh
118     $(INS.rename)

120 install: all $(ROOTCMD) $(ROOTVARSADMFILE) $(ROOTSCRIPTFILE)
```

new/usr/src/cmd/svc/configd/Makefile

3

```
122 clean: FRC
123     $(RM) $(MYOBSJS) $(MYOBSJS:%.o=%-native.o)

125 clobber:

127 lint:    lint_SRCS

129 lint_SRCS:

131 include ../../Makefile.targ

133 FRC:
```

new/usr/src/cmd/svc/svccfg/Makefile

1

```
*****
4408 Mon Jan 11 15:37:01 2016
new/usr/src/cmd/svc/svccfg/Makefile
native tools must reliably use a native adjunct, even if that's inconvenient
While it is perhaps convenient for native tools to use updated versions
of certain things like libxml it is imperative that those versions are
also build for the build machine. Thus they need to be in the native
adjunct (even if that native adjunct is thus not /).
Fix the native adjunct to be rooted similarly to the adjunct proto (that
is, at /), and fix SMF to use it correctly
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 2004, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
25
26 MYPROG =      svccfg
27 PROG =       $(MYPROG)
28
29 SRCS =        svccfg_main.c \
30               svccfg_engine.c \
31               svccfg_internal.c \
32               svccfg_libscf.c \
33               svccfg_tmpl.c \
34               svccfg_xml.c \
35               svccfg_help.c
36
37 LNTS =        $(SRCS:%.c=%.ln) \
38               manifest_find.ln \
39               manifest_hash.ln
40
41 MYOBSJS =     $(SRCS:%.c=%.o) \
42               svccfg_grammar.o \
43               svccfg_lex.o \
44               manifest_find.o \
45               manifest_hash.o \
46               notify_params.o
47 OBSJS =       $(MYOBSJS)
48
49 POFILES =     $(SRCS:%.c=%.po) \
50               svccfg_grammar.po \
51               svccfg_lex.po \
52               ../common/manifest_find.po \
53               ../common/manifest_hash.po
54
55 include ../../Makefile.cmd
```

new/usr/src/cmd/svc/svccfg/Makefile

2

```
56 include ../../Makefile.ctf
57
58 POFILE =      $(PROG)_all.po
59
60 NATIVE_BUILD=$(POUND_SIGN)
61 $(NATIVE_BUILD)NOT_NATIVE=$(POUND_SIGN)
62
63 $(NATIVE_BUILD)PROG = $(MYPROG:%=-native)
64 $(NATIVE_BUILD)OBSJS = $(MYOBSJS:%.o=%-native.o)
65
66 # svccfg has a name clash with main() and libl.so.1. However, svccfg must
67 # still export a number of "yy*" (libl) interfaces. Reduce all other symbols
68 # to local scope.
69 MAPFILES +=   $(MAPFILE.LEX) $(MAPFILE.NGB)
70 MAPOPTS =     $(MAPFILES:%=-M%)
71
72 MYCPPFLAGS =  -I ../common -I$(ADJUNCT_PROTO)/usr/include/libxml2
73 $(NATIVE_BUILD)MYCPPFLAGS = -I ../common \
74                             -I$(NATIVE_ADJUNCT)/usr/include/libxml2
75 #endif /* ! codereview */
76 CPPFLAGS +=   $(MYCPPFLAGS)
77 LDFLAGS +=     $(MAPOPTS)
78
79 CERRWARN +=   -_gcc=-Wno-unused-label
80 CERRWARN +=   -_gcc=-Wno-implicit-function-declaration
81 CERRWARN +=   -_gcc=-Wno-switch
82 CERRWARN +=   -_gcc=-Wno-uninitialized
83 CERRWARN +=   -_gcc=-Wno-unused-variable
84 CERRWARN +=   -_gcc=-Wno-parentheses
85
86 LFLAGS =      -t
87 YFLAGS =      -d
88
89 CLOBBERFILES += svccfg_lex.c svccfg_grammar.c svccfg_grammar.h \
90                 $(MYPROG:%=-native)
91
92 SVCCFG_EXTRA_LIBS = -lxml2 -lscf -ll -luutil -lumem -lmd5 -lnvpair
93 $(NOT_NATIVE)SVCCFG_EXTRA_LIBS += -ltecla
94
95 LIBSCF        = $(SRC)/lib/libscf
96 LIBTECLA      = $(SRC)/lib/libtecla          # just for the header
97 LIBUUTIL      = $(SRC)/lib/libuutil
98
99 debug := COPTFLAG = -g
100
101 lint := LINTFLAGS = -mux
102 lint := SVCCFG_EXTRA_LIBS = -lscf -ll -luutil -lumem -lmd5 -lnvpair
103
104 LDLIBS += $(SVCCFG_EXTRA_LIBS)
105
106 $(NATIVE_BUILD)CC = $(NATIVECC)
107 $(NATIVE_BUILD)LD = $(NATIVEDL)
108 $(NATIVE_BUILD)CFLAGS = $(NATIVE_CFLAGS)
109 $(NATIVE_BUILD)CPPFLAGS = \
110     -DNATIVE_BUILD \
111     $(MYCPPFLAGS) \
112     -I$(LIBSCF)/inc \
113     -I$(LIBTECLA) \
114     -I$(LIBUUTIL)/common
115 $(NATIVE_BUILD)LDFLAGS =
116 $(NATIVE_BUILD)LDLIBS = \
117     -L$(LIBUUTIL)/native -R $(LIBUUTIL)/native \
118     -L$(LIBSCF)/native -R $(LIBSCF)/native \
119     -L$(NATIVE_ADJUNCT)/usr/lib -R$(NATIVE_ADJUNCT)/usr/lib \
120     -L$(ADJUNCT_PROTO)/usr/lib -R$(ADJUNCT_PROTO)/usr/lib \
121     $(SVCCFG_EXTRA_LIBS)
```

```
122 svccfg_lex.o svccfg_grammar.o := CCVERBOSE =
124 svccfg_help.po := XGETFLAGS = -a
126 .KEEP_STATE:
127 .PARALLEL: $(OBJS) $(LNTS)
129 all debug: $(PROG)
131 native: FRC
132     @cd $(LIBUTIL)/native; pwd; $(MAKE) $(MFLAGS) install
133     @cd $(LIBSCF)/native; pwd; $(MAKE) $(MFLAGS) install
134     @NATIVE_BUILD= $(MAKE) $(MFLAGS) all
136 $(PROG): $(OBJS) $(MAPFILES)
137     $(LINK.c) -o $@ $(OBJS) $(LDLIBS)
138     $(POST_PROCESS)
140 $(POFILE): $(POFILES)
141     cat $(POFILES) > $(POFILE)
143 install: all $(ROOTUSRSBINPROG)
145 svccfg_lex.c: svccfg.l svccfg_grammar.h
146     $(LEX) $(LFLAGS) svccfg.l > $@
148 svccfg_help.o: svccfg_grammar.h
149 svccfg_help-native.o: svccfg_grammar.h
151 svccfg_grammar.h svccfg_grammar.c: svccfg.y
152     $(YACC) $(YFLAGS) svccfg.y
153     @$$(MV) y.tab.h svccfg_grammar.h
154     @$$(MV) y.tab.c svccfg_grammar.c
156 clean: FRC
157     $(RM) $(MYOBJS) $(MYOBJS:%.o=%.native.o) $(LNTS)
159 lint: $(LNTS)
160     $(LINT.c) $(LINTFLAGS) $(LNTS) $(LDLIBS)
162 %-native.o: %.c
163     $(COMPILE.c) -o $@ $<
164     $(POST_PROCESS_O)
166 %-native.o: ../common/%.c
167     $(COMPILE.c) -o $@ $<
168     $(POST_PROCESS_O)
170 %.o: ../common/%.c
171     $(COMPILE.c) $(OUTPUT_OPTION) $<
172     $(POST_PROCESS_O)
174 %.ln: ../common/%.c
175     $(LINT.c) $(OUTPUT_OPTION) -c $<
177 include ../../Makefile.targ
179 FRC:
```

new/usr/src/cmd/volrmount/Makefile

1

```
*****
2241 Mon Jan 11 15:37:01 2016
new/usr/src/cmd/volrmount/Makefile
gag Studio warnings that only occur with an adjunct proto
Studio has no equivalent to -isystem, and no option to its -errhdr that
seems equivalent. As such, we have to gag the warnings that are induced
from the 3rd party headers when those headers are found via the adjunct,
as they will not match Studio's seemingly hard-coded exception on
'/usr/include'
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 PROG =          volrmount
27 LOCAL_OBJS =     volrmount.o
28 RMVOLMGR_OBJS =  rmm_common.o vold.o
29 OBJS =           $(LOCAL_OBJS) $(RMVOLMGR_OBJS)
30 LOCAL_SRCS =     $(LOCAL_OBJS:%.o=%.c)
31 RMVOLMGR_SRCS =  $(RMVOLMGR_OBJS:%.o=$(SRC)/cmd/rmvolmgr/%.c)
32 SRCS =           $(LOCAL_SRCS) $(RMVOLMGR_SRCS)

34 include $(SRC)/cmd/Makefile.cmd
35 include $(SRC)/cmd/hal/Makefile.hal

37 LDLIBS +=        -ldbus-1 -ldbus-glib-1 -lglib-2.0 -lhal -lhal-storage -lcontract

39 CPPFLAGS +=      $(HAL_DBUS_CPPFLAGS) $(HAL_GLIB_CPPFLAGS)
40 CPPFLAGS +=      -I$(ROOT)/usr/include/hal
41 CPPFLAGS +=      -I$(SRC)/cmd/rmvolmgr
42 C99MODE =        $(C99_ENABLE)

44 CERRWARN +=      -_gcc=-Wno-switch
45 CERRWARN +=      -_gcc=-Wno-unused-variable
46 CERRWARN +=      -_gcc=-Wno-parentheses
47 CERRWARN +=      -_gcc=-Wno-uninitialized
48 CERRWARN +=      -_gcc=-Wno-unused-function

50 # This is, unfortunately, from the glib headers. Studio provides no
51 # equivalent to -isystem
52 CERRWARN +=      -_cc=-erroff=E_INTEGER_OVERFLOW_DETECTED

54 #endif /* ! codereview */
55 .KEEP_STATE:
```

new/usr/src/cmd/volrmount/Makefile

2

```
57 all: $(PROG)

59 $(PROG): $(OBJS)
60     $(LINK.c) -o $(PROG) $(OBJS) $(LDLIBS)
61     $(POST_PROCESS)

63 install: all $(ROOTPROG)

65 rmm_common.o: $(SRC)/cmd/rmvolmgr/rmm_common.c $(SRC)/cmd/rmvolmgr/rmm_common.h
66     $(COMPILE.c) -o $@ $(SRC)/cmd/rmvolmgr/rmm_common.c
67     $(POST_PROCESS_0)

69 vold.o: $(SRC)/cmd/rmvolmgr/vold.c $(SRC)/cmd/rmvolmgr/vold.h
70     $(COMPILE.c) -o $@ $(SRC)/cmd/rmvolmgr/vold.c
71     $(POST_PROCESS_0)

73 clean:
74     $(RM) $(OBJS)

76 include ../Makefile.targ
```

new/usr/src/lib/libscf/Makefile.com

1

2285 Mon Jan 11 15:37:02 2016
new/usr/src/lib/libscf/Makefile.com
native tools must reliably use a native adjunct, even if that's inconvenient
While it is perhaps convenient for native tools to use updated versions
of certain things like libxml it is imperative that those versions are
also build for the build machine. Thus they need to be in the native
adjunct (even if that native adjunct is thus not /).
Fix the native adjunct to be rooted similarly to the adjunct proto (that
is, at /), and fix SMF to use it correctly

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2004, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
```

```
25 LIBRARY =      libscf.a
26 VERS =        .1
```

```
28 OBJECTS = \
29     error.o      \
30     lowlevel.o   \
31     midlevel.o   \
32     notify_params.o \
33     highlevel.o  \
34     scf_tmpl.o   \
35     scf_type.o
```

```
37 include .././Makefile.lib
38 include .././Makefile.rootfs
```

```
40 LIBS =          $(DYNLIB) $(LINTLIB)
```

```
42 $(NOT_NATIVE)NATIVE_BUILD = $(POUND_SIGN)
43 $(NATIVE_BUILD)VERS =
44 $(NATIVE_BUILD)LIBS = $(DYNLIB)
```

```
46 LDLIBS_i386 += -lsmbios
47 LDLIBS +=      -luutil -lc -lgen -lnsl -lnvpair
48 LDLIBS +=      $(LDLIBS_$(MACH))
```

```
50 SRCDIR =        ../common
51 $(LINTLIB) :=    SRCS = $(SRCDIR)/$(LINTSRC)
```

```
53 COMDIR =        ../.././common/svc
```

```
55 CFLAGS +=       $(CCVERBOSE) -Wp,-xc99=%all
```

new/usr/src/lib/libscf/Makefile.com

2

```
56 CPPFLAGS +=     -I../inc -I.././common/inc -I$(COMDIR) -I$(ROOTHDRDIR)
57 $(NOT_RELEASE_BUILD) CPPFLAGS += -DFASTREBOOT_DEBUG
```

```
59 CERRWARN +=     -_gcc=-Wno-switch
60 CERRWARN +=     -_gcc=-Wno-char-subscripts
61 CERRWARN +=     -_gcc=-Wno-unused-label
62 CERRWARN +=     -_gcc=-Wno-parentheses
63 CERRWARN +=     -_gcc=-Wno-uninitialized
```

```
65 #
66 # For native builds, we compile and link against the native version
67 # of libuutil.
```

```
68 #
69 LIBUUTIL =       $(SRC)/lib/libuutil
70 MY_NATIVE_CPPFLAGS = \
71     -DNATIVE_BUILD $(DTEXTDOM) \
72     -I../inc -I$(COMDIR) -I$(LIBUUTIL)/common -I$(ROOTHDRDIR)
73 MY_NATIVE_LDLIBS = -L$(LIBUUTIL)/native -R$(LIBUUTIL)/native \
74     -L$(NATIVE_ADJUNCT)/usr/lib -R$(NATIVE_ADJUNCT)/usr/lib \
75     -luutil -lc -lgen -lnsl -lnvpair
76 MY_NATIVE_LDLIBS = -L$(LIBUUTIL)/native -R$(LIBUUTIL)/native -luutil -lc -lgen \
77     -lnsl -lnvpair
78 MY_NATIVE_LDLIBS_i386 = -lsmbios
79 MY_NATIVE_LDLIBS += $(MY_NATIVE_LDLIBS_$(MACH))
```

```
79 .KEEP_STATE:
```

```
81 all:
```

```
83 lint: lintcheck
```

```
85 include .././Makefile.targ
```

new/usr/src/lib/policykit/Makefile.com

1

1675 Mon Jan 11 15:37:02 2016
new/usr/src/lib/policykit/Makefile.com
gag Studio warnings that only occur with an adjunct proto
Studio has no equivalent to -isystem, and no option to its -errhdr that
seems equivalent. As such, we have to gag the warnings that are induced
from the 3rd party headers when those headers are found via the adjunct,
as they will not match Studio's seemingly hard-coded exception on
'/usr/include'

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 include $(SRC)/lib/Makefile.lib
27 include $(SRC)/lib/policykit/Makefile.policykit

29 CPPFLAGS =      $(POLICYKIT_DBUS_CPPFLAGS) $(POLICYKIT_GLIB_CPPFLAGS) $(CPPFLAGS)

31 CERRWARN +=      -_gcc=-Wno-unused-variable

33 # This is, unfortunately, from the glib headers. Studio provides no
34 # equivalent to -isystem
35 CERRWARN +=      -_cc=-erroff=E_INTEGER_OVERFLOW_DETECTED

37 #endif /* ! codereview */
38 C99MODE =        $(C99_ENABLE)

40 ROOTLIBPCDIR =   $(ROOT)/usr/lib/pkgconfig
41 ROOTLIBPC =      $(LIBPCSRC:%=$(ROOTLIBPCDIR)/%)

43 CLOBBERFILES += $(LIBPCSRC)

45 #
46 # Ensure 'all' is the default target.
47 #
48 all:

50 $(ROOTLIBPCDIR):
51     $(INS.dir)

53 $(ROOTLIBPC): $(ROOTLIBPCDIR) $(LIBPCSRC)
54     $(INS.file) $(LIBPCSRC)

56 $(LIBPCSRC): ../common/$(LIBPCSRC).in
```

new/usr/src/lib/policykit/Makefile.com

2

```
57 $(SED) -e "s@__VERSION__@$(POLICYKIT_VERSION)@" \
58 < ../common/$(LIBPCSRC).in > $(LIBPCSRC)
```

new/usr/src/pkg/Makefile

1

```
*****
25412 Mon Jan 11 15:37:02 2016
new/usr/src/pkg/Makefile
pkg: If the adjunct proto is a package image, use it for dependency resolution
*****

1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #

22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2015, OmniTI Computer Consulting, Inc. All rights reserved.
25 # Copyright 2015 Igor Kozhukhov <ikozhukhov@gmail.com>
26 #

28 include $(SRC)/Makefile.master
29 include $(SRC)/Makefile.builddnum

31 #
32 # Make sure we're getting a consistent execution environment for the
33 # embedded scripts.
34 #
35 SHELL= /usr/bin/ksh93

37 #
38 # To suppress package dependency generation on any system, regardless
39 # of how it was installed, set SUPPRESSPKGDEP=true in the build
40 # environment.
41 #
42 SUPPRESSPKGDEP= false

44 #
45 # Comment this line out or set "PKGDEBUG=" in your build environment
46 # to get more verbose output from the make processes in usr/src/pkg
47 #
48 PKGDEBUG= @

50 #
51 # Cross platform packaging notes
52 #
53 # By default, we package the proto area from the same architecture as
54 # the packaging build. In other words, if you're running nightly or
55 # bldenv on an x86 platform, it will take objects from the x86 proto
56 # area and use them to create x86 repositories.
57 #
58 # If you want to create repositories for an architecture that's
59 # different from $(uname -p), you do so by setting PKGMACH in your
60 # build environment.
61 #
```

new/usr/src/pkg/Makefile

2

```
62 # For this to work correctly, the following must all happen:
63 #
64 # 1. You need the desired proto area, which you can get either by
65 #    doing a gatekeeper-style build with the -U option to
66 #    nightly(1), or by using rsync. If you don't do this, you will
67 #    get packaging failures building all packages, because pkgsend
68 #    is unable to find the required binaries.
69 # 2. You need the desired tools proto area, which you can get in the
70 #    same ways as the normal proto area. If you don't do this, you
71 #    will get packaging failures building onbld, because pkgsend is
72 #    unable to find the tools binaries.
73 # 3. The remainder of this Makefile should never refer directly to
74 #    $(MACH). Instead, $(PKGMACH) should be used whenever an
75 #    architecture-specific path or token is needed. If this is done
76 #    incorrectly, then packaging will fail, and you will see the
77 #    value of $(uname -p) instead of the value of $(PKGMACH) in the
78 #    commands that fail.
79 # 4. Each time a rule in this Makefile invokes $(MAKE), it should
80 #    pass PKGMACH=$(PKGMACH) explicitly on the command line. If
81 #    this is done incorrectly, then packaging will fail, and you
82 #    will see the value of $(uname -p) instead of the value of
83 #    $(PKGMACH) in the commands that fail.
84 #
85 # Refer also to the convenience targets defined later in this
86 # Makefile.
87 #
88 PKGMACH= $(MACH)

90 #
91 # ROOT, TOOLS_PROTO, and PKGARCHIVE should be set by nightly or
92 # bldenv. These macros translate them into terms of $PKGMACH, instead
93 # of $ARCH.
94 #
95 PKGROOT.cmd= print $(ROOT) | sed -e s:/root_$(MACH):/root_$(PKGMACH):
96 PKGROOT= $(PKGROOT.cmd:sh)
97 TOOLSROOT.cmd= print $(TOOLS_PROTO) | sed -e s:/root_$(MACH):/root_$(PKGMACH):
98 TOOLSROOT= $(TOOLSROOT.cmd:sh)
99 PKGDEST.cmd= print $(PKGARCHIVE) | sed -e s:/$(MACH):/$(PKGMACH):/
100 PKGDEST= $(PKGDEST.cmd:sh)

102 EXCEPTIONS= packaging

104 PKGMOGRIFY= pkgmogrify

106 #
107 # Always build the redistributable repository, but only build the
108 # nonredistributable bits if we have access to closed source.
109 #
110 # Some objects that result from the closed build are still
111 # redistributable, and should be packaged as part of an open-only
112 # build. Access to those objects is provided via the closed-bins
113 # tarball. See usr/src/tools/scripts/bindrop.sh for details.
114 #
115 REPOS= redistrib

117 #
118 # The packages directory will contain the processed manifests as
119 # direct build targets and subdirectories for package metadata extracted
120 # incidentally during manifest processing.
121 #
122 # Nothing underneath $(PDIR) should ever be managed by SCM.
123 #
124 PDIR= packages.$(PKGMACH)

126 #
127 # The tools proto must be specified for dependency generation.
```

new/usr/src/pkg/Makefile

3

```

128 # Publication from the tools proto area is managed in the
129 # publication rule.
130 #
131 $(PDIR)/developer-build-onbld.dep:= PKGROOT= $(TOOLSR00T)

133 PKGPUBLISHER= $(PKGPUBLISHER_REDIST)

135 #
136 # To get these defaults, manifests should simply refer to $(PKGVERS).
137 #
138 PKGVERS_COMPONENT= 0.$(RELEASE)
139 PKGVERS_BUILTON= $(RELEASE)
140 PKGVERS_BRANCH= 0.$(ONNV_BUILDNUM)
141 PKGVERS= $(PKGVERS_COMPONENT),$(PKGVERS_BUILTON)-$(PKGVERS_BRANCH)

143 #
144 # The ARCH32 and ARCH64 macros are used in the manifests to express
145 # architecture-specific subdirectories in the installation paths
146 # for isaexec'd commands.
147 #
148 # We can't simply use $(MACH32) and $(MACH64) here, because they're
149 # only defined for the build architecture. To do cross-platform
150 # packaging, we need both values.
151 #
152 i386_ARCH32= i86
153 sparc_ARCH32= sparcv7
154 i386_ARCH64= amd64
155 sparc_ARCH64= sparcv9

157 #
158 # macros and transforms needed by pkgmogrify
159 #
160 # If you append to this list using target-specific assignments (:=),
161 # be very careful that the targets are of the form $(PDIR)/pkgname. If
162 # you use a higher level target, or a package list, you'll trigger a
163 # complete reprocessing of all manifests because they'll fail command
164 # dependency checking.
165 #
166 PM_TRANSFORMS= common_actions publish restart_fmri facets defaults \
167               extract_metadata
168 PM_INC= transforms manifests

170 PKGMOG_DEFINES= \
171     i386_ONLY=$(POUND_SIGN) \
172     sparc_ONLY=$(POUND_SIGN) \
173     $(PKGSMACH)_ONLY= \
174     ARCH=$(PKGSMACH) \
175     ARCH32=$(PKGSMACH)_ARCH32 \
176     ARCH64=$(PKGSMACH)_ARCH64 \
177     PKGVERS_COMPONENT=$(PKGVERS_COMPONENT) \
178     PKGVERS_BUILTON=$(PKGVERS_BUILTON) \
179     PKGVERS_BRANCH=$(PKGVERS_BRANCH) \
180     PKGVERS=$(PKGVERS) \
181     PERL_ARCH=$(PERL_ARCH) \
182     PERL_VERSION=$(PERL_VERSION) \
183     PERL_PKGVERS=$(PERL_PKGVERS)

185 PKGDEP_TOKENS_i386= \
186     'PLATFORM=i86hvm' \
187     'PLATFORM=i86pc' \
188     'PLATFORM=i86xpv' \
189     'ISALIST=amd64' \
190     'ISALIST=i386'
191 PKGDEP_TOKENS_sparc= \
192     'PLATFORM=sun4u' \
193     'PLATFORM=sun4v' \

```

new/usr/src/pkg/Makefile

4

```

194     'ISALIST=sparcv9' \
195     'ISALIST=sparc'
196 PKGDEP_TOKENS= $(PKGDEP_TOKENS_$(PKGSMACH))

198 #
199 # The package lists are generated with $(PKGDEP_TYPE) as their
200 # dependency types, so that they can be included by either an
201 # incorporation or a group package.
202 #
203 $(PDIR)/osnet-redist.mog := PKGDEP_TYPE= require
204 $(PDIR)/osnet-incorporation.mog:= PKGDEP_TYPE= incorporate

206 PKGDEP_INCORP= \
207     depend_fmri=consolidation/osnet/osnet-incorporation type=require

209 #
210 # All packaging build products should go into $(PDIR), so they don't
211 # need to be included separately in CLOBBERFILES.
212 #
213 CLOBBERFILES= $(PDIR) proto_list_$(PKGSMACH) install-$(PKGSMACH).out \
214     license-list

216 #
217 # By default, PKGS will list all manifests. To build and/or publish a
218 # subset of packages, override this on the command line or in the
219 # build environment and then reference (implicitly or explicitly) the all
220 # or install targets. Using ls -1 (that's a one) or print or echo to
221 # get the list of manifests is a little hackish, but avoids having a
222 # 900+ line file to explicitly list them all.
223 #
224 # We want some manifests to optionally built based on environment
225 # options, so those are excluded and optionally added back in.
226 # We also want a relatively easy way to add files to the list of
227 # manifests given special treatment. Add any other special ones
228 # to the SPECIAL_MANIFESTS variable. It can contain wildcards in
229 # regexp form, i.e. SUNW.* as one useful example.
230 #
231 SPECIAL_MANIFESTS = print-lp-ipp-ipp-listener.mf
232 LIST_MANIFESTS_CMD = (cd manifests ; /usr/bin/ls -1 *.mf | \
233     $(SED) $(SPECIAL_MANIFESTS:%=-e '/^%$/d'))
234 MANIFESTS = $(LIST_MANIFESTS_CMD:sh)

236 # Conditionally add back lp-ipp
237 $(ENABLE_IPP_PRINTING) MANIFESTS += print-lp-ipp-ipp-listener.mf

239 PKGS= $(MANIFESTS:%.mf=%)
240 DEP_PKGS= $(PKGS:%=$(PDIR)/%.dep)
241 PROC_PKGS= $(PKGS:%=$(PDIR)/%.mog)

243 #
244 # Track the synthetic manifests separately so we can properly express
245 # build rules and dependencies. The synthetic and real packages use
246 # different sets of transforms and macros for pkgmogrify.
247 #
248 SYNTH_PKGS= osnet-incorporation osnet-redist
249 DEP_SYNTH_PKGS= $(SYNTH_PKGS:%=$(PDIR)/%.dep)
250 PROC_SYNTH_PKGS= $(SYNTH_PKGS:%=$(PDIR)/%.mog)

252 #
253 # Root of pkg image to use for dependency resolution Normally / on the machine
254 # used to build the binaries, or the ADJUNCT_PROTO
255 # Root of pkg image to use for dependency resolution
256 # Normally / on the machine used to build the binaries
257 #
258 PKG_ADJUNCT.cmd= if [[ -d ${ADJUNCT_PROTO}/var/pkg ]]; then \
259     echo ${ADJUNCT_PROTO}; \

```

```

258     else      \
259         echo /; \
260     fi

262 PKGDEP_RESOLVE_IMAGE = ${PKG_ADJUNCT.cmd:sh}
256 PKGDEP_RESOLVE_IMAGE = /

264 #
265 # For each package, we determine the target repository based on
266 # manifest-embedded metadata. Because we make that determination on
267 # the fly, the publication target cannot be expressed as a
268 # subdirectory inside the unknown-by-the-makefile target repository.
269 #
270 # In order to limit the target set to real files in known locations,
271 # we use a ".pub" file in $(PDIR) for each processed manifest, regardless
272 # of content or target repository.
273 #
274 PUB_PKGS= $(SYNTH_PKGS:%=$(PDIR)/%.pub) $(PKGS:%=$(PDIR)/%.pub)

276 #
277 # Any given repository- and status-specific package list may be empty,
278 # but we can only determine that dynamically, so we always generate all
279 # lists for each repository we're building.
280 #
281 # The meanings of each package status are as follows:
282 #
283 #     PKGSTAT      meaning
284 #     -----
285 #     noincorp      Do not include in incorporation or group package
286 #     obsolete      Include in incorporation, but not group package
287 #     renamed        Include in incorporation, but not group package
288 #     current        Include in incorporation and group package
289 #
290 # Since the semantics of the "noincorp" package status dictate that
291 # such packages are not included in the incorporation or group packages,
292 # there is no need to build noincorp package lists.
293 #
294 PKGLISTS= \
295     ${REPOS:%=$(PDIR)/packages.%.current} \
296     ${REPOS:%=$(PDIR)/packages.%.renamed} \
297     ${REPOS:%=$(PDIR)/packages.%.obsolete}

299 .KEEP_STATE:

301 .PARALLEL: $(PKGS) $(PROC_PKGS) $(DEP_PKGS) \
302     $(PROC_SYNTH_PKGS) $(DEP_SYNTH_PKGS) $(PUB_PKGS)

304 #
305 # For a single manifest, the dependency chain looks like this:
306 #
307 #     raw manifest (mypkg.mf)
308 #     |
309 #     use pkgmogrify to process raw manifest
310 #     |
311 #     processed manifest (mypkg.mog)
312 #     |
313 #     * use pkgdepend generate to generate dependencies
314 #     |
315 #     manifest with TBD dependencies (mypkg.dep)
316 #     |
317 #     % use pkgdepend resolve to resolve dependencies
318 #     |
319 #     manifest with dependencies resolved (mypkg.res)
320 #     |
321 #     use pkgsend to publish the package
322 #

```

```

323 #     placeholder to indicate successful publication (mypkg.pub)
324 #
325 # * This may be suppressed via SUPPRESSPKGDEP. The resulting
326 # packages will install correctly, but care must be taken to
327 # install all dependencies, because pkg will not have the input
328 # it needs to determine this automatically.
329 #
330 # % This is included in this diagram to make the picture complete, but
331 # this is a point of synchronization in the build process.
332 # Dependency resolution is actually done once on the entire set of
333 # manifests, not on a per-package basis.
334 #
335 # The full dependency chain for generating everything that needs to be
336 # published, without actually publishing it, looks like this:
337 #
338 #     processed synthetic packages
339 #     |
340 #     package lists      synthetic package manifests
341 #     |
342 #     processed real packages
343 #     |
344 #     package dir      real package manifests
345 #
346 # Here, each item is a set of real or synthetic packages. For this
347 # portion of the build, no reference is made to the proto area. It is
348 # therefore suitable for the "all" target, as opposed to "install."
349 #
350 # Since each of these steps is expressed explicitly, "all" need only
351 # depend on the head of the chain.
352 #
353 # From the end of manifest processing, the publication dependency
354 # chain looks like this:
355 #
356 #     repository metadata (catalogs and search indices)
357 #     |
358 #     pkgrepo refresh
359 #     |
360 #     published packages
361 #     |
362 #     pkgsend publish
363 #     |
364 #     repositories      resolved dependencies
365 #     |
366 #     pkgsend      pkgdepend resolve
367 #     create-repository
368 #     |
369 #     repo directories      generated dependencies
370 #     |
371 #     pkgdepend
372 #     |
373 #     processed manifests

375 ALL_TARGETS= $(PROC_SYNTH_PKGS) proto_list_${PKGMACh}

377 all: $(ALL_TARGETS)

379 #
380 # This will build the directory to contain the processed manifests
381 # and the metadata symlinks.
382 #
383 $(PDIR):
384     @print "Creating $@"
385     ${PKGDEBUg}$(INS.dir)

387 #
388 # This rule resolves dependencies across all published manifests.

```

```

389 #
390 # We shouldn't have to ignore the error from pkgdepend, but until
391 # 16012 and its dependencies are resolved, pkgdepend will always exit
392 # with an error.
393 #
394 $(PDIR)/gendeps: $(DEP_SYNTH_PKGS) $(DEP_PKGS)
395     -$(PKGDEBUG)if [ "$$(SUPPRESSPKGDEP)" = "true" ]; then \
396         print "Suppressing dependency resolution"; \
397         for p in $(DEP_PKGS:%.dep=%); do \
398             $(CP) $$p.dep $$p.res; \
399         done; \
400     else \
401         print "Resolving dependencies"; \
402         pkgdepend -R $(PKGDEP_RESOLVE_IMAGE) resolve \
403             -m $(DEP_SYNTH_PKGS) $(DEP_PKGS); \
404         for p in $(DEP_SYNTH_PKGS:%.dep=%) $(DEP_PKGS:%.dep=%); do \
405             if [ "$$(print $$p.metadata.*)" = \
406                 "$$(print $$p.metadata.noincorp.*)" ]; \
407             then \
408                 print "Removing dependency versions from $$p"; \
409                 $(PKMGRIFY) $(PKMGR_VERBOSE) \
410                     -O $$p.res -I transforms \
411                     strip_versions $$p.dep.res; \
412                 $(RM) $$p.dep.res; \
413             else \
414                 $(MV) $$p.dep.res $$p.res; \
415             fi; \
416         done; \
417     fi
418     $(PKGDEBUG)$(TOUCH) $(@)

420 install: $(ALL_TARGETS) repository-metadata

422 repository-metadata: publish_pkgs
423     $(PKGDEBUG)for r in $(REPOS); do \
424         pkgrepo refresh -s $(PKGDEST)/repo.$$r; \
425     done

427 #
428 # Since we create zero-length processed manifests for a graceful abort
429 # from pkgmgrify, we need to detect that here and make no effort to
430 # publish the package.
431 #
432 # For all other packages, we publish them regardless of status. We
433 # derive the target repository as a component of the metadata-derived
434 # symlink for each package.
435 #
436 publish_pkgs: $(REPOS:%=$(PKGDEST)/repo.%) $(PDIR)/gendeps .WAIT $(PUB_PKGS)

438 #
439 # Before publishing, we want to pull the license files from $CODEMGR_WS
440 # into the proto area. This allows us to NOT pass $SRC (or
441 # $CODEMGR_WS) as a basedir for publication.
442 #
443 $(PUB_PKGS): stage-licenses

445 #
446 # Initialize the empty on-disk repositories
447 #
448 $(REPOS:%=$(PKGDEST)/repo.%) :
449     @print "Initializing $(@F)"
450     $(PKGDEBUG)$(INS.dir)
451     $(PKGDEBUG)pkgset -s file://$(@) create-repository \
452         --set-property publisher.prefix=$(PKG_PUBLISHER)

454 #

```

```

455 # rule to process real manifests
456 #
457 # To allow redistributability and package status to change, we must
458 # remove not only the actual build target (the processed manifest), but
459 # also the incidental ones (the metadata-derived symlinks).
460 #
461 # If pkgmgrify exits cleanly but fails to create the specified output
462 # file, it means that it encountered an abort directive. That means
463 # that this package should not be published for this particular build
464 # environment. Since we can't prune such packages from $(PKGS)
465 # retroactively, we need to create an empty target file to keep make
466 # from trying to rebuild it every time. For these empty targets, we
467 # do not create metadata symlinks.
468 #
469 # Automatic dependency resolution to files is also done at this phase of
470 # processing. The skipped packages are skipped due to existing bugs
471 # in pkgdepend.
472 #
473 # The incorporation dependency is tricky: it needs to go into all
474 # current and renamed manifests (ie all incorporated packages), but we
475 # don't know which those are until after we run pkgmgrify. So
476 # instead of expressing it as a transform, we tack it on ex post facto.
477 #
478 # Implementation notes:
479 #
480 # - The first $(RM) must not match other manifests, or we'll run into
481 #   race conditions with parallel manifest processing.
482 #
483 # - The make macros [ie $(MACRO)] are evaluated when the makefile is
484 #   read in, and will result in a fixed, macro-expanded rule for each
485 #   target enumerated in $(PROC_PKGS).
486 #
487 # - The shell variables (ie $$VAR) are assigned on the fly, as the rule
488 #   is executed. The results may only be referenced in the shell in
489 #   which they are assigned, so from the perspective of make, all code
490 #   that needs these variables needs to be part of the same line of
491 #   code. Hence the use of command separators and line continuation
492 #   characters.
493 #
494 # - The extract_metadata transforms are designed to spit out shell
495 #   variable assignments to stdout. Those are published to the
496 #   .vars temporary files, and then used as input to the eval
497 #   statement. This is done in stages specifically so that pkgmgrify
498 #   can signal failure if the manifest has a syntactic or other error.
499 #   The eval statement should begin with the default values, and the
500 #   output from pkgmgrify (if any) should be in the form of a
501 #   variable assignment to override those defaults.
502 #
503 # - When this rule completes execution, it must leave an updated
504 #   target file ($@) in place, or make will reprocess the package
505 #   every time it encounters it as a dependency. Hence the "touch"
506 #   statement to ensure that the target is created, even when
507 #   pkgmgrify encounters an abort in the publish transforms.
508 #

510 .SUFFIXES: .mf .mog .dep .res .pub

512 $(PDIR)/%.mog: manifests/%.mf
513     @print "Processing manifest $(<F)"
514     @env PKG_FMT_OUTPUT=v1 pkgfmt -c <
515     $(PKGDEBUG)$(RM) $(@) $@:%.mog=%) $@:%.mog=%.nodepend) \
516         $@:%.mog=%.lics) $(PDIR)/$(@F:%.mog=%.metadata.* $@).vars
517     $(PKGDEBUG)$(PKMGRIFY) $(PKMGR_VERBOSE) $(PM_INC:%=-I %) \
518         $(PKMGR_DEFINES:%=-D %) -P $@.vars -O $@ \
519         $(<) $(PM_TRANSFORMS)
520     $(PKGDEBUG)eval REPO=redist PKGSTAT=current NODEPEND=$(SUPPRESSPKGDEP) \

```

```

521     '$(CAT) -s $(@).vars'; \
522     if [ -f $(@) ]; then \
523         if [ "$$NODEPEND" != "false" ]; then \
524             $(TOUCH) $(@:%.mog=%.nodepend); \
525         fi; \
526         $(LN) -s $(@F) \
527             $(PDIR)/$(@F:%.mog=%.metadata.$$PKGSTAT.$$REPO; \
528         if [ \[ "$$PKGSTAT" = "current" \] -o \
529             \[ "$$PKGSTAT" = "renamed" \] ]; \
530             then print $(PKGDEP_INCORP) >> $(@); \
531         fi; \
532         print $$LICS > $(@:%.mog=%.lics); \
533     else \
534         $(TOUCH) $(@) $(@:%.mog=%.lics); \
535     fi
536     $(PKGDEBUG)$(RM) $(@).vars

538 $(PDIR)/%.dep: $(PDIR)/%.mog
539     @print "Generating dependencies for $(<F)"
540     $(PKGDEBUG)$(RM) $(@)
541     $(PKGDEBUG)if [ ! -f $(@:%.dep=%.nodepend) ]; then \
542         pkgdepend generate -m $(PKGDEP_TOKENS:%=-D %) $(<) \
543             $(PKGROOT) > $(@); \
544     else \
545         $(CP) $(<) $(@); \
546     fi

548 #
549 # The full chain implies that there should be a .dep.res suffix rule,
550 # but dependency generation is done on a set of manifests, rather than
551 # on a per-manifest basis. Instead, see the gendeps rule above.
552 #

554 $(PDIR)/%.pub: $(PDIR)/%.res
555     $(PKGDEBUG)m=$$(basename $(@:%.pub=%.metadata.*)); \
556     r=$${m#$(@F:%.pub=%.metadata.)+(?.).}; \
557     if [ -s $(<) ]; then \
558         print "Publishing $(@F:%.pub=%) to $$r repository"; \
559         pkgsend -s file://$(PKGDEST)/repo.$$r publish \
560             -d $(PKGROOT) -d $(TOOLSROOT) \
561             -d license_files -d $(PKGROOT)/licenses \
562             --fmri-in-manifest --no-index --no-catalog $(<) \
563             > /dev/null; \
564     fi; \
565     $(TOUCH) $(@);

567 #
568 # rule to build the synthetic manifests
569 #
570 # This rule necessarily has PKGDEP_TYPE that changes according to
571 # the specific synthetic manifest. Rather than escape command
572 # dependency checking for the real manifest processing, or failing to
573 # express the (indirect) dependency of synthetic manifests on real
574 # manifests, we simply split this rule out from the one above.
575 #
576 # The implementation notes from the previous rule are applicable
577 # here, too.
578 #
579 $(PROC_SYNTH_PKGS): $(PKGLISTS) $$(@F:%.mog=%.mf)
580     @print "Processing synthetic manifest $(@F:%.mog=%.mf)"
581     $(PKGDEBUG)$(RM) $(@) $(PDIR)/$(@F:%.mog=%.metadata.* $(@).vars
582     $(PKGDEBUG)$(PKGMOGRIFY) $(PKGMOG_VERBOSE) -I transforms -I $(PDIR) \
583         $(PKGMOG_DEFINES:%=-D %) -D PKGDEP_TYPE=$(PKGDEP_TYPE) \
584         -P $(@).vars -o $(@) $(@F:%.mog=%.mf) \
585         $(PM_TRANSFORMS) synthetic
586     $(PKGDEBUG)eval REPO=redist PKGSTAT=current '$(CAT) -s $(@).vars'; \

```

```

587     if [ -f $(@) ]; then \
588         $(LN) -s $(@F) \
589             $(PDIR)/$(@F:%.mog=%.metadata.$$PKGSTAT.$$REPO; \
590     else \
591         $(TOUCH) $(@); \
592     fi
593     $(PKGDEBUG)$(RM) $(@).vars

595 $(DEP_SYNTH_PKGS): $$(@:%.dep=%.mog)
596     @print "Skipping dependency generation for $(@F:%.dep=%)"
597     $(PKGDEBUG)$(CP) $(@:%.dep=%.mog) $(@)

599 clean:

601 clobber: clean
602     $(RM) -r $(CLOBBERVERFILES)

604 #
605 # This rule assumes that all links in the PKGSTAT directories
606 # point to valid manifests, and will fail the make run if one
607 # does not contain an fmri.
608 #
609 # We do this in the BEGIN action instead of using pattern matching
610 # because we expect the fmri to be at or near the first line of each input
611 # file, and this way lets us avoid reading the rest of the file after we
612 # find what we need.
613 #
614 # We keep track of a failure to locate an fmri, so we can fail the
615 # make run, but we still attempt to process each package in the
616 # repo/pkgstat-specific subdirs, in hopes of maybe giving some
617 # additional useful info.
618 #
619 # The protolist is used for bfu archive creation, which may be invoked
620 # interactively by the user. Both protolist and PKGLISTS targets
621 # depend on $(PROC_PKGS), but protolist builds them recursively.
622 # To avoid collisions, we insert protolist into the dependency chain
623 # here. This has two somewhat subtle benefits: it allows bfu archive
624 # creation to work correctly, even when -a was not part of NIGHTLY_OPTIONS,
625 # and it ensures that a protolist file here will always correspond to the
626 # contents of the processed manifests, which can vary depending on build
627 # environment.
628 #
629 $(PKGLISTS): $(PROC_PKGS)
630     $(PKGDEBUG)sdotr=$(@F:packages.%=); \
631     r=$${sdotr%+(?.).}; s=$${sdotr#+(?.).}; \
632     print "Generating $$r $$s package list"; \
633     $(RM) $(@); $(TOUCH) $(@); \
634     $(AWK) 'BEGIN { \
635         if (ARGC < 2) { \
636             exit; \
637         } \
638         retcode = 0; \
639         for (i = 1; i < ARGC; i++) { \
640             do { \
641                 e = getline f < ARGV[i]; \
642             } while ((e == 1) && (f !~ /name=pkg.fmri/)); \
643             close(ARGV[i]); \
644             if (e == 1) { \
645                 l = split(f, a, "="); \
646                 print "depend fmri=" a[1], \
647                     "type=$(PKGDEP_TYPE)"; \
648             } else { \
649                 print "no fmri in " ARGV[i] >> "/dev/stderr"; \
650                 retcode = 2; \
651             } \
652         } \

```

```

553         exit retcode; \
554     } 'find $(PDIR) -type l -a \( $(PKGKS:=-name %.metadata.$$.s$R -o) \
555         -name NOSUCHFILE \)' >> $(@)

557 #
558 # rules to validate proto area against manifests, check for safe
559 # file permission modes, and generate a faux proto list
560 #
561 # For the check targets, the dependencies on $(PROC_PKG) is specified
562 # as a subordinate make process in order to suppress output.
563 #
564 makesilent:
565     @$(MAKE) -e $(PROC_PKG) PKGMACH=$(PKGMACH) \
566         SUPPRESSPKGDEP=$(SUPPRESSPKGDEP) > /dev/null

568 #
569 # The .lics files were created during pkgmogrification, and list the
570 # set of licenses to pull from $SRC for each package. Because
571 # licenses may be duplicated between packages, we uniquify them as
572 # well as aggregating them here.
573 #
574 license-list: makesilent
575     $(PKGDEBUG)( for l in `cat $(PROC_PKG:mog=%.lics)`; \
576         do print $l; done ) | sort -u > $@

578 #
579 # Staging the license and description files in the proto area allows
580 # us to do proper unreferenced file checking of both license and
581 # description files without blanket exceptions, and to pull license
582 # content without reference to $CODEMGR_WS during publication.
583 #
584 stage-licenses: license-list FRC
585     $(PKGDEBUG)$(MAKE) -e -f Makefile.lic \
586         PKGDEBUG=$(PKGDEBUG) LICROOT=$(PKGROOT)/licenses \
587         '$(AWK) '{ \
588             print "$(PKGROOT)/licenses/" $$0; \
589             print "$(PKGROOT)/licenses/" $$0 ".descrip"; \
590         }' license-list' > /dev/null;

592 protocmp: makesilent
593     @validate_pkg -a $(PKGMACH) -v \
594         $(EXCEPTIONS:=-e $(CODEMGR_WS)/exception_lists/%) \
595         -m $(PDIR) -p $(PKGROOT) -p $(TOOLSR00T)

597 pmodes: makesilent
598     @validate_pkg -a $(PKGMACH) -M -m $(PDIR) \
599         -e $(CODEMGR_WS)/exception_lists/pmodes

701 check: protocmp pmodes

703 protolist: proto_list_$(PKGMACH)

705 proto_list_$(PKGMACH): $(PROC_PKG)
706     @validate_pkg -a $(PKGMACH) -L -m $(PDIR) > $(@)

708 $(PROC_PKG): $(PDIR)

710 #
711 # This is a convenience target to allow package names to function as
712 # build targets. Generally, using it is only useful when iterating on
713 # development of a manifest.
714 #
715 # When processing a manifest, use the basename (without extension) of
716 # the package. When publishing, use the basename with a ".pub"
717 # extension.
718 #

```

```

719 # Other than during manifest development, the preferred usage is to
720 # avoid these targets and override PKGS on the make command line and
721 # use the provided all and install targets.
722 #
723 $(PKGS) $(SYNTH_PKGS): $(PDIR)/$$(@:%=.mog)
724
725 $(PKGS:%=.pub) $(SYNTH_PKGS:%=.pub): $(PDIR)/$$(@)
726
727 #
728 # This is a convenience target to resolve dependencies without publishing
729 # packages.
730 #
731 gendeps: $(PDIR)/gendeps
732
733 #
734 # These are convenience targets for cross-platform packaging. If you
735 # want to build any of "the normal" targets for a different
736 # architecture, simply use "arch/target" as your build target.
737 #
738 # Since the most common use case for this is "install," the architecture
739 # specific install targets have been further abbreviated to elide "/install."
740 #
741 i386% sparc%:
742     $(MAKE) -e $(@F) PKGMACH=$(@D) SUPPRESSPKGDEP=$(SUPPRESSPKGDEP)
743
744 i386 sparc: $$(@)/install
745
746 FRC:

```

new/usr/src/tools/ctf/Makefile.ctf

1

1578 Mon Jan 11 15:37:03 2016
new/usr/src/tools/ctf/Makefile.ctf
native tools must reliably use a native adjunct, even if that's inconvenient
While it is perhaps convenient for native tools to use updated versions
of certain things like libxml it is imperative that those versions are
also build for the build machine. Thus they need to be in the native
adjunct (even if that native adjunct is thus not /).
Fix the native adjunct to be rooted similarly to the adjunct proto (that
is, at /), and fix SMF to use it correctly

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 include ../../../Makefile.tools

28 #
29 # A 'make install' from the tools directory needs to work, even if the rest of
30 # the tree hasn't been built. As such, we need to tell the ctf builds how
31 # to find the ctf specific headers located outside the tools subtree. We also
32 # want to tell them how to get to the common tools source files.
33 #
34 # For additional details on the ordering of includes via -I, see the comments
35 # in $(SRC)/tools/ctf/common/ctf_headers.h.
36 #

38 HDRDIRS= \
39     -_gcc=-nostdinc \
40     -I ../../common \
41     -I$(SRC) \
42     -I/usr/include \
43     -I$(SRC)/uts/common \
44     -I$(NATIVE_ADJUNCT)/usr/include
44     -I$(NATIVE_ADJUNCT)/include

46 CPPFLAGS += $(HDRDIRS)
47 CFLAGS += $(CCVERBOSE)
48 CERRWARN += -_gcc=-Wno-parentheses
```

new/usr/src/tools/ctf/cvt/Makefile.com

1

```
*****
1984 Mon Jan 11 15:37:03 2016
new/usr/src/tools/ctf/cvt/Makefile.com
native tools must reliably use a native adjunct, even if that's inconvenient
While it is perhaps convenient for native tools to use updated versions
of certain things like libxml it is imperative that those versions are
also build for the build machine. Thus they need to be in the native
adjunct (even if that native adjunct is thus not /).
Fix the native adjunct to be rooted similarly to the adjunct proto (that
is, at /), and fix SMF to use it correctly
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #

26 include ../../Makefile.ctf

28 .KEEP_STATE:
29 .PARALLEL:

31 PROG=ctfconvert ctfmerge

33 GENSRCS= \
34     alist.c \
35     barrier.c \
36     ctf.c \
37     fifo.c \
38     hash.c \
39     iidesc.c \
40     input.c \
41     list.c \
42     memory.c \
43     merge.c \
44     output.c \
45     stack.c \
46     strtab.c \
47     symbol.c \
48     tdata.c \
49     traverse.c \
50     util.c

52 CVTSRCS=$(GENSRCS) \
53     ctfconvert.c \
54     dwarf.c \
55     stabs.c \
```

new/usr/src/tools/ctf/cvt/Makefile.com

2

```
56     fixup_tdescs.c \
57     st_parse.c
58 CVTOBJS=$(CVTSRCS:.c=.o)
59 CVTLINTFILES = $(CVTSRCS:.c=.ln)

61 MRGSRCS=$(GENSRCS) \
62     ctfmerge.c
63 MRGOBJS=$(MRGSRCS:.c=.o)
64 MRGLINTFILES = $(MRGSRCS:.c=.ln)

66 SRCS=$(CVTSRCS) $(MRGSRCS) $(CMPSRCS)
67 OBJS=$(SRCS:.c=.o)
68 LINTFILES=$(SRCS:.c=.ln)

70 DWARFLDFLAGS = \
71     -L$(ROOTONBLDLIBMACH) \
72     '-R$$ORIGIN/../../lib/$(MACH)' \
73     -ldwarf
74 DWARFCPPFLAGS = -I../../dwarf/common

76 LDFLAGS += -L$(NATIVE_ADJUNCT)/usr/lib
76 LDFLAGS += -L$(NATIVE_ADJUNCT)/lib
77 LDLIBS += -lz -lelf
78 CPPFLAGS += -D_REENTRANT
79 CFLAGS += $(CTF_FLAGS)
80 LINTFLAGS += -mnux

82 CERRWARN += -_gcc=-Wno-unused
83 CERRWARN += -_gcc=-Wno-uninitialized
84 CERRWARN += -_gcc=-Wno-switch

86 C99MODE = $(C99_ENABLE)

88 ctfconvert := LDFLAGS += $(DWARFLDFLAGS)

90 dwarf.o dwarf.ln := CPPFLAGS += $(DWARFCPPFLAGS)
```

new/usr/src/tools/ctf/dump/Makefile.com

1

```
*****
1539 Mon Jan 11 15:37:04 2016
new/usr/src/tools/ctf/dump/Makefile.com
native tools must reliably use a native adjunct, even if that's inconvenient
While it is perhaps convenient for native tools to use updated versions
of certain things like libxml it is imperative that those versions are
also build for the build machine. Thus they need to be in the native
adjunct (even if that native adjunct is thus not /).
Fix the native adjunct to be rooted similarly to the adjunct proto (that
is, at /), and fix SMF to use it correctly
*****
```

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
```

```
26 .KEEP_STATE:
27 .SUFFIXES:
```

```
29 PROG = ctfdump
30 SRCS = dump.c utils.c symbol.c
```

```
32 include ../../Makefile.ctf
```

```
34 LDFLAGS += -L$(NATIVE_ADJUNCT)/usr/lib
34 LDFLAGS += -L$(NATIVE_ADJUNCT)/lib
35 LDLIBS += -lelf -lz
```

```
37 OBJS = $(SRCS:%.c=%.o)
38 LINTFILES = $(SRCS:%.c=%.ln)
```

```
40 CERRWARN += -_gcc=-Wno-uninitialized
```

```
42 .NO_PARALLEL:
43 .PARALLEL: $(OBJS) $(LINTFILES)
```

```
45 all: $(PROG)
```

```
47 $(PROG): $(OBJS)
48     $(LINK.c) $(OBJS) -o $@ $(LDLIBS)
49     $(POST_PROCESS)
```

```
51 %.o: ../../%.c
52     $(COMPILE.c) $<
```

```
54 $(ROOTONBLDMACHPROG): $(PROG)
```

new/usr/src/tools/ctf/dump/Makefile.com

2

```
56 install: $(ROOTONBLDMACHPROG)
```

```
58 clean:
59     $(RM) $(OBJS) $(LINTFILES)
```

```
61 %.ln: ../../%.c
62     $(LINT.c) -c $<
```

```
64 lint: $(LINTFILES)
65     $(LINT) $(LINTFLAGS) $(LINTFILES) $(LDLIBS)
```

```
67 include ../../Makefile.ctf.targ
```