

```

*****
35973 Thu Jan 25 19:54:33 2018
new/usr/src/Makefile.master
8571 Makefile.master should not trust $PATH
*****
1 #
2 # CDDL HEADER START
3 #
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6 # You may not use this file except in compliance with the License.
7 #
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18 #
19 # CDDL HEADER END
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21 #
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27 # Copyright 2015 Gary Mills
28 # Copyright 2015 Igor Kozhukhov <ikozhukhov@gmail.com>
29 # Copyright 2016 Toomas Soome <tsoome@me.com>
30 #
31 #
32 #
33 # Makefile.master, global definitions for system source
34 #
35 ROOT=          /proto
36 #
37 #
38 # Adjunct root, containing an additional proto area to be used for headers
39 # and libraries.
40 #
41 ADJUNCT_PROTO=
42 #
43 #
44 # Adjunct for building things that run on the build machine.
45 #
46 NATIVE_ADJUNCT= /usr
47 #
48 #
49 # RELEASE_BUILD should be cleared for final release builds.
50 # NOT_RELEASE_BUILD is exactly what the name implies.
51 #
52 # __GNUC toggles the building of ON components using gcc and related tools.
53 # Normally set to '#', set it to '' to do gcc build.
54 #
55 # The declaration POUND_SIGN is always '#'. This is needed to get around the
56 # make feature that '#' is always a comment delimiter, even when escaped or
57 # quoted. We use this macro expansion method to get POUND_SIGN rather than
58 # always breaking out a shell because the general case can cause a noticable
59 # slowdown in build times when so many Makefiles include Makefile.master.
60 #
61 # While the majority of users are expected to override the setting below

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62 # with an env file (via nightly or bldenv), if you aren't building that way
63 # (ie, you're using "ws" or some other bootstrapping method) then you need
64 # this definition in order to avoid the subshell invocation mentioned above.
65 #
66 #
67 PRE_POUND=          pre\#
68 POUND_SIGN=         $(PRE_POUND:pre\#=%%)
69 #
70 NOT_RELEASE_BUILD=
71 RELEASE_BUILD=      $(POUND_SIGN)
72 $(RELEASE_BUILD)NOT_RELEASE_BUILD= $(POUND_SIGN)
73 PATCH_BUILD=       $(POUND_SIGN)
74 #
75 # SPARC_BLD is '#' for an Intel build.
76 # INTEL_BLD is '#' for a Sparc build.
77 SPARC_BLD_1=        $(MACH:i386=$(POUND_SIGN))
78 SPARC_BLD=          $(SPARC_BLD_1:sparc=)
79 INTEL_BLD_1=        $(MACH:sparc=$(POUND_SIGN))
80 INTEL_BLD=          $(INTEL_BLD_1:i386=)
81 #
82 # The variables below control the compilers used during the build.
83 # There are a number of permutations.
84 #
85 # __GNUC and __SUNC control (and indicate) the primary compiler. Whichever
86 # one is not POUND_SIGN is the primary, with the other as the shadow. They
87 # may also be used to control entirely compiler-specific Makefile assignments.
88 # __GNUC and GCC are the default.
89 #
90 # __GNUC64 indicates that the 64bit build should use the GNU C compiler.
91 # There is no Sun C analogue.
92 #
93 # The following version-specific options are operative regardless of which
94 # compiler is primary, and control the versions of the given compilers to be
95 # used. They also allow compiler-version specific Makefile fragments.
96 #
97 #
98 __SUNC=              $(POUND_SIGN)
99 $(__SUNC)__GNUC=    $(POUND_SIGN)
100 __GNUC64=           $(__GNUC)
101 #
102 # Allow build-time "configuration" to enable or disable some things.
103 # The default is POUND_SIGN, meaning "not enabled". If the environment
104 # passes in an override like ENABLE_SMB_PRINTING= (empty) that will
105 # uncomment things in the lower Makefiles to enable the feature.
106 ENABLE_SMB_PRINTING= $(POUND_SIGN)
107 #
108 # CLOSED is the root of the tree that contains source which isn't released
109 # as open source
110 CLOSED=              $(SRC)/../closed
111 #
112 # BUILD_TOOLS is the root of all tools including compilers.
113 # ONBLD_TOOLS is the root of all the tools that are part of SUNWonbld.
114 #
115 BUILD_TOOLS=        /ws/onnv-tools
116 ONBLD_TOOLS=        $(BUILD_TOOLS)/onbld
117 #
118 # define runtime JAVA_HOME, primarily for cmd/pools/poold
119 JAVA_HOME=          /usr/java
120 # define buildtime JAVA_ROOT
121 JAVA_ROOT=          /usr/java
122 # define to build with JAVA 8
123 BLD_JAVA_8=         $(POUND_SIGN)
124 #
125 GCC_ROOT=           /opt/gcc/4.4.4
126 GCCLIBDIR=          $(GCC_ROOT)/lib
127 GCCLIBDIR64=        $(GCC_ROOT)/lib/$(MACH64)

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

131 RPCGEN=      /usr/bin/rpcgen
132 STABS=      $(ONBLD_TOOLS)/bin/$(MACH)/stabs
133 ELFEXTRACT= $(ONBLD_TOOLS)/bin/$(MACH)/elfextract
134 MBH_PATCH=   $(ONBLD_TOOLS)/bin/$(MACH)/mbh_patch
135 BTXLD=      $(ONBLD_TOOLS)/bin/$(MACH)/btxld
136 VTFONTCVT=  $(ONBLD_TOOLS)/bin/$(MACH)/vtfontcvt
137 # echo(1) and true(1) are specified without absolute paths, so that the shell
138 # spawned by make(1) may use the built-in versions. This is minimally
139 # problematic, as the shell spawned by make(1) is known and under control, the
140 # only risk being if the shell falls back to $PATH.
141 #
142 # We specifically want an echo(1) that does interpolation of escape sequences,
143 # which ksh93, /bin/sh, and bash will all provide.
144 #endif /* ! codereview */
145 ECHO=      echo
146 INS=      install
147 TRUE=      true
148 #endif /* ! codereview */
149 SYMLINK=   /usr/bin/ln -s
150 LN=      /usr/bin/ln
151 CHMOD=    /usr/bin/chmod
152 MV=      /usr/bin/mv -f
153 RM=      /usr/bin/rm -f
154 CUT=     /usr/bin/cut
155 NM=      /usr/ccs/bin/nm
156 DIFF=    /usr/bin/diff
157 GREP=    /usr/bin/grep
158 EGREP=   /usr/bin/egrep
159 ELFWRAP= /usr/bin/elfwrap
160 KSH93=   /usr/bin/ksh93
161 SED=     /usr/bin/sed
162 AWK=     /usr/bin/nawk
163 CP=      /usr/bin/cp -f
164 MCS=     /usr/ccs/bin/mcs
165 CAT=     /usr/bin/cat
166 ELFDUMP= /usr/ccs/bin/elfdump
167 M4=     /usr/bin/m4
168 STRIP=   /usr/ccs/bin/strip
169 LEX=     /usr/ccs/bin/lex
170 FLEX=    /usr/bin/flex
171 YACC=    /usr/ccs/bin/yacc
172 CPP=     /usr/lib/cpp
173 JAVAC=   $(JAVA_ROOT)/bin/javac
174 JAVAH=   $(JAVA_ROOT)/bin/javah
175 JAVADOC= $(JAVA_ROOT)/bin/javadoc
176 RMIC=    $(JAVA_ROOT)/bin/rmic
177 JAR=     $(JAVA_ROOT)/bin/jar
178 CTFCONVERT= $(ONBLD_TOOLS)/bin/$(MACH)/ctfconvert
179 CTFMERGE=  $(ONBLD_TOOLS)/bin/$(MACH)/ctfmerge
180 CTFSTABS=  $(ONBLD_TOOLS)/bin/$(MACH)/ctfstabs
181 CTFSTRIP=  $(ONBLD_TOOLS)/bin/$(MACH)/ctfstrip
182 NDRGEN=    $(ONBLD_TOOLS)/bin/$(MACH)/ndrgen
183 GENOFFSETS= $(ONBLD_TOOLS)/bin/genoffsets
184 XREF=     $(ONBLD_TOOLS)/bin/xref
185 FIND=     /usr/bin/find
186 PERL=     /usr/bin/perl
187 PERL_VERSION= 5.10.0
188 PERL_PKGVERS= -510
189 PERL_ARCH =      i86pc-solaris-64int
190 $(SPARC_BLD)PERL_ARCH = sun4-solaris-64int
191 PYTHON_VERSION= 2.7
192 PYTHON_PKGVERS= -27

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

209 FILEMODE=    644
210 DIRMODE=     755

212 # Declare that nothing should be built in parallel.
213 # Individual Makefiles can use the .PARALLEL target to declare otherwise.
214 .NO_PARALLEL:

216 # For stylistic checks
217 #
218 # Note that the X and C checks are not used at this time and may need
219 # modification when they are actually used.
220 #
221 CSTYLE=      $(ONBLD_TOOLS)/bin/cstyle
222 CSTYLE_TAIL=
223 HDRCHK=      $(ONBLD_TOOLS)/bin/hdrchk
224 HDRCHK_TAIL=
225 JSTYLE=      $(ONBLD_TOOLS)/bin/jstyle

227 DOT_H_CHECK= \
228     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL); \
229     $(HDRCHK) $< $(HDRCHK_TAIL)

231 DOT_X_CHECK= \
232     @$(ECHO) "checking $<"; $(RPCGEN) -C -h $< | $(CSTYLE) $(CSTYLE_TAIL); \
233     $(RPCGEN) -C -h $< | $(HDRCHK) $< $(HDRCHK_TAIL)

235 DOT_C_CHECK= \
236     @$(ECHO) "checking $<"; $(CSTYLE) $< $(CSTYLE_TAIL)

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

245 INS.file=    $(RM) $@; $(INS) -s -m $(FILEMODE) -f $(@D) $<
246 INS.dir=    $(INS) -s -d -m $(DIRMODE) $@
247 # installs and renames at once
248 #
249 INS.rename=  $(INS.file); $(MV) $(@D)/$(<F) $@

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

256 #
257 # Python bakes the mtime of the .py file into the compiled .pyc and
258 # rebuilds if the baked-in mtime != the mtime of the source file

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259 # (rather than only if it's less than), thus when installing python
260 # files we must make certain to not adjust the mtime of the source
261 # (.py) file.
262 #
263 INS.pyfile=      $(RM) $@; $(SED) -e "1s:^\#!@PYTHON@:\#!$(PYTHON):" < $< > $@; $
264
265 # MACH must be set in the shell environment per uname -p on the build host
266 # More specific architecture variables should be set in lower makefiles.
267 #
268 # MACH64 is derived from MACH, and BUILD64 is set to '#' for
269 # architectures on which we do not build 64-bit versions.
270 # (There are no such architectures at the moment.)
271 #
272 # Set BUILD64=# in the environment to disable 64-bit amd64
273 # builds on i386 machines.
274
275 MACH64_1=        $(MACH:sparc=sparcv9)
276 MACH64=          $(MACH64_1:i386=amd64)
277
278 MACH32_1=        $(MACH:sparc=sparcv7)
279 MACH32=          $(MACH32_1:i386=i86)
280
281 sparc_BUILD64=
282 i386_BUILD64=
283 BUILD64=        $($(_MACH)_BUILD64)
284
285 #
286 # C compiler mode. Future compilers may change the default on us,
287 # so force extended ANSI mode globally. Lower level makefiles can
288 # override this by setting CCMODE.
289 #
290 CCMODE=          -Xa
291 CCMODE64=        -Xa
292
293 #
294 # C compiler verbose mode. This is so we can enable it globally,
295 # but turn it off in the lower level makefiles of things we cannot
296 # (or aren't going to) fix.
297 #
298 CCVERBOSE=      -v
299
300 # set this to the secret flag "-Wc,-Qiselect-v9abiwarn=1" to get warnings
301 # from the compiler about places the -xarch=v9 may differ from -xarch=v9c.
302 V9ABIWARN=
303
304 # set this to the secret flag "-Wc,-Qiselect-regsym=0" to disable register
305 # symbols (used to detect conflicts between objects that use global registers)
306 # we disable this now for safety, and because genunix doesn't link with
307 # this feature (the v9 default) enabled.
308 #
309 # REGSYM is separate since the C++ driver syntax is different.
310 CCREGSYM=        -Wc,-Qiselect-regsym=0
311 CCCREGSYM=       -Qoption cg -Qiselect-regsym=0
312
313 # Prevent the removal of static symbols by the SPARC code generator (cg).
314 # The x86 code generator (ube) does not remove such symbols and as such
315 # using this workaround is not applicable for x86.
316 #
317 CCSTATICSYM=    -Wc,-Qassembler-ounrefsym=0
318 #
319 # generate 32-bit addresses in the v9 kernel. Saves memory.
320 CCABS32=        -Wc,-xcode=abs32
321 #
322 # generate v9 code which tolerates callers using the v7 ABI, for the sake of
323 # system calls.
324 CC32BITCALLERS= -_gcc=-massume-32bit-callers

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326 # GCC, especially, is increasingly beginning to auto-inline functions and
327 # sadly does so separately not under the general -fno-inline-functions
328 # Additionally, we wish to prevent optimisations which cause GCC to clone
329 # functions -- in particular, these may cause unhelpful symbols to be
330 # emitted instead of function names
331 CCNOAUTOINLINE= -_gcc=-fno-inline-small-functions \
332                -_gcc=-fno-inline-functions-called-once \
333                -_gcc=-fno-ipa-cp
334
335 # One optimization the compiler might perform is to turn this:
336 #     #pragma weak foo
337 #     extern int foo;
338 #     if (&foo)
339 #         foo = 5;
340 # into
341 #     foo = 5;
342 # Since we do some of this (foo might be referenced in common kernel code
343 # but provided only for some cpu modules or platforms), we disable this
344 # optimization.
345 #
346 sparc_CCUNBOUND = -Wd,-xsafe=unboundsym
347 i386_CCUNBOUND  =
348 CCUNBOUND       = $($(_MACH)_CCUNBOUND)
349
350 #
351 # compiler '-xarch' flag. This is here to centralize it and make it
352 # overridable for testing.
353 sparc_XARCH=     -m32
354 sparcv9_XARCH=  -m64
355 i386_XARCH=     -m32
356 amd64_XARCH=    -m64 -Ui386 -U__i386
357
358 # assembler '-xarch' flag. Different from compiler '-xarch' flag.
359 sparc_AS_XARCH=  -xarch=v8plus
360 sparcv9_AS_XARCH= -xarch=v9
361 i386_AS_XARCH=
362 amd64_AS_XARCH=  -xarch=amd64 -P -Ui386 -U__i386
363
364 #
365 # These flags define what we need to be 'standalone' i.e. -not- part
366 # of the rather more cosy userland environment. This basically means
367 # the kernel.
368 #
369 # XX64 future versions of gcc will make -mmodel=kernel imply -mno-red-zone
370 #
371 sparc_STAND_FLAGS= -_gcc=-ffreestanding
372 sparcv9_STAND_FLAGS= -_gcc=-ffreestanding
373 # Disabling MMX also disables 3DNow, disabling SSE also disables all later
374 # additions to SSE (SSE2, AVX ,etc.)
375 NO_SIMD=          -_gcc=-mno-mmx -_gcc=-mno-sse
376 i386_STAND_FLAGS= -_gcc=-ffreestanding $(NO_SIMD)
377 amd64_STAND_FLAGS= -xmodel=kernel $(NO_SIMD)
378
379 SAVEARGS=         -Wu,-save_args
380 amd64_STAND_FLAGS += $(SAVEARGS)
381
382 STAND_FLAGS_32 = $($(_MACH)_STAND_FLAGS)
383 STAND_FLAGS_64 = $($(_MACH64)_STAND_FLAGS)
384
385 #
386 # disable the incremental linker
387 ILDOFF=           -xildoff
388 #
389 XDEPEND=          -xdepend
390 XFFLAG=           -xF=%all

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391 XESS= -xs
392 XSTRCONST= -xstrconst

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

509 #
510 # The Sun Studio 11 compiler has changed the behaviour of integer
511 # wrap arounds and so a flag is needed to use the legacy behaviour
512 # (without this flag panics/hangs could be exposed within the source).
513 #
514 sparc_IROPTFLAG = -W2,-xwrap_int
515 sparcv9_IROPTFLAG = -W2,-xwrap_int
516 i386_IROPTFLAG =
517 amd64_IROPTFLAG =

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

522 sparc_XREGSFLAG = -xregs=no%appl

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

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

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

535 #
536 # These variables are intended ONLY for use by developers to safely pass extra
537 # flags to the compilers without unintentionally overriding Makefile-set
538 # flags. They should NEVER be set to any value in a Makefile.
539 #
540 # They come last in the associated FLAGS variable such that they can
541 # explicitly override things if necessary, there are gaps in this, but it's
542 # the best we can manage.
543 #
544 CUSERFLAGS        =
545 CUSERFLAGS64      = $(CUSERFLAGS)
546 CCUSERFLAGS       =
547 CCUSERFLAGS64     = $(CCUSERFLAGS)

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

554 CFLAGS=           $(COPTFLAG) $($ (MACH)_CFLAGS) $(SPACEFLAG) $(CCMODE) \
555                   $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG) \
556                   $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
557                   $(CUSERFLAGS)
558 CFLAGS64=         $(COPTFLAG64) $($ (MACH64)_CFLAGS) $(SPACEFLAG64) $(CCMODE64) \
559                   $(ILDOFF) $(CERRWARN) $(C99MODE) $(CCUNBOUND) $(IROPTFLAG64) \
560                   $(CGLOBALSTATIC) $(CCNOAUTOINLINE) $(CSOURCEDEBUGFLAGS) \
561                   $(CUSERFLAGS64)
562 #
563 # Flags that are used to build parts of the code that are subsequently
564 # run on the build machine (also known as the NATIVE_BUILD).
565 #
566 NATIVE_CFLAGS=    $(COPTFLAG) $($ (NATIVE_MACH)_CFLAGS) $(CCMODE) \
567                   $(ILDOFF) $(CERRWARN) $(C99MODE) $(NATIVE_MACH)_CCUNBOUND) \
568                   $(IROPTFLAG) $(CGLOBALSTATIC) $(CCNOAUTOINLINE) \
569                   $(CSOURCEDEBUGFLAGS) $(CUSERFLAGS)

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

583 #
584 # For source message catalogue
585 #
586 .SUFFIXES: $(SUFFIXES) .i .po
587 MSGROOT= $(ROOT)/catalog
588 MSGDOMAIN= $(MSGROOT)/$(TEXT_DOMAIN)

```

```

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

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

605 #
606 # This is overwritten by local Makefile when PROG is a list.
607 #
608 POFILE= $(PROG).po

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

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

632 CCOPTFLAG=       $($ (MACH)_CCOPTFLAG)
633 CCOPTFLAG64=     $($ (MACH64)_CCOPTFLAG)
634 CCFLAGS=         $(CCOPTFLAG) $($ (MACH)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
635                 $(CUSERFLAGS)
636 CCFLAGS64=       $(CCOPTFLAG64) $($ (MACH64)_CCFLAGS) $(CCSOURCEDEBUGFLAGS) \
637                 $(CUSERFLAGS64)

639 #
640 #
641 #
642 ELFWRAP_FLAGS =
643 ELFWRAP_FLAGS64 = -64

645 #
646 # Various mapfiles that are used throughout the build, and delivered to
647 # /usr/lib/ld.
648 #
649 MAPFILE.NED_i386 = $(SRC)/common/mapfiles/common/map.noexdata
650 MAPFILE.NED_sparc =
651 MAPFILE.NED = $(MAPFILE.NED_$(MACH))
652 MAPFILE.PGA = $(SRC)/common/mapfiles/common/map.pagealign
653 MAPFILE.NES = $(SRC)/common/mapfiles/common/map.noexstk
654 MAPFILE.FLT = $(SRC)/common/mapfiles/common/map.filter

```

```

655 MAPFILE.LEX = $(SRC)/common/mapfiles/common/map.lex.yy
657 #
658 # Generated mapfiles that are compiler specific, and used throughout the
659 # build. These mapfiles are not delivered in /usr/lib/ld.
660 #
661 MAPFILE.NGB_sparc= $(SRC)/common/mapfiles/gen/sparc_cc_map.noexeglobs
662 $(__GNUC64)MAPFILE.NGB_sparc= \
663 $(SRC)/common/mapfiles/gen/sparc_gcc_map.noexeglobs
664 MAPFILE.NGB_sparcv9= $(SRC)/common/mapfiles/gen/sparcv9_cc_map.noexeglobs
665 $(__GNUC64)MAPFILE.NGB_sparcv9= \
666 $(SRC)/common/mapfiles/gen/sparcv9_gcc_map.noexeglobs
667 MAPFILE.NGB_i386= $(SRC)/common/mapfiles/gen/i386_cc_map.noexeglobs
668 $(__GNUC64)MAPFILE.NGB_i386= \
669 $(SRC)/common/mapfiles/gen/i386_gcc_map.noexeglobs
670 MAPFILE.NGB_amd64= $(SRC)/common/mapfiles/gen/amd64_cc_map.noexeglobs
671 $(__GNUC64)MAPFILE.NGB_amd64= \
672 $(SRC)/common/mapfiles/gen/amd64_gcc_map.noexeglobs
673 MAPFILE.NGB = $(MAPFILE.NGB_$(MACH))

675 #
676 # A generic interface mapfile name, used by various dynamic objects to define
677 # the interfaces and interposers the object must export.
678 #
679 MAPFILE.INT = mapfile-intf

681 #
682 # LDLIBS32 and LDLIBS64 can be set in the environment to override the following
683 # assignments.
684 #
685 # These environment settings make sure that no libraries are searched outside
686 # of the local workspace proto area:
687 # LDLIBS32=-YP,$ROOT/lib:$ROOT/usr/lib
688 # LDLIBS64=-YP,$ROOT/lib/$MACH64:$ROOT/usr/lib/$MACH64
689 #
690 LDLIBS32 = $(ENVLDLIBS1) $(ENVLDLIBS2) $(ENVLDLIBS3)
691 LDLIBS32 += $(ADJUNCT_PROTO:%=-L%/usr/lib -L%/lib)
692 LDLIBS.cmd = $(LDLIBS32)
693 LDLIBS.lib = $(LDLIBS32)

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

700 #
701 # Define compilation macros.
702 #
703 COMPILE.c= $(CC) $(CFLAGS) $(CPPFLAGS) -c
704 COMPILE64.c= $(CC) $(CFLAGS64) $(CPPFLAGS) -c
705 COMPILE.cc= $(CCC) $(CCFLAGS) $(CPPFLAGS) -c
706 COMPILE64.cc= $(CCC) $(CCFLAGS64) $(CPPFLAGS) -c
707 COMPILE.s= $(AS) $(ASFLAGS) $(AS_CPPFLAGS)
708 COMPILE64.s= $(AS) $(ASFLAGS) $(AS_CPPFLAGS) $(AS_MACH64_ARCH) $(AS_CPPFLAGS)
709 COMPILE.d= $(DTRACE) -G -32
710 COMPILE64.d= $(DTRACE) -G -64
711 COMPILE.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))
712 COMPILE64.b= $(ELFWRAP) $(ELFWRAP_FLAGS$(CLASS))

714 CLASSPATH= .
715 COMPILE.java= $(JAVAC) $(JAVAFLAGS) -classpath $(CLASSPATH)

717 #
718 # Link time macros
719 #
720 CCNEEDED = -lC

```

```

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

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

733 #
734 # lint macros
735 #
736 # Note that the undefine of __PRAGMA_REDEFINE_EXTNAME can be removed once
737 # ON is built with a version of lint that has the fix for 4484186.
738 #
739 ALWAYS_LINT_DEFS = -errtags=yes -s
740 ALWAYS_LINT_DEFS += -erroff=E_PTRDIFF_OVERFLOW
741 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_NARROW_CONV
742 ALWAYS_LINT_DEFS += -U__PRAGMA_REDEFINE_EXTNAME
743 ALWAYS_LINT_DEFS += $(C99LMODE)
744 ALWAYS_LINT_DEFS += -errsecurity=$(SECLEVEL)
745 ALWAYS_LINT_DEFS += -erroff=E_SEC_CREAT_WITHOUT_EXCL
746 ALWAYS_LINT_DEFS += -erroff=E_SEC_FORBIDDEN_WARN_CREAT
747 # XX64 -- really only needed for amd64 lint
748 ALWAYS_LINT_DEFS += -erroff=E_ASSIGN_INT_TO_SMALL_INT
749 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_CONST_TO_SMALL_INT
750 ALWAYS_LINT_DEFS += -erroff=E_CAST_INT_TO_SMALL_INT
751 ALWAYS_LINT_DEFS += -erroff=E_CAST_TO_PTR_FROM_INT
752 ALWAYS_LINT_DEFS += -erroff=E_COMP_INT_WITH_LARGE_INT
753 ALWAYS_LINT_DEFS += -erroff=E_INTEGRAL_CONST_EXP_EXPECTED
754 ALWAYS_LINT_DEFS += -erroff=E_PASS_INT_TO_SMALL_INT
755 ALWAYS_LINT_DEFS += -erroff=E_PTR_CONV_LOSES_BITS

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

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

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

775 # Define native compilation macros
776 #

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

785 # Till SS12u1 formally becomes the NV CBE, LINT is hard
786 # coded to be picked up from the $SPRO_ROOT/sunstudio12.1/

```

```

787 # location. Impacted variables are sparc_LINT, sparcv9_LINT,
788 # i386_LINT, amd64_LINT.
789 # Reset them when SSI2ul is rolled out.
790 #

792 # Specify platform compiler versions for languages
793 # that we use (currently only c and c++).
794 #
795 sparc_CC=                $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
796 $(__GNUCC)sparc_CC=      $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
797 sparc_CCC=               $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
798 $(__GNUCC)sparc_CCC=    $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
799 sparc_CPP=               /usr/ccs/lib/cpp
800 sparc_AS=                 /usr/ccs/bin/as -xregsym=no
801 sparc_LD=                 /usr/ccs/bin/ld
802 sparc_LINT=              $(SPRO_ROOT)/sunstudio12.1/bin/lint

804 sparcv9_CC=              $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
805 $(__GNUCC64)sparcv9_CC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
806 sparcv9_CCC=             $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
807 $(__GNUCC64)sparcv9_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
808 sparcv9_CPP=             /usr/ccs/lib/cpp
809 sparcv9_AS=              /usr/ccs/bin/as -xregsym=no
810 sparcv9_LD=              /usr/ccs/bin/ld
811 sparcv9_LINT=            $(SPRO_ROOT)/sunstudio12.1/bin/lint

813 i386_CC=                 $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
814 $(__GNUCC64)i386_CC=    $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
815 i386_CCC=                $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
816 $(__GNUCC64)i386_CCC=  $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
817 i386_CPP=                /usr/ccs/lib/cpp
818 i386_AS=                 /usr/ccs/bin/as
819 $(__GNUCC64)i386_AS=    $(ONBLD_TOOLS)/bin/$(MACH)/aw
820 i386_LD=                 /usr/ccs/bin/ld
821 i386_LINT=               $(SPRO_ROOT)/sunstudio12.1/bin/lint

823 amd64_CC=                $(ONBLD_TOOLS)/bin/$(MACH)/cw -_cc
824 $(__GNUCC64)amd64_CC=  $(ONBLD_TOOLS)/bin/$(MACH)/cw -_gcc
825 amd64_CCC=               $(ONBLD_TOOLS)/bin/$(MACH)/cw -_CC
826 $(__GNUCC64)amd64_CCC= $(ONBLD_TOOLS)/bin/$(MACH)/cw -_g++
827 amd64_CPP=               /usr/ccs/lib/cpp
828 amd64_AS=                 $(ONBLD_TOOLS)/bin/$(MACH)/aw
829 amd64_LD=                /usr/ccs/bin/ld
830 amd64_LINT=              $(SPRO_ROOT)/sunstudio12.1/bin/lint

832 NATIVECC=                $($ (NATIVE_MACH)_CC)
833 NATIVECCC=               $($ (NATIVE_MACH)_CCC)
834 NATIVECPP=               $($ (NATIVE_MACH)_CPP)
835 NATIVEAS=                $($ (NATIVE_MACH)_AS)
836 NATVELD=                $($ (NATIVE_MACH)_LD)
837 NATVELINT=               $($ (NATIVE_MACH)_LINT)

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

849 # The real compilers used for this build
850 CW_CC_CMD=                 $(CC) -_compiler
851 CW_CCC_CMD=                $(CCC) -_compiler
852 REAL_CC=                   $(CW_CC_CMD:sh)

```

```

853 REAL_CCC=                 $(CW_CCC_CMD:sh)

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

858 BDIRECT=                  -Bdirect
859 BDYNAMIC=                 -Bdynamic
860 BLOCAL=                   -Blocal
861 BNODIRECT=                -Bnodirect
862 BREDUCE=                  -Breduce
863 BSTATIC=                  -Bstatic

865 ZDEFS=                    -zdefs
866 ZDIRECT=                  -zdirect
867 ZIGNORE=                  -zignore
868 ZINITFIRST=               -zinitfirst
869 ZINTERPOSE=               -zinterpose
870 ZLAZYLOAD=                -zlazyload
871 ZLOADFLTR=                -zloadfltr
872 ZMULDEFS=                 -zmuldefs
873 ZNODEFAULTLIB=           -znodefautlib
874 ZNODEFS=                  -znodelibs
875 ZNODELETE=                -znodelite
876 ZNODLOPEN=                -znodlopen
877 ZNODUMP=                  -znodump
878 ZNOLAZYLOAD=              -znolazyload
879 ZNOLDYNSYM=               -znolddynsym
880 ZNORELOC=                  -znoreloc
881 ZNOVERSION=               -znoverion
882 ZRECORD=                  -zrecord
883 ZREDLOCSYM=               -zredlocsym
884 ZTEXT=                    -ztext
885 ZVERBOSE=                 -zverbose

887 GSHARED=                  -G
888 CCMT=                      -mt

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

893 sparc_C_PICFLAGS =        -K pic
894 sparcv9_C_PICFLAGS =      -K pic
895 i386_C_PICFLAGS =         -K pic
896 amd64_C_PICFLAGS =        -K pic
897 C_PICFLAGS =              $($ (MACH)_C_PICFLAGS)
898 C_PICFLAGS64 =            $($ (MACH64)_C_PICFLAGS)

900 sparc_C_BIGPICFLAGS =     -K PIC
901 sparcv9_C_BIGPICFLAGS =   -K PIC
902 i386_C_BIGPICFLAGS =      -K PIC
903 amd64_C_BIGPICFLAGS =     -K PIC
904 C_BIGPICFLAGS =           $($ (MACH)_C_BIGPICFLAGS)
905 C_BIGPICFLAGS64 =         $($ (MACH64)_C_BIGPICFLAGS)

907 # CC requires there to be no space between '-K' and 'pic' or 'PIC'.
908 sparc_CC_PICFLAGS =        -Kpic
909 sparcv9_CC_PICFLAGS =      -Kpic
910 i386_CC_PICFLAGS =         -Kpic
911 amd64_CC_PICFLAGS =        -Kpic
912 CC_PICFLAGS =              $($ (MACH)_CC_PICFLAGS)
913 CC_PICFLAGS64 =            $($ (MACH64)_CC_PICFLAGS)

915 AS_PICFLAGS=               $(C_PICFLAGS)
916 AS_BIGPICFLAGS=            $(C_BIGPICFLAGS)

918 #

```

```

919 # Default label for CTF sections
920 #
921 CTFCVTFLAGS=          -i -L VERSION

923 #
924 # Override to pass module-specific flags to ctfmerge. Currently used only by
925 # krtld to turn on fuzzy matching, and source-level debugging to inhibit
926 # stripping.
927 #
928 CTFMRGFLAGS=

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

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

984 PROCESS_COMMENT=  @?${MCS} -d -a $(RELEASE_CM) -a $(DEV_CM)

```

```

985 $(RELEASE_BUILD)PROCESS_COMMENT=  @?${MCS} -d -a $(RELEASE_CM)

987 STRIP_STABS=      $(STRIP) -x $@
988 $(SRCDBGBLD)STRIP_STABS=          :

990 POST_PROCESS_O=
991 POST_PROCESS_A=
992 POST_PROCESS_SO=  $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
993                  $(ELFSIGN_OBJECT)
994 POST_PROCESS=     $(PROCESS_COMMENT) $@ ; $(STRIP_STABS) ; \
995                  $(ELFSIGN_OBJECT)

997 #
998 # chk4ubin is a tool that inspects a module for a symbol table
999 # ELF section size which can trigger an OBP bug on older platforms.
1000 # This problem affects only specific sun4u bootable modules.
1001 #
1002 CHK4UBIN=         $(ONBLD_TOOLS)/bin/$(MACH)/chk4ubin
1003 CHK4UBINFLAGS=
1004 CHK4UBINARY=      $(CHK4UBIN) $(CHK4UBINFLAGS) $@

1006 #
1007 # PKGARCHIVE specifies the default location where packages should be
1008 # placed if built.
1009 #
1010 $(RELEASE_BUILD)PKGARCHIVESUFFIX=  -nd
1011 PKGARCHIVE=$(SRC)/../../packages/$(MACH)/nightly$(PKGARCHIVESUFFIX)

1013 #
1014 # The repositories will be created with these publisher settings. To
1015 # update an image to the resulting repositories, this must match the
1016 # publisher name provided to "pkg set-publisher."
1017 #
1018 PKGPUBLISHER_REDIST=  on-nightly
1019 PKGPUBLISHER_NONREDIST= on-extra

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

```



```

1051 $(PROCESS_COMMENT) $%
1052 $(RM) $%
1053 .y:
1054 $(YACC.y) $<
1055 $(LINK.c) -o $@ y.tab.c $(LDLIBS)
1056 $(POST_PROCESS)
1057 $(RM) y.tab.c
1058 .y.o:
1059 $(YACC.y) $<
1060 $(COMPILE.c) -o $@ y.tab.c $(CTFCONVERT_HOOK)
1061 $(POST_PROCESS_O)
1062 $(RM) y.tab.c
1063 .l:
1064 $(RM) $*.c
1065 $(LEX.l) $< > $*.c
1066 $(LINK.c) -o $@ $*.c -ll $(LDLIBS)
1067 $(POST_PROCESS)
1068 $(RM) $*.c
1069 .l.o:
1070 $(RM) $*.c
1071 $(LEX.l) $< > $*.c
1072 $(COMPILE.c) -o $@ $*.c $(CTFCONVERT_HOOK)
1073 $(POST_PROCESS_O)
1074 $(RM) $*.c

1076 .bin.o:
1077 $(COMPILE.b) -o $@ $<
1078 $(POST_PROCESS_O)

1080 .java.class:
1081 $(COMPILE.java) $<

1083 # Bourne and Korn shell script message catalog build rules.
1084 # We extract all gettext strings with sed(1) (being careful to permit
1085 # multiple gettext strings on the same line), weed out the dups, and
1086 # build the catalogue with awk(1).

1088 .sh.po .ksh.po:
1089 $(SED) -n -e ":a" \
1090 -e "h" \
1091 -e "s/.*gettext *\([^\"\\\]*\).*//1/p" \
1092 -e "x" \
1093 -e "s/\(.*\)gettext *\([^\"\\\]*\)\(.*\)/\1/2/" \
1094 -e "t a" \
1095 $< | sort -u | $(AWK) '{ print "msgid\t" $$0 "\nmsgstr" }' > $@

1097 #
1098 # Python and Perl executable and message catalog build rules.
1099 #
1100 .SUFFIXES: .pl .pm .py .pyc

1102 .pl:
1103 $(RM) $@;
1104 $(SED) -e "s@TEXT_DOMAIN@"$(TEXT_DOMAIN)@" $< > $@;
1105 $(CHMOD) +x $@

1107 .py:
1108 $(RM) $@; $(SED) -e "1s:^\#@PYTHON@:#!(PYTHON):" < $< > $@; $(CHMOD)

1110 .py.pyc:
1111 $(RM) $@
1112 $(PYTHON) -mpy_compile $<
1113 @[ $(<)c = $@ ] || $(MV) $(<)c $@

1115 .py.po:
1116 $(GNUGETTEXT) $(GNUGETFLAGS) -d $(<F:%.py=%) $< ;

```

```

1118 .pl.po .pm.po:
1119 $(XGETTEXT) $(XGETFLAGS) -d $(<F) $< ;
1120 $(RM) $@ ;
1121 $(SED) "/^domain/d" < $(<F).po > $@ ;
1122 $(RM) $(<F).po

1124 #
1125 # When using xgettext, we want messages to go to the default domain,
1126 # rather than the specified one. This special version of the
1127 # COMPILE.cpp macro effectively prevents expansion of TEXT_DOMAIN,
1128 # causing xgettext to put all messages into the default domain.
1129 #
1130 CPPFORPO=$(COMPILE.cpp:"$(TEXT_DOMAIN)"=TEXT_DOMAIN)

1132 .c.i:
1133 $(CPPFORPO) $< > $@

1135 .h.i:
1136 $(CPPFORPO) $< > $@

1138 .y.i:
1139 $(YACC) -d $<
1140 $(CPPFORPO) y.tab.c > $@
1141 $(RM) y.tab.c

1143 .l.i:
1144 $(LEX) $<
1145 $(CPPFORPO) lex.yy.c > $@
1146 $(RM) lex.yy.c

1148 .c.po:
1149 $(CPPFORPO) $< > $<.i
1150 $(BUILD.po)

1152 .cc.po:
1153 $(CPPFORPO) $< > $<.i
1154 $(BUILD.po)

1156 .y.po:
1157 $(YACC) -d $<
1158 $(CPPFORPO) y.tab.c > $<.i
1159 $(BUILD.po)
1160 $(RM) y.tab.c

1162 .l.po:
1163 $(LEX) $<
1164 $(CPPFORPO) lex.yy.c > $<.i
1165 $(BUILD.po)
1166 $(RM) lex.yy.c

1168 #
1169 # Rules to perform stylistic checks
1170 #
1171 .SUFFIXES: .x .xml .check .xmlchk

1173 .h.check:
1174 $(DOT_H_CHECK)

1176 .x.check:
1177 $(DOT_X_CHECK)

1179 .xml.xmlchk:
1180 $(MANIFEST_CHECK)

1182 #

```

new/usr/src/Makefile.master

19

```
1183 # Include rules to render automated sccs get rules "safe".
1184 #
1185 include $(SRC)/Makefile.noget
```

new/usr/src/pkg/manifests/developer-build-onbld.mf

1

```
*****
12202 Thu Jan 25 19:54:34 2018
new/usr/src/pkg/manifests/developer-build-onbld.mf
8998 depcheck is useless and should be removed
8992 checkproto is useless and can be deleted
8991 pmodes is useless and can be deleted
8990 /opt/onbld/gk is useless
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2015, Richard Lowe
25 # Copyright 2012, Piotr Jasiukajtis
26 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 # Copyright (c) 2014, Joyent, Inc.
28 # Copyright 2016 Toomas Soome <tsoome@me.com>
29 #
30 #
31 set name=pkg.fmri value=pkg:/developer/build/onbld@$(PKGVERS)
32 set name=pkg.description value="tools used to build the OS-Net consolidation"
33 set name=pkg.summary value="OS-Net Build Tools"
34 set name=info.classification \
35     value="org.opensolaris.category.2008:Development/Distribution Tools"
36 #
37 #
38 # This package should not be incorporated. This allows the tools
39 # to be upgraded without upgrading the entire system.
40 #
41 set name=org.opensolaris.noincorp value=true
42 set name=variant.arch value=$(ARCH)
43 dir path=opt group=sys
44 dir path=opt/onbld
45 dir path=opt/onbld/bin
46 dir path=opt/onbld/bin/$(ARCH)
47 dir path=opt/onbld/env
48 dir path=opt/onbld/etc
49 dir path=opt/onbld/etc/exception_lists
50 dir path=opt/onbld/gk
51 dir path=opt/onbld/lib
52 dir path=opt/onbld/lib/$(ARCH)
53 dir path=opt/onbld/lib/$(ARCH)/64
54 dir path=opt/onbld/lib/perl
55 dir path=opt/onbld/lib/python$(PYTHON_VERSION)
56 dir path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld
57 dir path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks
58 dir path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm
```

new/usr/src/pkg/manifests/developer-build-onbld.mf

2

```
58 dir path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/hgext
59 dir path=opt/onbld/man
60 dir path=opt/onbld/man/man1onbld
61 dir path=opt/onbld/share
62 $(i386_ONLY)file path=opt/onbld/bin/$(ARCH)/aw mode=0555
63 $(i386_ONLY)file path=opt/onbld/bin/$(ARCH)/btxld mode=0555
64 $(sparc_ONLY)file path=opt/onbld/bin/$(ARCH)/chk4ubin mode=0555
65 file path=opt/onbld/bin/$(ARCH)/codereview mode=0555
66 file path=opt/onbld/bin/$(ARCH)/cscope-fast mode=0555
67 file path=opt/onbld/bin/$(ARCH)/ctfconvert mode=0555
68 file path=opt/onbld/bin/$(ARCH)/ctfdump mode=0555
69 file path=opt/onbld/bin/$(ARCH)/ctfmerge mode=0555
70 file path=opt/onbld/bin/$(ARCH)/ctfstabs mode=0555
71 file path=opt/onbld/bin/$(ARCH)/ctfstrip mode=0555
72 file path=opt/onbld/bin/$(ARCH)/cw mode=0555
73 $(i386_ONLY)file path=opt/onbld/bin/$(ARCH)/elfextract mode=0555
74 file path=opt/onbld/bin/$(ARCH)/findunref mode=0555
75 $(sparc_ONLY)file path=opt/onbld/bin/$(ARCH)/forth mode=0555
76 $(sparc_ONLY)file path=opt/onbld/bin/$(ARCH)/forth_preload.so.1 mode=0555
77 file path=opt/onbld/bin/$(ARCH)/install mode=0555
78 file path=opt/onbld/bin/$(ARCH)/lintdump mode=0555
79 file path=opt/onbld/bin/$(ARCH)/localedef mode=0555
80 file path=opt/onbld/bin/$(ARCH)/make mode=0555
81 $(i386_ONLY)file path=opt/onbld/bin/$(ARCH)/mbh_patch mode=0555
82 file path=opt/onbld/bin/$(ARCH)/ndrgen mode=0555
83 file path=opt/onbld/bin/$(ARCH)/ndrgen1 mode=0555
84 file path=opt/onbld/bin/$(ARCH)/pmodes mode=0555
85 file path=opt/onbld/bin/$(ARCH)/protocmp mode=0555
86 $(sparc_ONLY)file path=opt/onbld/bin/$(ARCH)/protolist mode=0555
87 file path=opt/onbld/bin/$(ARCH)/stabs mode=0555
88 $(sparc_ONLY)file path=opt/onbld/bin/$(ARCH)/tic mode=0555
89 $(sparc_ONLY)file path=opt/onbld/bin/$(ARCH)/tokenize mode=0555
90 $(sparc_ONLY)file path=opt/onbld/bin/$(ARCH)/tokenize.exe mode=0555
91 file path=opt/onbld/bin/$(ARCH)/zic mode=0555
92 file path=opt/onbld/bin/Install mode=0555
93 file path=opt/onbld/bin/bldenv mode=0555
94 file path=opt/onbld/bin/bringovercheck mode=0555
95 file path=opt/onbld/bin/build_cscope mode=0555
96 file path=opt/onbld/bin/cddlchk mode=0555
97 file path=opt/onbld/bin/check_rtime mode=0555
98 file path=opt/onbld/bin/checkpaths mode=0555
99 file path=opt/onbld/bin/checkproto mode=0555
100 file path=opt/onbld/bin/copyrightchk mode=0555
101 file path=opt/onbld/bin/cstyle mode=0555
102 file path=opt/onbld/bin/elfcmp mode=0555
103 file path=opt/onbld/bin/elfdump mode=0555
104 file path=opt/onbld/bin/find_elf mode=0555
105 file path=opt/onbld/bin/findcrypto mode=0555
106 file path=opt/onbld/bin/flg.flp mode=0555
107 file path=opt/onbld/bin/genoffsets mode=0555
108 file path=opt/onbld/bin/get_depend_info mode=0555
109 file path=opt/onbld/bin/git-pbchk mode=0555
110 file path=opt/onbld/bin/hdrchk mode=0555
111 file path=opt/onbld/bin/hg-active mode=0555
112 file path=opt/onbld/bin/hgsetup mode=0555
113 file path=opt/onbld/bin/interface_check mode=0555
114 file path=opt/onbld/bin/interface_cmp mode=0555
115 file path=opt/onbld/bin/jstyle mode=0555
116 file path=opt/onbld/bin/make_pkg_db mode=0555
117 file path=opt/onbld/bin/mapfilechk mode=0555
118 file path=opt/onbld/bin/nightly mode=0555
119 file path=opt/onbld/bin/onu mode=0555
120 file path=opt/onbld/bin/protocmp.terse mode=0555
121 file path=opt/onbld/bin/sccscheck mode=0555
122 file path=opt/onbld/bin/signit mode=0555
123 file path=opt/onbld/bin/signproto mode=0555
124 file path=opt/onbld/bin/validate_flg mode=0555
```

```

120 file path=opt/onbld/bin/validate_paths mode=0555
121 file path=opt/onbld/bin/validate_pkg mode=0555
122 file path=opt/onbld/bin/wdiff mode=0555
123 file path=opt/onbld/bin/webrev mode=0555
124 file path=opt/onbld/bin/which_scm mode=0555
125 file path=opt/onbld/bin/ws mode=0555
126 file path=opt/onbld/bin/wsdiff mode=0555
127 file path=opt/onbld/bin/xref mode=0555
128 file path=opt/onbld/bin/xref.mk
129 file path=opt/onbld/env/illumos
135 file path=opt/onbld/etc/SampleLinks
136 file path=opt/onbld/etc/SamplePkgLinks
130 file path=opt/onbld/etc/exception_lists/check_rtime
131 file path=opt/onbld/etc/exception_lists/interface_check
132 file path=opt/onbld/etc/exception_lists/interface_cmp
133 file path=opt/onbld/etc/hgstyle
134 file path=opt/onbld/etc/its.conf
135 file path=opt/onbld/etc/its.reg
143 file path=opt/onbld/gk/.cshrc
144 file path=opt/onbld/gk/.login
145 file path=opt/onbld/gk/gen_make.machines mode=0755
136 file path=opt/onbld/lib/$(ARCH)/64/libmakestate.so.1
137 file path=opt/onbld/lib/$(ARCH)/libdwarf.so.1
138 file path=opt/onbld/lib/$(ARCH)/libmakestate.so.1
139 file path=opt/onbld/lib/perl/onbld_elfmod.pm
140 file path=opt/onbld/lib/perl/onbld_elfmod_vertype.pm
141 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/CStyle.py \
142 mode=0444
143 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/CStyle.pyc \
144 mode=0444
145 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Cddl.py mode=0444
146 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Cddl.pyc \
147 mode=0444
148 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/CmtBlk.py \
149 mode=0444
150 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/CmtBlk.pyc \
151 mode=0444
152 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Comments.py \
153 mode=0444
154 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Comments.pyc \
155 mode=0444
156 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Copyright.py \
157 mode=0444
158 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Copyright.pyc \
159 mode=0444
160 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/DbLookups.py \
161 mode=0444
162 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/DbLookups.pyc \
163 mode=0444
164 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/HdrChk.py \
165 mode=0444
166 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/HdrChk.pyc \
167 mode=0444
168 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/JStyle.py \
169 mode=0444
170 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/JStyle.pyc \
171 mode=0444
172 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Keywords.py \
173 mode=0444
174 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Keywords.pyc \
175 mode=0444
176 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/ManLint.py \
177 mode=0444
178 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/ManLint.pyc \
179 mode=0444
180 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Mapfile.py \

```

```

181 mode=0444
182 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/Mapfile.pyc \
183 mode=0444
184 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/ProcessCheck.py \
185 mode=0444
186 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/ProcessCheck.pyc \
187 mode=0444
188 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/SpellCheck.py \
189 mode=0444
190 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/SpellCheck.pyc \
191 mode=0444
192 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/__init__.py \
193 mode=0444
194 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Checks/__init__.pyc \
195 mode=0444
196 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/Backup.py mode=0444
197 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/Backup.pyc mode=0444
198 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/Ignore.py mode=0444
199 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/Ignore.pyc mode=0444
200 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/Version.py mode=0444
201 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/Version.pyc \
202 mode=0444
203 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/WorkSpace.py \
204 mode=0444
205 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/WorkSpace.pyc \
206 mode=0444
207 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/__init__.py \
208 mode=0444
209 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/Scm/__init__.pyc \
210 mode=0444
211 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/__init__.py mode=0444
212 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/__init__.pyc mode=0444
213 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/hgext/__init__.py \
214 mode=0444
215 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/hgext/__init__.pyc \
216 mode=0444
217 file path=opt/onbld/lib/python$(PYTHON_VERSION)/onbld/hgext/cdm.py mode=0444
218 file path=opt/onbld/man/manlonbld/Install.lonbld
219 file path=opt/onbld/man/manlonbld/bldenv.lonbld
220 file path=opt/onbld/man/manlonbld/bringovercheck.lonbld
221 file path=opt/onbld/man/manlonbld/btxld.lonbld
222 file path=opt/onbld/man/manlonbld/cddlchk.lonbld
223 file path=opt/onbld/man/manlonbld/check_rtime.lonbld
224 file path=opt/onbld/man/manlonbld/checkpaths.lonbld
225 file path=opt/onbld/man/manlonbld/codereview.lonbld
226 file path=opt/onbld/man/manlonbld/cstyle.lonbld
227 file path=opt/onbld/man/manlonbld/cw.lonbld
228 file path=opt/onbld/man/manlonbld/find_elf.lonbld
229 file path=opt/onbld/man/manlonbld/findunref.lonbld
230 file path=opt/onbld/man/manlonbld/flg.flp.lonbld
241 file path=opt/onbld/man/manlonbld/get_depend_info.lonbld
231 file path=opt/onbld/man/manlonbld/git-pbchk.lonbld
232 file path=opt/onbld/man/manlonbld/hdrchk.lonbld
233 file path=opt/onbld/man/manlonbld/hgsetup.lonbld
234 file path=opt/onbld/man/manlonbld/interface_check.lonbld
235 file path=opt/onbld/man/manlonbld/interface_cmp.lonbld
236 file path=opt/onbld/man/manlonbld/jstyle.lonbld
237 file path=opt/onbld/man/manlonbld/lintdump.lonbld
249 file path=opt/onbld/man/manlonbld/make_pkg_db.lonbld
238 file path=opt/onbld/man/manlonbld/mapfilechk.lonbld
239 file path=opt/onbld/man/manlonbld/ndrgen.lonbld
240 file path=opt/onbld/man/manlonbld/nightly.lonbld
241 file path=opt/onbld/man/manlonbld/onu.lonbld
242 file path=opt/onbld/man/manlonbld/scscscheck.lonbld
243 file path=opt/onbld/man/manlonbld/signit.lonbld
244 file path=opt/onbld/man/manlonbld/signproto.lonbld

```

```
245 file path=opt/onbld/man/manlonbld/webrev.lonbld
246 file path=opt/onbld/man/manlonbld/which_scm.lonbld
247 file path=opt/onbld/man/manlonbld/ws.lonbld
248 file path=opt/onbld/man/manlonbld/wsdiff.lonbld
249 file path=opt/onbld/man/manlonbld/xref.lonbld
250 file path=opt/onbld/share/make.rules mode=0444
251 hardlink path=opt/onbld/bin/${ARCH}/install.bin target=./install
252 legacy pkg=SUNWonbld desc="tools used to build the OS-Net consolidation" \
253     name="OS-Net Build Tools" version=11.11.REV=2009.10.22
254 license cr_Sun license=cr_Sun
255 license lic_CDDL license=lic_CDDL
256 license usr/src/tools/ctf/dwarf/THIRDPARTYLICENSE \
257     license=usr/src/tools/ctf/dwarf/THIRDPARTYLICENSE
258 license usr/src/tools/onbld/THIRDPARTYLICENSE \
259     license=usr/src/tools/onbld/THIRDPARTYLICENSE
260 link path=opt/onbld/bin/${ARCH}/dmake target=make
261 link path=opt/onbld/bin/git-nits target=git-pbchk
262 link path=opt/onbld/lib/python target=python${PYTHON_VERSION}
263 link path=opt/onbld/man/manlonbld/git-nits.lonbld target=git-pbchk.lonbld
264 # webrev(1) requires ps2pdf
265 depend fmri=print/filter/ghostscript type=require
266 # nightly(1) uses wget
267 depend fmri=web/wget type=require
```

```

*****
3257 Thu Jan 25 19:54:35 2018
new/usr/src/tools/Makefile
8998 depcheck is useless and should be removed
8991 pmodes is useless and can be deleted
8990 /opt/onbld/gk is useless
*****
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) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
25 # Copyright 2016 Toomas Soome <tsoome@me.com>
26 # Copyright (c) 2016, Chris Fraire <cfraire@me.com>.
27 #

29 include ../Makefile.master

31 # Bootstrap problem --
32 # 'cw' must be built before anything else can be built.

34 BOOT_SUBDIRS= \
35     cw

37 COMMON_SUBDIRS= \
38     codereview \
39     codesign \
40     cscope-fast \
41     ctf \
42     depcheck \
42     env \
43     findunref \
45     gk \
44     install.bin \
45     lintdump \
46     make \
47     ndrgen \
48     onbld \
51     pmodes \
49     protocmp \
50     protolist \
51     scripts

53 #
54 # special versions of commands for use only in build
55 #
56 UNSHIPPED_SUBDIRS = \

```

```

57     localedef \
58     mandoc \
59     tic \
60     vtfontcvt \
61     zic

63 sparc_SUBDIRS= \
64     chk4ubin \
65     stabs \
66     tokenize

68 i386_SUBDIRS= \
69     aw \
70     elfextract \
71     mbh_patch \
72     btxbd

74 LINTSUBDIRS= \
75     codereview \
76     ctf \
77     cw \
78     findunref \
79     lintdump \
80     ndrgen \
81     protocmp \
82     protolist

84 SUBDIRS= \
85     ${$(MACH)_SUBDIRS} \
86     ${COMMON_SUBDIRS} \
87     ${UNSHIPPED_SUBDIRS}

89 include Makefile.tools

91 ROOTDIRS= \
92     $(ROOTOPT) \
93     $(ROOTONBLD) \
94     $(ROOTONBLD)/bin \
95     $(ROOTONBLD)/bin/$(MACH) \
96     $(ROOTONBLD)/lib \
97     $(ROOTONBLD)/lib/$(MACH) \
98     $(ROOTONBLD)/lib/$(MACH)/64 \
99     $(ROOTONBLD)/lib/perl \
100    $(ROOTONBLD)/lib/python$(PYTHON_VERSION) \
101    $(ROOTONBLD)/lib/python$(PYTHON_VERSION)/onbld \
102    $(ROOTONBLD)/lib/python$(PYTHON_VERSION)/onbld/Checks \
103    $(ROOTONBLD)/lib/python$(PYTHON_VERSION)/onbld/hgext \
104    $(ROOTONBLD)/lib/python$(PYTHON_VERSION)/onbld/Scm \
105    $(ROOTONBLD)/env \
106    $(ROOTONBLD)/etc \
107    $(ROOTONBLD)/etc/exception_lists \
108    $(ROOTONBLD)/share \
112   $(ROOTONBLD)/gk \
109    $(ROOTONBLD)/man \
110    $(ROOTONBLD)/man/man1onbld

112 all := TARGET= install
113 install := TARGET= install
114 clean := TARGET= clean
115 clobber := TARGET= clobber
116 lint := TARGET= lint
117 _msg := TARGET= _msg

119 .KEEP_STATE:

121 #

```

new/usr/src/tools/Makefile

3

```
122 # Only create directories in the tools proto area when doing an actual
123 # build, not a clean or clobber.
124 #
125 DOROOTDIRS= $(ROOTDIRS)
126 clobber:= DOROOTDIRS=
127 clean:= DOROOTDIRS=

129 DOROOTONBLDLIBPY= $(ROOTONBLDLIBPY)
130 clobber:= DOROOTONBLDLIBPY=
131 clean:= DOROOTONBLDLIBPY=

133 all install: $(SUBDIRS)

135 clean: $(SUBDIRS)

137 clobber: $(SUBDIRS)
138     $(RM) -rf $(TOOLS_PROTO)

140 lint: $(LINTSUBDIRS)

142 _msg: $(MSGSUBDIRS)

144 .PARALLEL: $(SUBDIRS) $(CLOSED_SUBDIRS)

146 $(SUBDIRS) $(CLOSED_SUBDIRS): $(BOOT_SUBDIRS)

148 $(BOOT_SUBDIRS) $(SUBDIRS): $$$(DOROOTDIRS) $$$(DOROOTONBLDLIBPY) FRC
149     @cd $@; pwd; $(MAKE) $(TARGET)

151 $(ROOTDIRS):
152     $(INS.dir)

154 $(ROOTONBLDLIBPY): $(ROOTDIRS)
155     $(RM) -r $@; $(SYMLINK) python$(PYTHON_VERSION) $@

157 make: ctf

159 FRC:
```

```

*****
2981 Thu Jan 25 19:54:36 2018
new/usr/src/tools/Makefile.tools
8990 /opt/onbld/gk is useless
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 # Definitions common to tool source.
25 #
26 include $(SRC)/Makefile.master

28 FILEMODE=      0555

30 TOOLS=          $(SRC)/tools
31 TOOLS_PROTO=    $(TOOLS)/proto/root_$(MACH)-nd
32 ROOTOPT=        $(TOOLS_PROTO)/opt
33 ROOTONBLD=      $(ROOTOPT)/onbld
34 ROOTONBLDBIN=   $(ROOTONBLD)/bin
35 ROOTONBLDBINMACH= $(ROOTONBLD)/bin/$(MACH)
36 ROOTONBLDETC=   $(ROOTONBLD)/etc
37 ROOTONBLDLIB=   $(ROOTONBLD)/lib
38 ROOTONBLDLIBMACH= $(ROOTONBLD)/lib/$(MACH)
39 ROOTONBLDLIBMACH64= $(ROOTONBLD)/lib/$(MACH)/64
40 ROOTONBLDLIBPERL= $(ROOTONBLD)/lib/perl
41 ROOTONBLDLIBPY= $(ROOTONBLD)/lib/python
42 ROOTONBLDENV=   $(ROOTONBLD)/env
43 ROOTONBLDGK=    $(ROOTONBLD)/gk
44 ROOTONBLDMAN=   $(ROOTONBLD)/man
45 ROOTONBLDMANIONBLD= $(ROOTONBLD)/man/man1onbld
46 ROOTONBLDETCABI= $(ROOTONBLD)/etc/abi
47 ROOTONBLDETCEXCEPT= $(ROOTONBLD)/etc/exception_lists
48 ROOTONBLDSHARE= $(ROOTONBLD)/share

49 CPPFLAGS=      -D_TS_ERRNO
50 ELFSIGN_O=      $(TRUE)
51 LDLIBS=
52 LDFLAGS=        $(MAPFILE.NES:%=-M%) $(MAPFILE.NED:%=-M%) \
53                 $(MAPFILE.PGA:%=-M%)

55 ROOTONBLDPROG=  $(PROG:%=$(ROOTONBLDBIN)/%)
56 ROOTONBLDMACHPROG= $(PROG:%=$(ROOTONBLDBINMACH)/%)
57 ROOTONBLDSHFILES= $(SHFILES:%=$(ROOTONBLDBIN)/%)
58 ROOTONBLDMAKFILES= $(MAKEFILES:%=$(ROOTONBLDBIN)/%)
59 ROOTONBLDMACHSHFILES= $(SHFILES:%=$(ROOTONBLDBINMACH)/%)
60 ROOTONBLDMACHBINARIES= $(BINARIES:%=$(ROOTONBLDBINMACH)/%)

```

```

61 ROOTONBLDETCFILES= $(ETCFILES:%=$(ROOTONBLDETC)/%)
62 ROOTONBLDENVFILES= $(ENVFILES:%=$(ROOTONBLDENV)/%)
64 ROOTONBLDGKFILES= $(GKFILES:%=$(ROOTONBLDGK)/%)
65 ROOTONBLDGKSHFILES= $(SHFILES:%=$(ROOTONBLDGK)/%)
63 ROOTONBLDPERLFILES= $(PERLFILES:%=$(ROOTONBLDBIN)/%)
64 ROOTONBLDPERLMODULES= $(PERLMODULES:%=$(ROOTONBLDLIBPERL)/%)
65 ROOTONBLDPYFILES= $(PYFILES:%=$(ROOTONBLDBIN)/%)
66 ROOTONBLDMANIONBLDFILES= $(MANIONBLDFILES:%=$(ROOTONBLDMANIONBLD)/%)
67 ROOTONBLDABIAUDITFILES= $(ABI_AUDITFILES:%=$(ROOTONBLDETCABI)/%)
68 ROOTONBLDEXCEPTFILES= $(EXCEPTFILES:%=$(ROOTONBLDETCEXCEPT)/%)

70 # Break a chicken-and-egg dependency cycle for the tools build
71 SCCSCHECK=@echo would sccscheck

73 $(ROOTONBLDETCABI)/%: %
74     $(INS.file)

76 $(ROOTONBLDETCEXCEPT)/%: $(CODEMGR_WS)/exception_lists/%
77     $(INS.file)

79 $(ROOTONBLDBIN)/%: %
80     $(INS.file)

82 $(ROOTONBLDBINMACH)/%: %
83     $(INS.file)

85 $(ROOTONBLDETC)/%: %
86     $(INS.file)

88 $(ROOTONBLDLIBPERL)/%: %
89     $(INS.file)

91 $(ROOTONBLDMANIONBLD)/%: %
92     $(INS.file)

94 $(ROOTONBLDENV)/%: %
98     $(INS.file)

100 $(ROOTONBLDGK)/.%: %
101     $(INS.rename)

103 $(ROOTONBLDGK)/%: %
95     $(INS.file)

```



```

*****
10456 Thu Jan 25 19:54:37 2018
new/usr/src/tools/README.tools
8998 depcheck is useless and should be removed
8992 checkproto is useless and can be deleted
8991 pmodes is useless and can be deleted
8990 /opt/onbld/gk is useless
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.

25 This directory contains the tools used to do a full build of the
26 OS/Net workspace. They usually live in the /opt/onbld directory on build
27 machines. From here, 'make install' will build and install the tools
28 in $ROOT/opt/onbld.
29 in $ROOT/opt/onbld. If you like, 'make pkg' will build the SUNWonbld
30 package in $(PKGARCHIVE). Installing that package will populate the
31 /opt/onbld directory, and create a root account for building called 'gk',
32 which uses csh and has a home directory of /opt/onbld/gk. You can
33 use this account to do full builds with 'nightly'. You don't have to,
34 but the 'gk' account has the path setup properly, has a .make.machines
34 file for dmake, and has a .login that sets up for dmake.

30 Layout of /opt/onbld
31 -----

33 /opt/onbld/etc/abi
34 contains Solaris ABI database (ABI_*.db) and exceptions
35 for ABI Auditing tool (interface_check, interface_cmp).

43 /opt/onbld/gk
44 gk account's home directory.

37 /opt/onbld/bin
38 basic bin directory - contains scripts.

40 /opt/onbld/bin/${MACH}
41 architecture-specific bin directory for binaries.

43 /opt/onbld/env
44 build environment files.

46 /opt/onbld/lib
47 libraries used by the build tools.

```

```

49 /opt/onbld/lib/python<version>/
50 python modules used by the build tools.

52 /opt/onbld/lib/python<version>/onbld/hgext
53 Mercurial extensions.

55 /opt/onbld/lib/python/
56 symlink to the modules directory of the currently preferred
57 python version. This exists to retain compatibility both for
58 tools expecting only one supported version of python, and for
59 user .hgrc files that expect to find cdm.py in
60 /opt/onbld/lib/python/onbld/hgext.

62 /opt/onbld/man
63 rudimentary man pages for some of the tools.

66 Tool Summary
67 -----

69 bldenv
70 companion to 'nightly.' Takes the same environment file you
71 used with 'nightly,' and starts a shell with the environment
72 set up the same way as 'nightly' set it up. This is useful
73 if you're trying to quickly rebuild portions of a workspace
74 built by 'nightly'. 'ws' should not be used for this since it
75 sets the environment up differently and may cause everything
76 to rebuild (because of different -I or -L paths).

78 build_cscope
79 builds cscope databases in the uts, the platform subdirectories
80 of uts, and in usr/src. Uses cscope-fast.

82 cdm
83 A Mercurial extension providing various commands useful for ON
84 development

86 check_rtime
87 checks ELF attributes used by ELF dynamic objects in the proto area.
88 Used by 'nightly's -r option, to check a number of ELF runtime
89 attributes for consistency with common build rules. nightly uses
90 the -o option to simplify the output for diffing with previous
91 build results. It also uses the -i option to obtain NEEDED and RUNPATH
92 entries, which help detect changes in software dependencies and makes
93 sure objects don't have any strange runpaths like /opt/SUNWspro/lib.

104 checkproto
105 Runs protocmp and protolist on a workspace (or uses the environment
106 variable CODEMGR_WS to determine the workspace). Checks the proto area
107 against the packages.

95 codereview
96 Given two filenames, creates a postscript file with the file
97 differences highlighted.

99 codesign
100 Tools for signing cryptographic modules using the official
101 Sun release keys stored on a remote signing server. This
102 directory contains signit, a client program for signing
103 files with the signing server; signproto, a shell script
104 that finds crypto modules in $ROOT and signs them using
105 signit; and codesign_server.pl, the code that runs on the
106 server. The codesign_server code is not used on an ON
107 build machine but is kept here for source control purposes.

109 copyrightchk

```

new/usr/src/tools/README.tools

3

```
110 Checks that files have appropriate SMI copyright notices.
111 Primarily used by wx

113 cscope-fast
114 The fast version of cscope that we use internally. Seems to work,
115 but may need more testing before it's placed in the gate. The source
116 just really needs to be here.
117
118 cstyle
119 checks C source for compliance with OS/Net guidelines.

121 ctftconvert
122 Convert symbolic debugging information in an object file to the Compact
123 ANSI-C Type Format (CTF).

125 ctfdump
126 Decode and display CTF data stored in a raw file or in an ELF file.

128 ctferge
129 Merge the CTF data from one or more object files.

145 depcheck
146 A tool to try an assess the dependencies of executables. This tool
147 is not a definitive dependency check, but it does use "strings" and
148 "ldd" to gather as much information as it can. The dependency check
149 tool can handle filenames and pkgnames. Before using the dependency
150 checker you must build a database which reflects the properties and
151 files in your system.

131 elfcmp
132 Compares two ELF modules (e.g. .o files, executables) section by
133 section. Useful for determining whether "trivial" changes -
134 cstyle, lint, etc - actually changed the code. The -S option
135 is used to test whether two binaries are the same except for
136 the elfsign signature.

138 find_elf
139 Search a directory tree for ELF objects, and produce one line of
140 output per object. Used by check_rtime and interface_check to locate
141 the objects to examine.

143 findunref
144 Finds all files in a source tree that have access times older than a
145 certain time and are not in a specified list of exceptions. Since
146 'nightly' timestamps the start of the build, and findunref uses its
147 timestamp (by default), this can be used to find all files that were
148 unreferenced during a nightly build). Since some files are only used
149 during a SPARC or Intel build, 'findunref' needs to be run on
150 workspaces from both architectures and the results need to be merged.
151 For instance, if $INTELSRC and $SPARC SRC are set to the usr/src
152 directories of your Intel and SPARC nightly workspaces, then you
153 can merge the results like so:

155 $ findunref $INTELSRC $INTELSRC/tools/findunref/exception_list | \
156 sort > ~/unref-i386.out
157 $ findunref $SPARC SRC $SPARC SRC/tools/findunref/exception_list | \
158 sort > ~/unref-sparc.out
159 $ comm -12 ~/unref-i386.out ~/unref-sparc.out > ~/unref.out

161 hdrchk
162 checks headers for compliance with OS/Net standards (form, includes,
163 C++ guards).

165 hgsetup
166 creates a basic Mercurial configuration for the user.
```

new/usr/src/tools/README.tools

4

```
168 hg-active
169 helper used by webrev to generate file lists for Mercurial
170 workspaces.

172 install.bin
173 binary version of /usr/sbin/install. Used to be vastly faster
174 (since /usr/sbin/install is a shell script), but may only be a bit
175 faster now. One speedup includes avoiding the name service for the
176 well-known, never-changing password entries like 'root' and 'sys.'

178 interface_check
179 detects and reports invalid versioning in ELF objects.
180 Optionally generates an interface description file for
181 the workspace.

183 interface_cmp
184 Compares two interface description files, as produced by
185 interface_check, and flags invalid deviations in ELF object
186 versioning between them. interface_cmp can be used between Solaris
187 gates to ensure that older releases remain compatible with the
188 development gate. It can also be used to validate new changes to
189 the development gate before they are integrated.

191 lintdump
192 dumps the contents of one or more lint libraries; see lintdump(1)

194 ndrgen
195 Network Data Language (NDL) RPC protocol compiler to support DCE
196 RPC/MSRPC and SMB/CIFS. ndrgen takes an input protocol definition
197 file (say, proto.ndl) and generates an output C source file
198 (proto.ndr.c) containing the Network Data Representation (NDR)
199 marshalling routines to implement the RPC protocol.

201 nightly
202 nightly build script. Takes an environment (or 'env') file describing
203 such things as the workspace, the parent, and what to build. See
204 env/developer and env/gatekeeper for sample, hopefully well-commented
205 env files.

229 pmodes
230 enforces proper file ownership and permissions in pkgmap and package
231 prototype* files. converts files if necessary

207 protocmp
208 compares proto lists and the package definitions. Used by nightly
209 to determine if the proto area matches the packages, and to detect
210 differences between a childs proto area and a parents.

212 protocmp terse
213 transforms the output of protocmp into something a bit more friendly

215 protolist
216 create a list of what's in the proto area, to feed to protocmp.

219 ws
220 creates a shell with the environment set up to build in the given
221 workspace. Used mostly for non-full-build workspaces, so it sets up
222 to pull headers and libraries from the proto area of the parent if
223 they aren't in the childs proto area.

225 tokenize
226 Used to build the sun4u boot block.

228 webrev
229 Generates a set of HTML pages that show side-by-side diffs of
```

230 changes in your workspace, for easy communication of code
231 review materials. Can automagically find edited files or use a
232 manually-generated list; knows how to use wx's active file for
233 lists of checked-out files and proposed SCCS comments.

235 which_scm
236 Reports the current Source Code Management (SCM) system in use
237 and the top-level directory of the workspace.

239 wsdiff
240 Detect object differences between two ON proto areas. Used by
241 nightly(1) to determine what changed between two builds. Handy
242 for identifying the set of built objects impacted by a given
243 source change. This information is needed for patch construction.

246 How to do a full build
247 -----

249 1. Find an environment file that might do what you want to do. If you're just
250 a developer wanting to do a full build in a child of the gate, copy the
251 'developer' environment file to a new name (private to you and/or the
252 work being done in this workspace, to avoid collisions with others). Then
253 edit the file and tailor it to your workspace. Remember that this file
254 is a shell script, so it can do more than set environment variables.

256 2. Run 'nightly' and give it your environment file as an
282 2. Login as 'gk' (or root, but your PATH and .make.machines for dmake will
283 not be right). Run 'nightly' and give it your environment file as an
257 option. 'nightly' will first look for your environment file in
258 /opt/onbld/env, and if it's not there then it will look for it as an
259 absolute or relative path. Some people put their environment files in
260 their workspace to keep them close.

262 3. When 'nightly' is complete, it will send a summary of what happened to
263 \$MAILTO. Usually, the less info in the mail the better. If you have failures,
264 you can go look at the full log of what happened, generally in
265 \$CODEMGR_WS/log/log.<date>/nightly.log (the mail_msg it sent and the proto
266 list are there too). You can also find the individual build logs, like
267 'make clobber' and 'make install' output in \$SRC, under names like
268 clobber- $\{MACH\}$.out and install- $\{MACH\}$.out (for a DEBUG build). These
269 will be smaller than nightly.log, and maybe more searchable.

271 Files you have to update to add a tool
272 -----

274 1. Add the tool in its appropriate place.
275 2. Update the Makefile as required.
276 3. Update usr/src/pkg/manifests/developer-build-onbld.mf
277 4. Update usr/src/tools/README.tools (this file).
278 5. Repeat 1-4 for any man pages.

```

*****
3957 Thu Jan 25 19:54:44 2018
new/usr/src/tools/scripts/Makefile
8992 checkproto is useless and can be deleted
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
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8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 # Copyright 2010, Richard Lowe

26 SHELL=/usr/bin/ksh93

28 SHFILES= \
29     Install \
30     bldenv \
31     build_cscope \
32     bringovercheck \
33     checkpaths \
34     checkproto \
35     cstyle \
36     elfcmp \
37     flg.flp \
38     genoffsets \
39     hgsetup \
40     nightly \
41     onu \
42     protocmp.terse \
43     sccscheck \
44     webrev \
45     which_scm \
46     ws \
47     xref

48 PERLFILES= \
49     check_rtime \
50     find_elf \
51     interface_check \
52     interface_cmp \
53     jstyle \
54     validate_flg \
55     validate_paths \
56     wdiff

58 PERLMODULES= \
59     onbld_elfmod.pm \
60     onbld_elfmod_vertype.pm

```

```

63 PYFILES= \
64     cddlchk \
65     copyrightchk \
66     git-pbchk \
67     hdrchk \
68     hg-active \
69     mapfilechk \
70     validate_pkg \
71     wsdiff

73 SCRIPTLINKS= \
74     git-nits

76 MAN1ONBLDFILES= \
77     Install.lonbld \
78     bldenv.lonbld \
79     bringovercheck.lonbld \
80     cddlchk.lonbld \
81     checkpaths.lonbld \
82     check_rtime.lonbld \
83     cstyle.lonbld \
84     find_elf.lonbld \
85     flg.flp.lonbld \
86     git-pbchk.lonbld \
87     hdrchk.lonbld \
88     interface_check.lonbld \
89     interface_cmp.lonbld \
90     hgsetup.lonbld \
91     jstyle.lonbld \
92     mapfilechk.lonbld \
93     nightly.lonbld \
94     onu.lonbld \
95     sccscheck.lonbld \
96     webrev.lonbld \
97     which_scm.lonbld \
98     ws.lonbld \
99     wsdiff.lonbld \
100     xref.lonbld

102 MAN1ONBLDDLINKS= \
103     git-nits.lonbld

105 MAKEFILES= \
106     xref.mk

108 ETCFILES= \
109     hgstyle \
110     its.conf \
111     its.reg

113 EXCEPTFILES= \
114     check_rtime \
115     interface_check \
116     interface_cmp

118 CLEANFILES = $(SHFILES) $(PERLFILES) $(PYFILES) bldenv.lonbld onu.sh

120 onu.sh: onu.sh.in
121     $(SED) -e "s:@PYTHON_VERSION@:${PYTHON_VERSION}:g" < onu.sh.in > @$@

123 include ../Makefile.tools

125 ROOTONBLDSRIPTLINKS = $(SCRIPTLINKS:%=$(ROOTONBLDBIN)/%)
126 ROOTONBLDMAN1ONBLDDLINKS = $(MAN1ONBLDDLINKS:%=$(ROOTONBLDMAN1ONBLD)/%)

```

```
128 $(ROOTONBLDETCFILES)           := FILEMODE= 644
129 $(ROOTONBLDEXCEPTFILES)      := FILEMODE= 644
130 $(ROOTONBLDPERLMODULES)        := FILEMODE= 644
131 $(ROOTONBLDMAKEFILES)          := FILEMODE= 644
132 $(ROOTONBLDMANIONBLDFILES)     := FILEMODE= 644

134 .KEEP_STATE:

136 all:    $(SHFILES) $(PERLFILES) $(PERLMODULES) $(PYFILES) \
137          $(MANIONBLDFILES) $(MAKEFILES)

139 $(ROOTONBLDBIN)/git-nits:
140     $(RM) $(ROOTONBLDBIN)/git-nits
141     $(SYMLINK) git-pbchk $(ROOTONBLDBIN)/git-nits

143 $(ROOTONBLDMANIONBLD)/git-nits.lonbld:
144     $(RM) $(ROOTONBLDMANIONBLD)/git-nits.lonbld
145     $(SYMLINK) git-pbchk.lonbld $(ROOTONBLDMANIONBLD)/git-nits.lonbld

147 install: all .WAIT $(ROOTONBLDSSHFILES) $(ROOTONBLDPERLFILES) \
148            $(ROOTONBLDPERLMODULES) $(ROOTONBLDPYFILES) \
149            $(ROOTONBLDSCRIPTLINKS) $(ROOTONBLDMANIONBLDFILES) \
150            $(ROOTONBLDMAKEFILES) $(ROOTONBLDETCFILES) \
151            $(ROOTONBLDEXCEPTFILES) $(ROOTONBLDMANIONBLDLINKS)

153 clean:
154     $(RM) $(CLEANFILES)

156 bldenv: bldenv.sh stdenv.sh
157     $(RM) "$@"
158     sed -e '/# STDENV_START/ r stdenv.sh' bldenv.sh > "$@"
159     # Check for shell lint and fail if we hit warnings
160     shlintout=$( /usr/bin/ksh93 -n "$@" 2>&1 ) ; \
161         [[ "${shlintout}" != "" ]] && \
162         { print -r -- "${shlintout}" ; false ; } || true
163     $(CHMOD) +x "$@"

165 bldenv.lonbld: bldenv
166     $(RM) "$@"
167     (set +o errexit ; ksh93 $? --nroff ; true) 2>&1 | \
168     sed -e 's/\.DS/.nf/g;s/\.DE/.fi/' \
169     -e 's/\.TH BLDENV 1/.TH BLDENV 1ONBLD/' \
170     -e 's/(1)/(1ONBLD)/' > "$@"

172 nightly: nightly.sh stdenv.sh
173     $(RM) "$@"
174     sed -e '/# STDENV_START/ r stdenv.sh' nightly.sh > nightly
175     $(CHMOD) +x "$@"

177 include ../Makefile.targ
```