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*****
3412 Fri Sep 13 11:16:20 2013
new/usr/src/cmd/sa/Makefile
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
*****
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25 #endif /* ! codereview */
26 #
27 # cmd/sa/Makefile
28 #

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

33 include ../Makefile.cmd

35 ROOTMANIFESTDIR = $(ROOTSVCSYSTEM)

37 CERRWARN += _gcc=-Wno-parentheses
38 CERRWARN += _gcc=-Wno-uninitialized

40 GREP= grep

42 SADC= sadc
43 SADP= sadp
44 SAR= sar
45 TIMEX= timex
46 SA1= sa1
47 SA2= sa2

49 sadc := LDLIBS += -lkstat

51 # Executables produced
52 BINPROG= $(TIMEX)
53 SBINPROG= $(SAR)
54 LIBPROG= $(SADC)
55 LIBSHELL= $(SA1) $(SA2)
56 INITSHLL= $(PERF)

58 PROGS= $(BINPROG) $(SBINPROG) $(LIBPROG)
59 SHELLS= $(LIBSHELL)

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60 TXTS= $(SADP).c README
61 ALL= $(PROGS) $(SHELLS)

63 # Source files
64 SADC_OBJECTS= $(SADC).o
65 srcs= $(TIMEX) $(SAR) $(SADC)
66 SRCS= $(srcs:%=%.c)
67 SHSRCS= $(SHELLS:%=%.sh)

69 # Set of target install directories
70 LIBSAD= $(ROOT)/usr/lib/sa
71 CROND= $(ROOT)/var/spool/cron
72 CRONTABSD= $(CROND)/crontabs

74 # Set of target install files
75 SYSCRONTAB= $(CRONTABSD)/sys
76 ROOTPROG= $(BINPROG:%=$(ROOTBIN)/%)
77 ROOTUSBINPROG= $(SBINPROG:%=$(ROOTUSRSBIN)/%)
78 ROOTLIBPROG= $(LIBPROG:%=$(LIBSAD)/%)
79 ROOTLIBSHELL= $(LIBSHELL:%=$(LIBSAD)/%)
80 ROOTSYMLINKS= $(SBINPROG:%=$(ROOTBIN)/%)

82 # Performance monitoring should not be enabled by default. Hence, these
83 # entries are comments.
84 ENTRY1= '$(POUND_SIGN) 0 * * * 0-6 /usr/lib/sa/sa1'
85 ENTRY2= '$(POUND_SIGN) 20,40 8-17 * * 1-5 /usr/lib/sa/sa1'
86 ENTRY3= '$(POUND_SIGN) 5 18 * * 1-5 /usr/lib/sa/sa2 -s 8:00 -e 18:01 -i
24 # entries are comments. Note the difficulty of inserting a literal #
25 # in a makefile.... Wonderful parser here....
26 COMMENT_CHAR:= echo \043
27 ENTRY1= '$(COMMENT_CHAR) 0 * * * 0-6 /usr/lib/sa/sa1'
28 ENTRY2= '$(COMMENT_CHAR) 20,40 8-17 * * 1-5 /usr/lib/sa/sa1'
29 ENTRY3= '$(COMMENT_CHAR) 5 18 * * 1-5 /usr/lib/sa/sa2 -s 8:00 -e 18:01 -i

88 CLOBBERFILES= $(PROGS) $(SHELLS)

90 # Conditionals
91 $(LIBSAD)/$(SADC) := FILEMODE = 0555

93 .KEEP_STATE:

95 all: $(ALL) $(TXTS)

97 $(SADC): $(SADC_OBJECTS)
98 $(LINK.c) -o @$ $(SADC_OBJECTS) $(LDLIBS)
99 $(POST_PROCESS)

101 # The edit of SYSCRONTAB must be done unconditionally because of the
102 # creation of this file by a different component (Adm) and the possible
103 # backdating.
104 install: all $(ROOTPROG) $(ROOTUSBINPROG) \
105 $(ROOTINITSHLL) $(ROOTLIBSHELL) $(ROOTSYMLINKS) \
106 $(ROOTMANIFEST) $(ROOTSVCMETHOD) $(ROOTLIBPROG)
107 @if [ -f $(SYSCRONTAB) ]; \
108 then \
109 if $(GREP) "sa1" $(SYSCRONTAB) >/dev/null 2>&1 ; then :; \
110 else \
111 echo $(ENTRY1) >> $(SYSCRONTAB); \
112 echo $(ENTRY2) >> $(SYSCRONTAB); \
113 echo "$(SYSCRONTAB) modified"; \
114 fi; \
115 if $(GREP) "sa2" $(SYSCRONTAB) >/dev/null 2>&1 ; then :; \
116 else \
117 echo $(ENTRY3) >> $(SYSCRONTAB); \
118 fi; \
119 fi

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new/usr/src/cmd/sa/Makefile

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121 $(LIBSAD)/%: %
122     $(INS.file)

124 $(ROOTSYMLINKS):
125     -$(RM) $@; $(SYMLINK) ../sbin/`basename $@` $@

127 $(ETCINITD)/%: %
128     $(INS.file)

130 check: $(CHKMANIFEST)

132 clean:
133     $(RM) $(SADC_OBJECTS) $(PROGS) $(SHELLS) $(SADP)

135 lint: lint_SRCS

137 include ../Makefile.targ
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*****
23266 Fri Sep 13 11:16:20 2013
new/usr/src/uts/Makefile.uts
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
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27 #endif /* ! codereview */
28 #
29 #
30 #
31 # This Makefile contains the common targets and definitions for
32 # all kernels. It is to be included in the Makefiles for specific
33 # implementation architectures and processor architecture dependent
34 # modules: i.e.: all driving kernel Makefiles.
35 #
36 # Include global definitions:
37 #
38 include $(SRC)/Makefile.master
39 #
40 #
41 # No text domain in the kernel.
42 #
43 DTEXTDOM =
44 #
45 #
46 # Keep references to $(SRC)/common relative.
47 COMMONBASE= $(UTSBASE)/../common
48 #
49 #
50 # Setup build-specific vars
51 # To add a build type:
52 # add name to ALL_BUILDS32 & ALL_BUILDS64
53 # set CLASS_name and OBJ_DIR_name
54 # add targets to Makefile.targ
55 #
56 #
57 #
58 # DEF_BUILDS is for def, lint, sischeck, and install
59 # ALL_BUILDS is for everything else (all, clean, ...)

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60 #
61 # The NOT_RELEASE_BUILD noise is to maintain compatibility with the
62 # gatekeeper's nightly build script.
63 #
64 DEF_BUILDS32 = obj32
65 DEF_BUILDS64 = obj64
66 DEF_BUILDSONLY64 = obj64
67 $(NOT_RELEASE_BUILD)DEF_BUILDS32 = debug32
68 $(NOT_RELEASE_BUILD)DEF_BUILDS64 = debug64
69 $(NOT_RELEASE_BUILD)DEF_BUILDSONLY64 = debug64
70 ALL_BUILDS32 = obj32 debug32
71 ALL_BUILDS64 = obj64 debug64
72 ALL_BUILDSONLY64 = obj64 debug64
73 #
74 #
75 # For modules in 64b dirs that aren't built 64b
76 # or modules in 64b dirs that aren't built 32b we
77 # need to create empty modlintlib files so global lint works
78 #
79 LINT32_BUILDS = debug32
80 LINT64_BUILDS = debug64
81 #
82 #
83 # Build class (32b or 64b)
84 #
85 CLASS_OBJ32 = 32
86 CLASS_DBG32 = 32
87 CLASS_OBJ64 = 64
88 CLASS_DBG64 = 64
89 CLASS = $(CLASS_$(BUILD_TYPE))
90 #
91 #
92 # Build subdirectory
93 #
94 OBJ32_DIR_OBJ32 = obj32
95 OBJ32_DIR_DBG32 = debug32
96 OBJ32_DIR_OBJ64 = obj64
97 OBJ32_DIR_DBG64 = debug64
98 OBJ32_DIR = $(OBJ32_DIR_$(BUILD_TYPE))
99 #
100 #
101 # Create defaults so empty rules don't
102 # confuse make
103 #
104 CLASS_ = 32
105 OBJ32_DIR_ = debug32
106 #
107 #
108 # Build tools
109 #
110 CC_sparc_32 = $(sparc_CC)
111 CC_sparc_64 = $(sparcv9_CC)
112 #
113 CC_i386_32 = $(i386_CC)
114 CC_i386_64 = $(amd64_CC)
115 CC_amd64_64 = $(amd64_CC)
116 #
117 CC = $(CC_$(MACH)_$(CLASS))
118 #
119 AS_sparc_32 = $(sparc_AS)
120 AS_sparc_64 = $(sparcv9_AS)
121 #
122 AS_i386_32 = $(i386_AS)
123 AS_i386_64 = $(amd64_AS)
124 AS_amd64_64 = $(amd64_AS)

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126 AS          = $(AS_$(MACH)_$(CLASS))

128 LD_sparc_32 = $(sparc_LD)
129 LD_sparc_64 = $(sparcv9_LD)

131 LD_i386_32  = $(i386_LD)
132 LD_i386_64  = $(amd64_LD)
133 LD_amd64_64 = $(amd64_LD)

135 LD          = $(LD_$(MACH)_$(CLASS))

137 LINT_sparc_32 = $(sparc_LINT)
138 LINT_sparc_64 = $(sparcv9_LINT)

140 LINT_i386_32  = $(i386_LINT)
141 LINT_i386_64  = $(amd64_LINT)
142 LINT_amd64_64 = $(amd64_LINT)

144 LINT        = $(LINT_$(MACH)_$(CLASS))

146 MODEL_32    = ilp32
147 MODEL_64    = lp64
148 MODEL       = $(MODEL_$(CLASS))

150 #
151 #         Build rules for linting the kernel.
152 #
153 LHEAD = $(ECHO) "\n$@";

155 # Note: egrep returns "failure" if there are no matches, which is
156 # exactly the opposite of what we need.
157 LGREP.2 = if egrep -v ' (_init|_fini|_info) '; then false; else true; fi

159 LTAIL =

161 LINT.c = $(LINT) -c -dirout=$(LINTS_DIR) $(LINTFLAGS) $(LINT_DEFS) $(CPPF

163 # Please do not add new erroff directives here. If you need to disable
164 # lint warnings in your module for things that cannot be fixed in any
165 # reasonable manner, please augment LINTTAGS in your module Makefile
166 # instead.
167 LINTTAGS = -erroff=E_INCONS_ARG_DECL2
168 LINTTAGS += -erroff=E_INCONS_VAL_TYPE_DECL2

170 LINTFLAGS_sparc_32 = $(LINTCCMODE) -nsxmuF -errtags=yes
171 LINTFLAGS_sparc_64 = $(LINTFLAGS_sparc_32) -m64
172 LINTFLAGS_i386_32  = $(LINTCCMODE) -nsxmuF -errtags=yes
173 LINTFLAGS_i386_64  = $(LINTFLAGS_i386_32) -m64

175 LINTFLAGS = $(LINTFLAGS_$(MACH)_$(CLASS)) $(LINTTAGS)
176 LINTFLAGS += $(C99LMODE)

178 #
179 #         Override this variable to modify the name of the lint target.
180 #
181 LINT_MODULE= $(MODULE)

183 #
184 #         Build the compile/assemble lines:
185 #
186 EXTRA_OPTIONS =
187 AS_DEFS        = -D_ASM -D_STDC_=0

189 ALWAYS_DEFS_32 = -D_KERNEL -D_SYSCALL32 -D_DDI_STRICT
190 ALWAYS_DEFS_64 = -D_KERNEL -D_SYSCALL32 -D_SYSCALL32_IMPL -D_ELF64 \
191                -D_DDI_STRICT

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192 #
193 # XX64 This should be defined by the compiler!
194 #
195 ALWAYS_DEFS_64 += -Dsun -D_sun -D_SVR4
196 ALWAYS_DEFS    = $(ALWAYS_DEFS_$(CLASS))

198 #
199 #         CPPFLAGS is deliberately set with a "=" and not a "+=". For the kernel
200 #         the header include path should not look for header files outside of
201 #         the kernel code. This "=" removes the search path built in
202 #         Makefile.master inside CPPFLAGS. Ditto for AS_CPPFLAGS.
203 #
204 CPPFLAGS       = $(ALWAYS_DEFS) $(ALL_DEFS) $(CONFIG_DEFS) \
205                $(INCLUDE_PATH) $(EXTRA_OPTIONS)
206 ASFLAGS        += -P
207 AS_CPPFLAGS    = $(ALWAYS_DEFS) $(ALL_DEFS) $(CONFIG_DEFS) $(AS_DEFS) \
208                $(AS_INC_PATH) $(EXTRA_OPTIONS)

210 #
211 #         Make it (relatively) easy to share compilation options between
212 #         all kernel implementations.
213 #

215 # Override the default, the kernel is squeaky clean
216 CERRWARN = -errtags=yes -errwarn=all

218 CERRWARN += _gcc=-Wno-missing-braces
219 CERRWARN += _gcc=-Wno-sign-compare
220 CERRWARN += _gcc=-Wno-unknown-pragmas
221 CERRWARN += _gcc=-Wno-unused-parameter
222 CERRWARN += _gcc=-Wno-missing-field-initializers

224 # DEBUG v. -nd make for frequent unused variables, empty conditions, etc. in
225 # -nd builds
226 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-unused
227 $(RELEASE_BUILD)CERRWARN += _gcc=-Wno-empty-body

229 C99MODE = $(C99_ENABLE)

231 CFLAGS_uts =
232 CFLAGS_uts += $(STAND_FLAGS_$(CLASS))
233 CFLAGS_uts += $(CCVERBOSE)
234 CFLAGS_uts += $(ILDOFF)
235 CFLAGS_uts += $(XAOPT)
236 CFLAGS_uts += $(CTF_FLAGS_$(CLASS))
237 CFLAGS_uts += $(CERRWARN)
238 CFLAGS_uts += $(CCNOAUTOINLINE)
239 CFLAGS_uts += $(CGLOBALSTATIC)
240 CFLAGS_uts += $(EXTRA_CFLAGS)
241 CFLAGS_uts += $(CSOURCEDEBUGFLAGS)
242 CFLAGS_uts += $(USERFLAGS)

244 #
245 #         Declare that $(OBJECTS) and $(LINTS) can be compiled in parallel.
246 #         The DUMMY target is for those instances where OBJECTS and LINTS
247 #         are empty (to avoid an unconditional .PARALLEL).
248 .PARALLEL: $(OBJECTS) $(LINTS) DUMMY

250 #
251 #         Expanded dependencies
252 #
253 DEF_DEPS = $(DEF_BUILDS:%=def.%)
254 ALL_DEPS = $(ALL_BUILDS:%=all.%)
255 CLEAN_DEPS = $(ALL_BUILDS:%=clean.%)
256 CLOBBER_DEPS = $(ALL_BUILDS:%=clobber.%)
257 LINT_DEPS = $(DEF_BUILDS:%=lint.%)

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258 MODLINTLIB_DEPS = $(DEF_BUILDS:%=modlintlib.%)
259 MODLIST_DEPS    = $(DEF_BUILDS:%=modlist.%)
260 CLEAN_LINT_DEPS = $(ALL_BUILDS:%=clean.lint.%)
261 INSTALL_DEPS    = $(DEF_BUILDS:%=install.%)
262 SYM_DEPS        = $(SYM_BUILDS:%=symcheck.%)
263 SISCHECK_DEPS  = $(DEF_BUILDS:%=sischeck.%)
264 SISCLEAN_DEPS  = $(ALL_BUILDS:%=sisclean.%)

266 #
267 #     Default module name
268 #
269 BINARY          = $(OBJS_DIR)/$(MODULE)

271 #
272 #     Default cleanup definitions
273 #
274 CLEANLINTFILES  = $(LINTS) $(MOD_LINT_LIB)
275 CLEANFILES      = $(OBJECTS) $(CLEANLINTFILES)
276 CLOBBERFILES    = $(BINARY) $(CLEANFILES)

278 #
279 #     Installation constants:
280 #
281 #     FILEMODE is the mode given to the kernel modules
282 #     CFILEMODE is the mode given to the '.conf' files
283 #
284 FILEMODE        = 755
285 DIRMODE         = 755
286 CFILEMODE       = 644

288 #
289 #     Special Installation Macros for the installation of '.conf' files.
290 #
291 #     These are unique because they are not installed from the current
292 #     working directory.
293 #
294 #     Sigh. Apparently at some time in the past there was a confusion on
295 #     whether the name is SRC_CONFFILE or SRC_CONFFILE. Consistency with the
296 #     other names would indicate SRC_CONFFILE, but the voting is >180 Makefiles
297 #     with SRC_CONFFILE and about 11 with SRC_CONFFILE. Software development
298 #     isn't a popularity contest, though, and so my inclination is to define
299 #     both names for now and incrementally convert to SRC_CONFFILE to be consistent
300 #     with the other names.
301 #
302 CONFFILE        = $(MODULE).conf
303 SRC_CONFFILE    = $(CONF_SRCDIR)/$(CONFFILE)
304 SRC_CONFFILE    = $(SRC_CONFFILE)
305 ROOT_CONFFILE_32 = $(ROOTMODULE).conf
306 ROOT_CONFFILE_64 = $(ROOTMODULE:%/$(SUBDIR64))/$(MODULE)%/$(MODULE).conf
307 ROOT_CONFFILE   = $(ROOT_CONFFILE_$(CLASS))

310 INS.conf= \
311     $(RM) $@; $(INS) -s -m $(CFILEMODE) -f $(@D) $(SRC_CONFFILE)

313 #
314 # The CTF merge of child kernel modules is performed against one of the genunix
315 # modules. For Intel builds, all modules will be used with a single genunix:
316 # the one built in intel/genunix. For SPARC builds, a given
317 # module may be
318 # used with one of a number of genunix files, depending on what platform the
319 # module is deployed on. We merge against the sun4u genunix to optimize for
320 # the common case. We also merge against the ip driver since networking is
321 # typically loaded and types defined therein are shared between many modules.
322 #
323 CTFMERGE_GUDIR_sparc = sun4u

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324 CTFMERGE_GUDIR_i386 = intel
325 CTFMERGE_GUDIR      = $(CTFMERGE_GUDIR_$(MACH))

327 CTFMERGE_GENUNIX    = \
328     $(UTSBASE)/$(CTFMERGE_GUDIR)/genunix/$(OBJS_DIR)/genunix

330 #
331 # Used to uniquify a non-genunix module against genunix. If used in patch
332 # mode (PATCH_BUILD != "#"), the patch ID corresponding to the module being
333 # built will be used as the label. If no ID is available, or if patch mode
334 # is not being used, the value of $VERSION will be used.
335 #
336 # For the ease of developers dropping modules onto possibly unrelated systems,
337 # you can set NO_GENUNIX_UNIQUIFY= in the environment to skip uniquifying
338 # against genunix.
339 #
340 NO_GENUNIX_UNIQUIFY=$(POUND_SIGN)
341 SKIP_GENUNIX_UNIQUIFY=no
342 $(NO_GENUNIX_UNIQUIFY)SKIP_GENUNIX_UNIQUIFY=yes

344 CTFMERGE_UNIQUIFY_AGAINST_GENUNIX = \
345     @label="-L VERSION" ; \
346     uniq= ; \
347     if [ -z "$(PATCH_BUILD)" ] ; then \
348         uniq="-D BASE" ; \
349         set -- `$(CTFFINDMOD) -n -r -t $(PMTMO_FILE) $@` ; \
350         if [ "X$$1" != "X-" ] ; then \
351             label="-l $$1" ; \
352             if [ "$$2" != "fcs" ] ; then \
353                 uniq="-D $$2" ; \
354             fi ; \
355         fi ; \
356     fi ; \
357     if [ "$(SKIP_GENUNIX_UNIQUIFY)" = "yes" ] ; then \
358         uniq= ; \
359     else \
360         uniq="-d $(CTFMERGE_GENUNIX) $$uniq" ; \
361     fi ; \
362     cmd="$(CTFMERGE) $(CTFMERGE_FLAGS) $$label $$uniq" ; \
363     cmd="$${cmd} -o $@ $(OBJECTS) $(CTFEXTRAOBJS)" ; \
364     echo $$cmd ; \
365     $$cmd

367 #
368 # Used to merge the genunix module. genunix has special requirements in
369 # patch mode. In particular, it needs to be able to find the genunix used
370 # in the previous version of the KU patch (or the FCS version of genunix in
371 # the case of KU 1).
372 #
373 CTFMERGE_GENUNIX_MERGE = \
374     @if [ -z "$(PATCH_BUILD)" ] ; then \
375         set -- `$(CTFFINDMOD) -b $(OBJS_DIR) -o patch,lastgu -n -r \
376             -t $(PMTMO_FILE) $(GENUNIX) || true` ' ' ; \
377         msg= ; \
378         if [ $$$$(POUND_SIGN) -eq 1 ] ; \
379             then msg="Error in $(CTFFINDMOD)" ; \
380         elif [ "X$$1" = "X-" ] ; then msg="Did not get label" ; \
381         elif [ "X$$2" = "X-" ] ; then msg="Did not get withfile" ; \
382         fi ; \
383         if [ -n "$$msg" ] ; then \
384             echo "make ctf: $$msg - removing $(GENUNIX)" ; \
385             $(RM) $(GENUNIX) ; \
386             exit 1 ; \
387         fi ; \
388         label="-l $$1" ; \
389         with="-w $$2" ; \

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390     else \
391         label="-L VERSION" ; \
392     fi ; \
393     cmd="$(CTFMERGE) $(CTFMERGEFLAGS) $$label $$with -o @$@" ; \
394     echo $$cmd "$(OBJECTS) $(CTFEXTRAOBSJS) $(IPCTF_TARGET)"; \
395     $$cmd $(OBJECTS) $(CTFEXTRAOBSJS) $(IPCTF_TARGET)

397 #
398 # We ctfmerge the ip objects into genunix to maximize the number of common types
399 # found there, thus maximizing the effectiveness of unification. We don't
400 # want the genunix build to have to know about the individual ip objects, so we
401 # put them in an archive. The genunix ctfmerge then includes this archive.
402 #
403 IPCTF          = $(IPDRV_DIR)/$(OBSJS_DIR)/ipctf.a

405 #
406 # Rule for building fake shared libraries used for symbol resolution
407 # when building other modules. -znoreloc is needed here to avoid
408 # tripping over code that isn't really suitable for shared libraries.
409 #
410 BUILD.SO      = \
411     $(LD) -o @$@ $(GSHARED) $(ZNORELOC) -h $(SONAME)

413 #
414 # SONAME defaults for common fake shared libraries.
415 #
416 $(LIBGEN)      := SONAME = $(MODULE)
417 $(PLATLIB)     := SONAME = misc/platmod
418 $(CPULIB)     := SONAME = 'cpu/$$CPU'
419 $(DTRACESTUBS) := SONAME = dtracestubs

421 #
422 # Installation directories
423 #
425 #
426 # For now, 64b modules install into a subdirectory
427 # of their 32b brethren.
428 #
429 SUBDIR64_sparc = sparcv9
430 SUBDIR64_i386  = amd64
431 SUBDIR64       = $(SUBDIR64_$(MACH))

433 ROOT_MOD_DIR  = $(ROOT)/kernel

435 ROOT_KERN_DIR_32 = $(ROOT_MOD_DIR)
436 ROOT_BRAND_DIR_32 = $(ROOT_MOD_DIR)/brand
437 ROOT_DRV_DIR_32  = $(ROOT_MOD_DIR)/drv
438 ROOT_DTRACE_DIR_32 = $(ROOT_MOD_DIR)/dtrace
439 ROOT_EXEC_DIR_32  = $(ROOT_MOD_DIR)/exec
440 ROOT_FS_DIR_32    = $(ROOT_MOD_DIR)/fs
441 ROOT_SCHED_DIR_32 = $(ROOT_MOD_DIR)/sched
442 ROOT_SOCKET_DIR_32 = $(ROOT_MOD_DIR)/socketmod
443 ROOT_STRMOD_DIR_32 = $(ROOT_MOD_DIR)/strmod
444 ROOT_IPP_DIR_32  = $(ROOT_MOD_DIR)/ipp
445 ROOT_SYS_DIR_32  = $(ROOT_MOD_DIR)/sys
446 ROOT_MISC_DIR_32 = $(ROOT_MOD_DIR)/misc
447 ROOT_KGSS_DIR_32 = $(ROOT_MOD_DIR)/misc/kgss
448 ROOT_SCSI_VHCI_DIR_32 = $(ROOT_MOD_DIR)/misc/scsi_vhci
449 ROOT_PMCS_FW_DIR_32 = $(ROOT_MOD_DIR)/misc/pmcs
450 ROOT_QLC_FW_DIR_32 = $(ROOT_MOD_DIR)/misc/qlc
451 ROOT_EMLXS_FW_DIR_32 = $(ROOT_MOD_DIR)/misc/emlxs
452 ROOT_NLMISC_DIR_32 = $(ROOT_MOD_DIR)/misc
453 ROOT_MACH_DIR_32  = $(ROOT_MOD_DIR)/mach
454 ROOT_CPU_DIR_32   = $(ROOT_MOD_DIR)/cpu
455 ROOT_TOD_DIR_32   = $(ROOT_MOD_DIR)/tod

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456 ROOT_FONT_DIR_32 = $(ROOT_MOD_DIR)/fonts
457 ROOT_DACF_DIR_32 = $(ROOT_MOD_DIR)/dacf
458 ROOT_CRYPTODIR_32 = $(ROOT_MOD_DIR)/crypto
459 ROOT_MAC_DIR_32  = $(ROOT_MOD_DIR)/mac
460 ROOT_KICONV_DIR_32 = $(ROOT_MOD_DIR)/kiconv

462 ROOT_KERN_DIR_64 = $(ROOT_MOD_DIR)/$(SUBDIR64)
463 ROOT_BRAND_DIR_64 = $(ROOT_MOD_DIR)/brand/$(SUBDIR64)
464 ROOT_DRV_DIR_64   = $(ROOT_MOD_DIR)/drv/$(SUBDIR64)
465 ROOT_DTRACE_DIR_64 = $(ROOT_MOD_DIR)/dtrace/$(SUBDIR64)
466 ROOT_EXEC_DIR_64  = $(ROOT_MOD_DIR)/exec/$(SUBDIR64)
467 ROOT_FS_DIR_64    = $(ROOT_MOD_DIR)/fs/$(SUBDIR64)
468 ROOT_SCHED_DIR_64 = $(ROOT_MOD_DIR)/sched/$(SUBDIR64)
469 ROOT_SOCKET_DIR_64 = $(ROOT_MOD_DIR)/socketmod/$(SUBDIR64)
470 ROOT_STRMOD_DIR_64 = $(ROOT_MOD_DIR)/strmod/$(SUBDIR64)
471 ROOT_IPP_DIR_64   = $(ROOT_MOD_DIR)/ipp/$(SUBDIR64)
472 ROOT_SYS_DIR_64   = $(ROOT_MOD_DIR)/sys/$(SUBDIR64)
473 ROOT_MISC_DIR_64  = $(ROOT_MOD_DIR)/misc/$(SUBDIR64)
474 ROOT_KGSS_DIR_64  = $(ROOT_MOD_DIR)/misc/kgss/$(SUBDIR64)
475 ROOT_SCSI_VHCI_DIR_64 = $(ROOT_MOD_DIR)/misc/scsi_vhci/$(SUBDIR64)
476 ROOT_PMCS_FW_DIR_64 = $(ROOT_MOD_DIR)/misc/pmcs/$(SUBDIR64)
477 ROOT_QLC_FW_DIR_64 = $(ROOT_MOD_DIR)/misc/qlc/$(SUBDIR64)
478 ROOT_EMLXS_FW_DIR_64 = $(ROOT_MOD_DIR)/misc/emlxs/$(SUBDIR64)
479 ROOT_NLMISC_DIR_64 = $(ROOT_MOD_DIR)/misc/$(SUBDIR64)
480 ROOT_MACH_DIR_64  = $(ROOT_MOD_DIR)/mach/$(SUBDIR64)
481 ROOT_CPU_DIR_64   = $(ROOT_MOD_DIR)/cpu/$(SUBDIR64)
482 ROOT_TOD_DIR_64   = $(ROOT_MOD_DIR)/tod/$(SUBDIR64)
483 ROOT_FONT_DIR_64  = $(ROOT_MOD_DIR)/fonts/$(SUBDIR64)
484 ROOT_DACF_DIR_64  = $(ROOT_MOD_DIR)/dacf/$(SUBDIR64)
485 ROOT_CRYPTODIR_64 = $(ROOT_MOD_DIR)/crypto/$(SUBDIR64)
486 ROOT_MAC_DIR_64   = $(ROOT_MOD_DIR)/mac/$(SUBDIR64)
487 ROOT_KICONV_DIR_64 = $(ROOT_MOD_DIR)/kiconv/$(SUBDIR64)

489 ROOT_KERN_DIR = $(ROOT_KERN_DIR_$(CLASS))
490 ROOT_BRAND_DIR = $(ROOT_BRAND_DIR_$(CLASS))
491 ROOT_DRV_DIR = $(ROOT_DRV_DIR_$(CLASS))
492 ROOT_DTRACE_DIR = $(ROOT_DTRACE_DIR_$(CLASS))
493 ROOT_EXEC_DIR = $(ROOT_EXEC_DIR_$(CLASS))
494 ROOT_FS_DIR = $(ROOT_FS_DIR_$(CLASS))
495 ROOT_SCHED_DIR = $(ROOT_SCHED_DIR_$(CLASS))
496 ROOT_SOCKET_DIR = $(ROOT_SOCKET_DIR_$(CLASS))
497 ROOT_STRMOD_DIR = $(ROOT_STRMOD_DIR_$(CLASS))
498 ROOT_IPP_DIR = $(ROOT_IPP_DIR_$(CLASS))
499 ROOT_SYS_DIR = $(ROOT_SYS_DIR_$(CLASS))
500 ROOT_MISC_DIR = $(ROOT_MISC_DIR_$(CLASS))
501 ROOT_KGSS_DIR = $(ROOT_KGSS_DIR_$(CLASS))
502 ROOT_SCSI_VHCI_DIR = $(ROOT_SCSI_VHCI_DIR_$(CLASS))
503 ROOT_PMCS_FW_DIR = $(ROOT_PMCS_FW_DIR_$(CLASS))
504 ROOT_QLC_FW_DIR = $(ROOT_QLC_FW_DIR_$(CLASS))
505 ROOT_EMLXS_FW_DIR = $(ROOT_EMLXS_FW_DIR_$(CLASS))
506 ROOT_NLMISC_DIR = $(ROOT_NLMISC_DIR_$(CLASS))
507 ROOT_MACH_DIR = $(ROOT_MACH_DIR_$(CLASS))
508 ROOT_CPU_DIR = $(ROOT_CPU_DIR_$(CLASS))
509 ROOT_TOD_DIR = $(ROOT_TOD_DIR_$(CLASS))
510 ROOT_FONT_DIR = $(ROOT_FONT_DIR_$(CLASS))
511 ROOT_DACF_DIR = $(ROOT_DACF_DIR_$(CLASS))
512 ROOT_CRYPTODIR = $(ROOT_CRYPTODIR_$(CLASS))
513 ROOT_MAC_DIR = $(ROOT_MAC_DIR_$(CLASS))
514 ROOT_KICONV_DIR = $(ROOT_KICONV_DIR_$(CLASS))

516 ROOT_MOD_DIRS_32 = $(ROOT_BRAND_DIR_32) $(ROOT_DRV_DIR_32)
517 ROOT_MOD_DIRS_32 = $(ROOT_BRAND_DIR_32) $(ROOT_DRV_DIR_32)
518 ROOT_MOD_DIRS_32 += $(ROOT_EXEC_DIR_32) $(ROOT_DTRACE_DIR_32)
519 ROOT_MOD_DIRS_32 += $(ROOT_FS_DIR_32) $(ROOT_SCHED_DIR_32)
520 ROOT_MOD_DIRS_32 += $(ROOT_STRMOD_DIR_32) $(ROOT_SYS_DIR_32)
521 ROOT_MOD_DIRS_32 += $(ROOT_IPP_DIR_32) $(ROOT_SOCKET_DIR_32)

```

```

522 ROOT_MOD_DIRS_32 += $(ROOT_MISC_DIR_32) $(ROOT_MACH_DIR_32)
523 ROOT_MOD_DIRS_32 += $(ROOT_KGSS_DIR_32)
524 ROOT_MOD_DIRS_32 += $(ROOT_SCSI_VHCI_DIR_32)
525 ROOT_MOD_DIRS_32 += $(ROOT_PMCS_FW_DIR_32)
526 ROOT_MOD_DIRS_32 += $(ROOT_QLC_FW_DIR_32)
527 ROOT_MOD_DIRS_32 += $(ROOT_EMLXS_FW_DIR_32)
528 ROOT_MOD_DIRS_32 += $(ROOT_CPU_DIR_32) $(ROOT_FONT_DIR_32)
529 ROOT_MOD_DIRS_32 += $(ROOT_TOD_DIR_32) $(ROOT_DACF_DIR_32)
530 ROOT_MOD_DIRS_32 += $(ROOT_CRYPTODIR_32) $(ROOT_MAC_DIR_32)
531 ROOT_MOD_DIRS_32 += $(ROOT_KICONV_DIR_32)

533 USR_MOD_DIR      = $(ROOT)/usr/kernel

535 USR_DRV_DIR_32    = $(USR_MOD_DIR)/drv
536 USR_EXEC_DIR_32  = $(USR_MOD_DIR)/exec
537 USR_FS_DIR_32     = $(USR_MOD_DIR)/fs
538 USR_SCHED_DIR_32 = $(USR_MOD_DIR)/sched
539 USR_SOCKET_DIR_32 = $(USR_MOD_DIR)/socketmod
540 USR_STRMOD_DIR_32 = $(USR_MOD_DIR)/strmod
541 USR_SYS_DIR_32    = $(USR_MOD_DIR)/sys
542 USR_MISC_DIR_32  = $(USR_MOD_DIR)/misc
543 USR_DACF_DIR_32  = $(USR_MOD_DIR)/dacf
544 USR_PCBE_DIR_32  = $(USR_MOD_DIR)/pcbe
545 USR_DTRACE_DIR_32 = $(USR_MOD_DIR)/dtrace
546 USR_BRAND_DIR_32 = $(USR_MOD_DIR)/brand

548 USR_DRV_DIR_64    = $(USR_MOD_DIR)/drv/$(SUBDIR64)
549 USR_EXEC_DIR_64  = $(USR_MOD_DIR)/exec/$(SUBDIR64)
550 USR_FS_DIR_64     = $(USR_MOD_DIR)/fs/$(SUBDIR64)
551 USR_SCHED_DIR_64 = $(USR_MOD_DIR)/sched/$(SUBDIR64)
552 USR_SOCKET_DIR_64 = $(USR_MOD_DIR)/socketmod/$(SUBDIR64)
553 USR_STRMOD_DIR_64 = $(USR_MOD_DIR)/strmod/$(SUBDIR64)
554 USR_SYS_DIR_64    = $(USR_MOD_DIR)/sys/$(SUBDIR64)
555 USR_MISC_DIR_64  = $(USR_MOD_DIR)/misc/$(SUBDIR64)
556 USR_DACF_DIR_64  = $(USR_MOD_DIR)/dacf/$(SUBDIR64)
557 USR_PCBE_DIR_64  = $(USR_MOD_DIR)/pcbe/$(SUBDIR64)
558 USR_DTRACE_DIR_64 = $(USR_MOD_DIR)/dtrace/$(SUBDIR64)
559 USR_BRAND_DIR_64 = $(USR_MOD_DIR)/brand/$(SUBDIR64)

561 USR_DRV_DIR      = $(USR_DRV_DIR_$(CLASS))
562 USR_EXEC_DIR     = $(USR_EXEC_DIR_$(CLASS))
563 USR_FS_DIR       = $(USR_FS_DIR_$(CLASS))
564 USR_SCHED_DIR    = $(USR_SCHED_DIR_$(CLASS))
565 USR_SOCKET_DIR   = $(USR_SOCKET_DIR_$(CLASS))
566 USR_STRMOD_DIR   = $(USR_STRMOD_DIR_$(CLASS))
567 USR_SYS_DIR      = $(USR_SYS_DIR_$(CLASS))
568 USR_MISC_DIR     = $(USR_MISC_DIR_$(CLASS))
569 USR_DACF_DIR     = $(USR_DACF_DIR_$(CLASS))
570 USR_PCBE_DIR     = $(USR_PCBE_DIR_$(CLASS))
571 USR_DTRACE_DIR   = $(USR_DTRACE_DIR_$(CLASS))
572 USR_BRAND_DIR    = $(USR_BRAND_DIR_$(CLASS))

574 USR_MOD_DIRS_32 = $(USR_DRV_DIR_32) $(USR_EXEC_DIR_32)
575 USR_MOD_DIRS_32 += $(USR_FS_DIR_32) $(USR_SCHED_DIR_32)
576 USR_MOD_DIRS_32 += $(USR_STRMOD_DIR_32) $(USR_SYS_DIR_32)
577 USR_MOD_DIRS_32 += $(USR_MISC_DIR_32) $(USR_DACF_DIR_32)
578 USR_MOD_DIRS_32 += $(USR_PCBE_DIR_32)
579 USR_MOD_DIRS_32 += $(USR_DTRACE_DIR_32) $(USR_BRAND_DIR_32)
580 USR_MOD_DIRS_32 += $(USR_SOCKET_DIR_32)

582 #
583 #
584 #
585 include $(SRC)/Makefile.psm

587 #

```

```

588 # The "-r" on the remove may be considered temporary, but is required
589 # while the replacement of the SUNW,SPARCstation-10,SX directory by
590 # a symbolic link is being propagated.
591 #
592 # IMPORTANT:: if you change any of these INS.mumble rules, then you MUST also
593 # change the corresponding override definitions in $CLOSED/Makefile.tonic.
594 # If you do not do this, then the closedbins build for the OpenSolaris
595 # community will break. PS, the gatekeepers will be upset too.
596 #
597 INS.slink1= $(RM) -r $@; $(SYMLINK) $(PLATFORM) $@
598 INS.slink2= $(RM) -r $@; $(SYMLINK) ../$(PLATFORM)/$(@F) $@
599 INS.slink3= $(RM) -r $@; $(SYMLINK) $(IMPLEMENTED_PLATFORM) $@
600 INS.slink4= $(RM) -r $@; $(SYMLINK) ../$(PLATFORM)/include $@
601 INS.slink5= $(RM) -r $@; $(SYMLINK) ../$(PLATFORM)/sbin $@
602 INS.slink6= $(RM) -r $@; $(SYMLINK) ../../$(PLATFORM)/lib/$(MODULE) $@
603 INS.slink7= $(RM) -r $@; $(SYMLINK) ../../$(PLATFORM)/sbin/$(@F) $@

605 ROOT_PLAT_LINKS = $(PLAT_LINKS:%=$(ROOT_PLAT_DIR)/%)
606 ROOT_PLAT_LINKS_2 = $(PLAT_LINKS_2:%=$(ROOT_PLAT_DIR)/%)
607 USR_PLAT_LINKS = $(PLAT_LINKS:%=$(USR_PLAT_DIR)/%)
608 USR_PLAT_LINKS_2 = $(PLAT_LINKS_2:%=$(USR_PLAT_DIR)/%)

610 #
611 # Collection of all relevant, delivered kernel modules.
612 #
613 # Note that we insist on building genunix first, because everything else
614 # unquifies against it. When doing a 'make' from usr/src/uts/, we'll enter
615 # the platform directories first. These will cd into the corresponding genunix
616 # directory and build it. So genunix /shouldn't/ get rebuilt when we get to
617 # building all the kernel modules. However, due to an as-yet-unexplained
618 # problem with dependencies, sometimes it does get rebuilt, which then messes
619 # up the other modules. So we always force the issue here rather than try to
620 # build genunix in parallel with everything else.
621 #
622 PARALLEL_KMODS = $(DRV_KMODS) $(EXEC_KMODS) $(FS_KMODS) $(SCHED_KMODS) \
623 $(TOD_KMODS) $(STRMOD_KMODS) $(SYS_KMODS) $(MISC_KMODS) \
624 $(NLMISC_KMODS) $(MACH_KMODS) $(CPU_KMODS) $(GSS_KMODS) \
625 $(MMU_KMODS) $(DACF_KMODS) $(EXPORT_KMODS) $(IPP_KMODS) \
626 $(CRYPTO_KMODS) $(PCBE_KMODS) \
627 $(DRV_KMODS_$(CLASS)) $(MISC_KMODS_$(CLASS)) $(MAC_KMODS) \
628 $(BRAND_KMODS) $(KICONV_KMODS) \
629 $(SOCKET_KMODS)

631 KMODS = $(GENUNIX_KMODS) $(PARALLEL_KMODS)

633 $(PARALLEL_KMODS): $(GENUNIX_KMODS)

635 $(CLOSED_BUILD)CLOSED_KMODS = $(CLOSED_DRV_KMODS) $(CLOSED_TOD_KMODS) \
636 $(CLOSED_MISC_KMODS) $(CLOSED_CPU_KMODS) \
637 $(CLOSED_NLMISC_KMODS) $(CLOSED_DRV_KMODS_$(CLASS))

639 LINT_KMODS = $(DRV_KMODS) $(EXEC_KMODS) $(FS_KMODS) $(SCHED_KMODS) \
640 $(TOD_KMODS) $(STRMOD_KMODS) $(SYS_KMODS) $(MISC_KMODS) \
641 $(MACH_KMODS) $(GSS_KMODS) $(DACF_KMODS) $(IPP_KMODS) \
642 $(CRYPTO_KMODS) $(PCBE_KMODS) \
643 $(DRV_KMODS_$(CLASS)) $(MISC_KMODS_$(CLASS)) $(MAC_KMODS) \
644 $(BRAND_KMODS) $(KICONV_KMODS) $(SOCKET_KMODS)

646 $(CLOSED_BUILD)CLOSED_LINT_KMODS = $(CLOSED_DRV_KMODS) $(CLOSED_TOD_KMODS) \
647 $(CLOSED_MISC_KMODS) $(CLOSED_DRV_KMODS_$(CLASS))

649 THIS_YEAR:sh= /bin/date +%Y
650 $(OBJDIR)/logsubr.o := CPPFLAGS += -DTHIS_YEAR=$(THIS_YEAR)
651 $(OBJDIR)/logsubr.ln := CPPFLAGS += -DTHIS_YEAR=$(THIS_YEAR)

653 #

```

```
654 # Files to be compiled with -xa, to generate basic block execution
655 # count data.
656 #
657 # There are several ways to compile parts of the kernel for kcov:
658 # 1) Add targets to BB_FILES here or in other Makefiles
659 # (they must in the form of $(OBJS_DIR)/target.o)
660 # 2) setenv BB_FILES '$(XXX_OBJS:%=$(OBJS_DIR)/%)'
661 # 3) setenv BB_FILES '$(OBJECTS)'
662 #
663 # Do NOT setenv CFLAGS -xa, as that will cause infinite recursion
664 # in unix_bb.o
665 #
666 BB_FILES =
667 $(BB_FILES) := XAOPT = -xa

669 #
670 # The idea here is for unix_bb.o to be in all kernels except the
671 # kernel which actually gets shipped to customers. In practice,
672 # $(RELEASE_BUILD) is on for a number of the late beta and fcs builds.
673 #
674 $(NOT_RELEASE_BUILD)$ (OBJS_DIR)/unix_bb.o := CPPFLAGS += -DKCOV
675 $(NOT_RELEASE_BUILD)$ (OBJS_DIR)/unix_bb.ln := CPPFLAGS += -DKCOV
26 CODE_COVERAGE=
27 $(RELEASE_BUILD)CODE_COVERAGE:sh= echo \\043
28 $(CODE_COVERAGE)$ (OBJS_DIR)/unix_bb.o := CPPFLAGS += -DKCOV
29 $(CODE_COVERAGE)$ (OBJS_DIR)/unix_bb.ln := CPPFLAGS += -DKCOV

677 #
678 # Do not let unix_bb.o get compiled with -xa!
679 #
680 $(OBJS_DIR)/unix_bb.o := XAOPT =

682 #
683 # Privilege files
684 #
685 PRIVS_AWK = $(SRC)/uts/common/os/privs.awk
686 PRIVS_DEF = $(SRC)/uts/common/os/priv_defs

688 #
689 # USB device data
690 #
691 USBDEVS_AWK = $(SRC)/uts/common/io/usb/usbdevs2h.awk
692 USBDEVS_DATA = $(SRC)/uts/common/io/usb/usbdevs
```



```

*****
9268 Fri Sep 13 11:16:20 2013
new/usr/src/uts/i86pc/Makefile.i86pc.shared
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
*****
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 # uts/i86pc/Makefile.i86pc
24 #
25 # Copyright (c) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
26 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
27 #endif /* ! codereview */
28 #
29 #
30 # This makefile contains the common definitions for the i86pc unix
31 # and all i86pc implementation architecture dependent modules.
32 #
33 #
34 #
35 # Machine type (implementation architecture):
36 #
37 PLATFORM = i86pc
38 #
39 #
40 # uname -m value
41 #
42 UNAME_M = $(PLATFORM)
43 #
44 #
45 # Definitions for the platform-specific /platform directories.
46 #
47 # IMPLEMENTATIONS is used to designate i86pc machines which have
48 # platform specific modules. All code specific to a given implementation
49 # resides in the appropriately named subdirectory. This requires
50 # these platforms to have their own Makefiles to define ROOT_PLAT_DIRS,
51 # USR_PLAT_DIRS, etc.
52 #
53 IMPLEMENTATIONS = i86hvm
54 #
55 #
56 # Everybody needs to know how to build modstubs.o and to locate unix.o
57 #
58 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
59 GENLIB_DIR = $(UTSBASE)/intel/genunix

```

```

60 MODSTUBS_DIR = $(UNIX_DIR)
61 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
62 LINTS_DIR = $(OBJS_DIR)
63 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
64 GEN_LINT_LIB_DIR = $(UTSBASE)/intel/lint-libs/$(OBJS_DIR)
65 #
66 LINT32_DIRS = $(LINT32_BUILDS:%=$(UTSBASE)/$(PLATFORM)/lint-libs/%)
67 LINT32_FILES = $(LINT32_DIRS:%=/llib-1$(MODULE).ln)
68 #
69 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
70 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so
71 #
72 SYM_MOD = $(OBJS_DIR)/unix.sym
73 #
74 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
75 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
76 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so
77 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
78 DBOOT_LINT_LIB = $(LINT_LIB_DIR)/llib-lboot.ln
79 GEN_LINT_LIB = $(GEN_LINT_LIB_DIR)/llib-lgenunix.ln
80 #
81 #
82 # Include the makefiles which define build rule templates, the
83 # collection of files per module, and a few specific flags. Note
84 # that order is significant, just as with an include path. The
85 # first build rule template which matches the files name will be
86 # used. By including these in order from most machine dependent
87 # to most machine independent, we allow a machine dependent file
88 # to be used in preference over a machine independent version
89 # (such as a machine specific optimization, which preserves the
90 # interfaces.)
91 #
92 include $(UTSTREE)/$(PLATFORM)/Makefile.files
93 include $(UTSTREE)/intel/Makefile.files
94 include $(UTSTREE)/common/Makefile.files
95 #
96 #
97 # Include machine independent rules. Note that this does not imply
98 # that the resulting module from rules in Makefile.uts is machine
99 # independent. Only that the build rules are machine independent.
100 #
101 include $(UTSBASE)/Makefile.uts
102 #
103 #
104 # Define supported builds
105 #
106 DEF_BUILDS = $(DEF_BUILDS64) $(DEF_BUILDS32)
107 ALL_BUILDS = $(ALL_BUILDS64) $(ALL_BUILDS32)
108 #
109 #
110 # x86 or amd64 inline templates
111 #
112 INLINES_32 = $(UTSBASE)/intel/ia32/ml/ia32.il \
113 $(UTSBASE)/$(PLATFORM)/ml/ia32.il
114 INLINES_64 = $(UTSBASE)/intel/amd64/ml/amd64.il \
115 $(UTSBASE)/$(PLATFORM)/ml/amd64.il
116 INLINES += $(INLINES_$(CLASS))
117 #
118 #
119 # kernel-specific optimizations; override default in Makefile.master
120 #
121 #
122 CFLAGS_XARCH_32 = $(i386_CFLAGS)
123 CFLAGS_XARCH_64 = $(amd64_CFLAGS)
124 CFLAGS_XARCH = $(CFLAGS_XARCH_$(CLASS))

```

```

126 COPTFLAG_32      = $(COPTFLAG)
127 COPTFLAG_64      = $(COPTFLAG64)
128 COPTIMIZE         = $(COPTFLAG_$(CLASS))

130 CFLAGS           = $(CFLAGS_XARCH)
131 CFLAGS            += $(COPTIMIZE)
132 CFLAGS            += $(INLINES) -D_ASM_INLINES
133 CFLAGS            += $(CCMODE)
134 CFLAGS            += $(SPACEFLAG)
135 CFLAGS            += $(CCUNBOUND)
136 CFLAGS            += $(CFLAGS_uts)
137 CFLAGS            += -xstrconst

139 ASFLAGS_XARCH_32  = $(i386_ASFLAGS)
140 ASFLAGS_XARCH_64  = $(amd64_ASFLAGS)
141 ASFLAGS_XARCH     = $(ASFLAGS_XARCH_$(CLASS))

143 ASFLAGS           += $(ASFLAGS_XARCH)

145 AS_INC_PATH       += -I$(DSF_DIR)/$(OBJS_DIR)

147 #
148 #   The following must be defined for all implementations:
149 #
150 #   MAPFILE:      ld mapfile for the build of kernel/unix.
151 #   MODSTUBS:     Module stubs source file.
152 #   GENASSYM_SRC: genassym.c
153 #
154 MAPFILE           = $(UTSBASE)/$(PLATFORM)/conf/Mapfile
155 MODSTUBS          = $(UTSBASE)/intel/ia32/ml/modstubs.s
156 GENASSYM_SRC      = $(UTSBASE)/$(PLATFORM)/ml/genassym.c
157 OFFSETS_SRC       = $(UTSBASE)/$(PLATFORM)/ml/offsets.in
158 PLATFORM_OFFSETS_32 = $(UTSBASE)/$(PLATFORM)/ml/mach_offsets.in
159 PLATFORM_OFFSETS_64 = $(UTSBASE)/intel/amd64/ml/mach_offsets.in
160 PLATFORM_OFFSETS_SRC = $(PLATFORM_OFFSETS_$(CLASS))
161 KDI_OFFSETS_SRC   = $(UTSBASE)/intel/kdi/kdi_offsets.in

163 #
164 #   Define the actual specific platforms
165 #
166 MACHINE_DEFS      = -D$(PLATFORM) -D_MACHDEP

168 #
169 #   Software workarounds for hardware "features"
170 #
172 include $(UTSBASE)/$(PLATFORM)/Makefile.workarounds

174 #
175 #   Debugging level
176 #
177 #   Special knowledge of which special debugging options effect which
178 #   file is used to optimize the build if these flags are changed.
179 #
180 #   XXX: The above could possibly be done for more flags and files, but
181 #   is left as an experiment to the interested reader. Be forewarned,
182 #   that excessive use could lead to maintenance difficulties.
183 #
184 DEBUG_DEFS_OBJ32  =
185 DEBUG_DEFS_DBG32  = -DDEBUG
186 DEBUG_DEFS_OBJ64  =
187 DEBUG_DEFS_DBG64  = -DDEBUG
188 DEBUG_DEFS        = $(DEBUG_DEFS_$(BUILD_TYPE))

190 DEBUG_COND_OBJ32  = $(POUND_SIGN)
26  DEBUG_COND_OBJ32 :sh = echo \\043

```

```

191 DEBUG_COND_DBG32 =
192 DEBUG_COND_OBJ64 = $(POUND_SIGN)
28  DEBUG_COND_OBJ64 :sh = echo \\043
193 DEBUG_COND_DBG64 =
194 IF_DEBUG_OBJ     = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

196 $(IF_DEBUG_OBJ)trap.o           := DEBUG_DEFS += -DTRAPDEBUG -DTRAPTRACE
197 $(IF_DEBUG_OBJ)syscall_asm.o    := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE
198 $(IF_DEBUG_OBJ)syscall_asm_amd64.o := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE
199 $(IF_DEBUG_OBJ)fast_trap_asm.o  := DEBUG_DEFS += -DTRAPTRACE
200 $(IF_DEBUG_OBJ)interrupt.o      := DEBUG_DEFS += -DTRAPTRACE
201 $(IF_DEBUG_OBJ)intr.o           := DEBUG_DEFS += -DTRAPTRACE
202 $(IF_DEBUG_OBJ)locore.o         := DEBUG_DEFS += -DTRAPTRACE
203 $(IF_DEBUG_OBJ)mp_startup.o     := DEBUG_DEFS += -DTRAPTRACE
204 $(IF_DEBUG_OBJ)machdep.o        := DEBUG_DEFS += -DTRAPTRACE
205 $(IF_DEBUG_OBJ)exception.o      := DEBUG_DEFS += -DTRAPTRACE
206 $(IF_DEBUG_OBJ)x_call.o         := DEBUG_DEFS += -DTRAPTRACE
207 $(IF_DEBUG_OBJ)mp_call.o        := DEBUG_DEFS += -DTRAPTRACE
208 $(IF_DEBUG_OBJ)cbe.o            := DEBUG_DEFS += -DTRAPTRACE

210 #
211 #   Collect the preprocessor definitions to be associated with *all*
212 #   files.
213 #
214 ALL_DEFS          = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
215                   $(OPTION_DEFS)
216 GENASSYM_DEFS     = $(MACHINE_DEFS) $(OPTION_DEFS) \
217                   -_gcc=-fno-eliminate-unused-debug-symbols \
218                   -_gcc=-fno-eliminate-unused-debug-types

220 #
221 # ----- TRANSITIONAL SECTION -----
222 #
224 #
225 #   Not everything which *should* be a module is a module yet. The
226 #   following is a list of such objects which are currently part of
227 #   the base kernel but should soon become kmods.
228 #
229 #   XXX: $(KMACCT_OBJS) is neither in the MT kernel nor was it ever
230 #   made into a module. If it is made MT safe before being made
231 #   into a module, it should be added to this list. It was in
232 #   this list pre ON-4.0.
233 #
234 #
235 MACH_NOT_YET_KMODS = $(AUTOCONF_OBJS)

237 #
238 # ----- END OF TRANSITIONAL SECTION -----
239 #
241 #
242 #   The kernels modules which are "implementation architecture"
243 #   specific for this machine are enumerated below. Note that most
244 #   of these modules must exist (in one form or another) for each
245 #   architecture.
246 #
247 #   Machine Specific Driver Modules (/kernel/drv)
248 #   DRV_KMODS are built both 32-bit and 64-bit
249 #   DRV_KMODS_32 are built only 32-bit
250 #   DRV_KMODS_64 are built only 64-bit
251 #
252 DRV_KMODS        += rootnpx
253 DRV_KMODS        += isa
254 DRV_KMODS        += pcplusmp
255 DRV_KMODS        += apix

```

```

256 DRV_KMODS      += cpc
257 DRV_KMODS      += pci
258 DRV_KMODS      += npe
259 DRV_KMODS      += pci-ide
260 DRV_KMODS      += xsvc
261 DRV_KMODS      += tzmon
262 DRV_KMODS      += acpi_drv
263 DRV_KMODS      += acpinex
264 DRV_KMODS      += amd_iommu
265 DRV_KMODS      += dr
266 DRV_KMODS      += ioat
267 DRV_KMODS      += fipec

269 DRV_KMODS      += cpudrv

272 #
273 # Platform Power Modules
274 #
275 DRV_KMODS      += ppm acpippm

277 #
278 #      CPU Modules
279 #
280 CPU_KMODS      += amd_opteron
281 CPU_KMODS      += generic_cpu
282 CPU_KMODS      += authenticamd
283 CPU_KMODS      += genuineintel

285 #
286 # Don't build some of these for OpenSolaris, since they will be
287 # replaced by binaries that are signed by Sun Release Engineering.
288 #
289 $(CLOSED_BUILD)CLOSED_CPU_KMODS += intel_nhmex

291 #
292 #      Exec Class Modules (/kernel/exec):
293 #
294 EXEC_KMODS      +=

296 #
297 #      Scheduling Class Modules (/kernel/sched):
298 #
299 SCHED_KMODS     +=

301 #
302 #      File System Modules (/kernel/fs):
303 #
304 FS_KMODS        +=

306 #
307 #      Streams Modules (/kernel/strmod):
308 #
309 STRMOD_KMODS    +=

311 #
312 #      'System' Modules (/kernel/sys):
313 #
314 SYS_KMODS       +=

316 #
317 #      'Misc' Modules (/kernel/misc):
318 #
319 MISC_KMODS      += gfx_private pcie
320 MISC_KMODS      += acpidev
321 MISC_KMODS      += drmmach_acpi

```

```

323 #
324 #      'Dacf' modules (/kernel/dacf)
325 #
326 DACF_KMODS     += consconfig_dacf

328 #
329 #      'Mach' Modules (/kernel/mach):
330 #
331 MACH_KMODS      += uppc

333 #
334 #      CPR Misc Module.
335 #
336 MISC_KMODS      += cpr

```

```

*****
8907 Fri Sep 13 11:16:20 2013
new/usr/src/uts/i86xpv/Makefile.i86xpv.shared
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
*****
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 # uts/i86xpv/Makefile.i86xpv.shared
24 #
25 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
26 # Use is subject to license terms.
27 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
28 #endif /* ! codereview */
29 #
30 #
31 #
32 # This makefile contains the common definitions for the i86xpv unix
33 # and all i86xpv implementation architecture dependent modules.
34 #
35 #
36 #
37 # Machine type (implementation architecture):
38 #
39 PLATFORM = i86xpv
40 #
41 #
42 # uname -m value
43 #
44 UNAME_M = i86pc
45 #
46 #
47 # Everybody needs to know how to build modstubs.o and to locate unix.o
48 #
49 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
50 GENLIB_DIR = $(UTSBASE)/intel/genunix
51 MODSTUBS_DIR = $(UNIX_DIR)
52 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
53 LINTS_DIR = $(OBJS_DIR)
54 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
55 GEN_LINT_LIB_DIR = $(UTSBASE)/intel/lint-libs/$(OBJS_DIR)
56 #
57 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
58 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so

```

```

60 SYM_MOD = $(OBJS_DIR)/unix.sym
61 #
62 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
63 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
64 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so
65 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
66 DBOOT_LINT_LIB = $(LINT_LIB_DIR)/llib-ldboot.ln
67 GEN_LINT_LIB = $(GEN_LINT_LIB_DIR)/llib-lgenunix.ln
68 #
69 LINT32_DIRS = $(LINT32_BUILDS:%=$(UTSBASE)/$(PLATFORM)/lint-libs/%)
70 LINT32_FILES = $(LINT32_DIRS:%=%/llib-l$(MODULE).ln)
71 #
72 #
73 # Include the makefiles which define build rule templates, the
74 # collection of files per module, and a few specific flags. Note
75 # that order is significant, just as with an include path. The
76 # first build rule template which matches the files name will be
77 # used. By including these in order from most machine dependent
78 # to most machine independent, we allow a machine dependent file
79 # to be used in preference over a machine independent version
80 # (Such as a machine specific optimization, which preserves the
81 # interfaces.)
82 #
83 include $(UTSTREE)/$(PLATFORM)/Makefile.files
84 include $(UTSTREE)/intel/Makefile.files
85 include $(UTSTREE)/common/Makefile.files
86 #
87 #
88 # Include machine independent rules. Note that this does not imply
89 # that the resulting module from rules in Makefile.uts is machine
90 # independent. Only that the build rules are machine independent.
91 #
92 include $(UTSBASE)/Makefile.uts
93 #
94 #
95 # Define supported builds
96 #
97 DEF_BUILDS = $(DEF_BUILDS64) $(DEF_BUILDS32)
98 ALL_BUILDS = $(ALL_BUILDS64) $(ALL_BUILDS32)
99 #
100 #
101 # x86 or amd64 inline templates
102 #
103 INLINES_32 = $(UTSBASE)/intel/ia32/ml/ia32.il \
104 $(UTSBASE)/$(PLATFORM)/ml/ia32.il
105 INLINES_64 = $(UTSBASE)/intel/amd64/ml/amd64.il \
106 $(UTSBASE)/$(PLATFORM)/ml/amd64.il
107 INLINES += $(INLINES_$(CLASS))
108 #
109 #
110 # kernel-specific optimizations; override default in Makefile.master
111 #
112 #
113 CFLAGS_XARCH_32 = $(i386_CFLAGS)
114 CFLAGS_XARCH_64 = $(amd64_CFLAGS)
115 CFLAGS_XARCH = $(CFLAGS_XARCH_$(CLASS))
116 #
117 COPTFLAG_32 = $(COPTFLAG)
118 COPTFLAG_64 = $(COPTFLAG64)
119 COPTIMIZE = $(COPTFLAG_$(CLASS))
120 #
121 CFLAGS = $(CFLAGS_XARCH)
122 CFLAGS += $(COPTIMIZE)
123 CFLAGS += $(INLINES) -D_ASM_INLINES
124 CFLAGS += $(CCMODE)
125 CFLAGS += $(SPACEFLAG)

```

```

126 CFLAGS          += $(CCUNBOUND)
127 CFLAGS          += $(CFLAGS_uts)

129 ASFLAGS_XARCH_32 = $(i386_ASFLAGS)
130 ASFLAGS_XARCH_64 = $(amd64_ASFLAGS)
131 ASFLAGS_XARCH    = $(ASFLAGS_XARCH_$(CLASS))

133 ASFLAGS          += $(ASFLAGS_XARCH)

135 AS_INC_PATH     += -I$(DSF_DIR)/$(OBJS_DIR)

137 #
138 #       The following must be defined for all implementations:
139 #
140 #       MAPFILE:      ld mapfile for the build of kernel/unix.
141 #       MODSTUBS:    Module stubs source file.
142 #       GENASSYM_SRC: genassym.c

144 MAPFILE          = $(UTSBASE)/$(PLATFORM)/conf/Mapfile
145 MODSTUBS         = $(UTSBASE)/intel/ia32/ml/modstubs.s
146 GENASSYM_SRC     = $(UTSBASE)/i86pc/ml/genassym.c
147 OFFSETS_SRC     = $(UTSBASE)/i86pc/ml/offsets.in

149 #PLATFORM_OFFSETS_32 = $(UTSBASE)/$(PLATFORM)/ml/mach_offsets.in
150 PLATFORM_OFFSETS_32 = $(UTSBASE)/i86pc/ml/mach_offsets.in
151 PLATFORM_OFFSETS_64 = $(UTSBASE)/intel/amd64/ml/mach_offsets.in
152 PLATFORM_OFFSETS_SRC = $(PLATFORM_OFFSETS_$(CLASS))
153 KDI_OFFSETS_SRC    = $(UTSBASE)/intel/kdi/kdi_offsets.in

155 #
156 #       Define the actual specific platforms
157 #
158 MACHINE_DEFS     = -D_$(PLATFORM) -D_xpv -D_MACHDEP

160 #
161 #       Software workarounds for hardware "features"
162 #

164 include $(UTSBASE)/i86pc/Makefile.workarounds

166 #
167 #       Debugging level
168 #
169 #       Special knowledge of which special debugging options effect which
170 #       file is used to optimize the build if these flags are changed.
171 #
172 #       XXX: The above could possibly be done for more flags and files, but
173 #       is left as an experiment to the interested reader. Be forewarned,
174 #       that excessive use could lead to maintenance difficulties.
175 #
176 DEBUG_DEFS_OBJ32 =
177 DEBUG_DEFS_DBG32 = -DDEBUG
178 DEBUG_DEFS_OBJ64 =
179 DEBUG_DEFS_DBG64 = -DDEBUG
180 DEBUG_DEFS       = $(DEBUG_DEFS_$(BUILD_TYPE))

182 DEBUG_COND_OBJ32 = $(POUND_SIGN)
27  DEBUG_COND_OBJ32 :sh = echo \\043
183 DEBUG_COND_DBG32 =
184 DEBUG_COND_OBJ64 = $(POUND_SIGN)
29  DEBUG_COND_OBJ64 :sh = echo \\043
185 DEBUG_COND_DBG64 =
186 IF_DEBUG_OBJ     = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

188 $(IF_DEBUG_OBJ)trap.o      := DEBUG_DEFS += -DTRAPDEBUG -DTRAPTRACE
189 $(IF_DEBUG_OBJ)syscall_asm.o := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE

```

```

190 $(IF_DEBUG_OBJ)syscall_asm_amd64.o := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE
191 $(IF_DEBUG_OBJ)fast_trap_asm.o    := DEBUG_DEFS += -DTRAPTRACE
192 $(IF_DEBUG_OBJ)interrupt.o        := DEBUG_DEFS += -DTRAPTRACE
193 $(IF_DEBUG_OBJ)intr.o              := DEBUG_DEFS += -DTRAPTRACE
194 $(IF_DEBUG_OBJ)locore.o            := DEBUG_DEFS += -DTRAPTRACE
195 $(IF_DEBUG_OBJ)mp_startup.o        := DEBUG_DEFS += -DTRAPTRACE
196 $(IF_DEBUG_OBJ)machdep.o           := DEBUG_DEFS += -DTRAPTRACE
197 $(IF_DEBUG_OBJ)exception.o         := DEBUG_DEFS += -DTRAPTRACE
198 $(IF_DEBUG_OBJ)x_call.o            := DEBUG_DEFS += -DTRAPTRACE
199 $(IF_DEBUG_OBJ)mp_call.o           := DEBUG_DEFS += -DTRAPTRACE
200 $(IF_DEBUG_OBJ)cbe.o                := DEBUG_DEFS += -DTRAPTRACE
201 $(IF_DEBUG_OBJ)hyperevent.o         := DEBUG_DEFS += -DTRAPTRACE
202 $(IF_DEBUG_OBJ)evtchn.o             := DEBUG_DEFS += -DTRAPTRACE

204 #
205 #       Collect the preprocessor definitions to be associated with *all*
206 #       files.
207 #
208 ALL_DEFS         = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
209                   $(OPTION_DEFS)
210 GENASSYM_DEFS    = $(MACHINE_DEFS) $(OPTION_DEFS) \
211                   -_gcc=-fno-eliminate-unused-debug-symbols \
212                   -_gcc=-fno-eliminate-unused-debug-types

214 #
215 # ----- TRANSITIONAL SECTION -----
216 #

218 #
219 #       Not everything which *should* be a module is a module yet. The
220 #       following is a list of such objects which are currently part of
221 #       the base kernel but should soon become kmods.
222 #
223 #       XXX: $(KMACCT_OBJS) is neither in the MT kernel nor was it ever
224 #       made into a module. If it is made MT safe before being made
225 #       into a module, it should be added to this list. It was in
226 #       this list pre ON-4.0.
227 #
228 #
229 MACH_NOT_YET_KMODS = $(AUTOCONF_OBJS)

231 #
232 # ----- END OF TRANSITIONAL SECTION -----
233 #

235 #
236 #       The kernels modules which are "implementation architecture"
237 #       specific for this machine are enumerated below. Note that most
238 #       of these modules must exist (in one form or another) for each
239 #       architecture.
240 #
241 #       Machine Specific Driver Modules (/kernel/drv):
242 #       DRV_KMODS are built both 32-bit and 64-bit
243 #       DRV_KMODS_32 are built only 32-bit
244 #       DRV_KMODS_64 are built only 64-bit
245 #

247 DRV_KMODS      += rootnex
248 DRV_KMODS      += ioat
249 DRV_KMODS      += isa
250 DRV_KMODS      += pci
251 DRV_KMODS      += pit_beep
252 DRV_KMODS      += npe
253 DRV_KMODS      += pci-ide
254 DRV_KMODS      += xsvc
255 DRV_KMODS      += xenbus

```

```
256 DRV_KMODS      += xencons
257 DRV_KMODS      += xpvd
258 DRV_KMODS      += xnbe
259 DRV_KMODS      += xnbo
260 DRV_KMODS      += xnbu
261 DRV_KMODS      += xnf
262 DRV_KMODS      += xdb
263 DRV_KMODS      += xdf
264 DRV_KMODS      += privcmd
265 DRV_KMODS      += domcaps
266 DRV_KMODS      += evtchn
267 DRV_KMODS      += balloon
268 DRV_KMODS      += xpvtpap
269 DRV_KMODS      += xdt

271 #
272 #      CPU Modules
273 #
274 CPU_KMODS        += generic_cpu
275 CPU_KMODS        += amd_opteron
276 CPU_KMODS        += genuineintel
277 CPU_KMODS        += authenticamd

279 #
280 #      Exec Class Modules (/kernel/exec):
281 #
282 EXEC_KMODS       +=

284 #
285 #      Scheduling Class Modules (/kernel/sched):
286 #
287 SCHED_KMODS     +=

289 #
290 #      File System Modules (/kernel/fs):
291 #
292 FS_KMODS        +=

294 #
295 #      Streams Modules (/kernel/strmod):
296 #
297 STRMOD_KMODS    +=

299 #
300 #      'System' Modules (/kernel/sys):
301 #
302 SYS_KMODS       +=

304 #
305 #      'Misc' Modules (/kernel/misc):
306 #
307 MISC_KMODS      += xpv_autoconfig gfx_private xnb

309 #      'Dacf' modules (/kernel/dacf)
310 #
311 DACF_KMODS      += consconfig_dacf

313 #
314 #      'Mach' Modules (/kernel/mach):
315 #
316 MACH_KMODS      += xpv_psm xpv_uppc

318 #
319 #      'TOD' modules (/platform/.../kernel/tod):
320 #
321 TOD_KMODS       += xpvtod
```

```

*****
16977 Fri Sep 13 11:16:20 2013
new/usr/src/uts/intel/Makefile.intel.shared
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
*****
1 # CDDL HEADER START
2 #
3 # The contents of this file are subject to the terms of the
4 # Common Development and Distribution License (the "License").
5 # You may not use this file except in compliance with the License.
6 #
7 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
8 # or http://www.opensolaris.org/os/licensing.
9 # See the License for the specific language governing permissions
10 # and limitations under the License.
11 #
12 # When distributing Covered Code, include this CDDL HEADER in each
13 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
14 # If applicable, add the following below this CDDL HEADER, with the
15 # fields enclosed by brackets "[]" replaced with your own identifying
16 # information: Portions Copyright [yyyy] [name of copyright owner]
17 #
18 # CDDL HEADER END
19 #
20 #
21 # Copyright (c) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
22 # Copyright (c) 2012 Nexenta Systems, Inc. All rights reserved.
23 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
24 #endif /* ! codereview */
25 #
26 #
27 # This makefile contains the common definitions for all intel
28 # implementation architecture independent modules.
29 #
30 #
31 #
32 # Machine type (implementation architecture):
33 #
34 PLATFORM = i86pc
35 #
36 #
37 # Everybody needs to know how to build modstubs.o and to locate unix.o.
38 # Note that unix.o must currently be selected from among the possible
39 # "implementation architectures". Note further, that unix.o is only
40 # used as an optional error check for undefines so (theoretically)
41 # any "implementation architectures" could be used. We choose i86pc
42 # because it is the reference port.
43 #
44 UNIX_DIR = $(UTSBASE)/i86pc/unix
45 GENLIB_DIR = $(UTSBASE)/intel/genunix
46 IPDRV_DIR = $(UTSBASE)/intel/ip
47 MODSTUBS_DIR = $(UNIX_DIR)
48 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
49 LINTS_DIR = $(OBJSDIR)
50 LINT_LIB_DIR = $(UTSBASE)/intel/lint-libs/$(OBJSDIR)
51 #
52 UNIX_O = $(UNIX_DIR)/$(OBJSDIR)/unix.o
53 GENLIB = $(GENLIB_DIR)/$(OBJSDIR)/libgenunix.so
54 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJSDIR)/modstubs.o
55 LINT_LIB = $(UTSBASE)/i86pc/lint-libs/$(OBJSDIR)/llib-lunix.ln
56 GEN_LINT_LIB = $(UTSBASE)/intel/lint-libs/$(OBJSDIR)/llib-lgenunix.ln
57 #
58 #
59 # Include the makefiles which define build rule templates, the

```

```

60 # collection of files per module, and a few specific flags. Note
61 # that order is significant, just as with an include path. The
62 # first build rule template which matches the file name will be
63 # used. By including these in order from most machine dependent
64 # to most machine independent, we allow a machine dependent file
65 # to be used in preference over a machine independent version
66 # (Such as a machine specific optimization, which preserves the
67 # interfaces.)
68 #
69 include $(UTSTREE)/intel/Makefile.files
70 include $(UTSTREE)/common/Makefile.files
71 #
72 #
73 # ----- TRANSITIONAL SECTION -----
74 #
75 #
76 #
77 # Not everything which *should* be a module is a module yet. The
78 # following is a list of such objects which are currently part of
79 # genunix but which might someday become kmods. This must be
80 # defined before we include Makefile.uts, or else genunix's build
81 # won't be as parallel as we might like.
82 #
83 NOT_YET_KMODS = $(OLDPTY_OBJS) $(PTY_OBJS) $(VCONS_CONF_OBJS) $(MOD_OBJS)
84 #
85 #
86 # ----- END OF TRANSITIONAL SECTION -----
87 #
88 #
89 # Include machine independent rules. Note that this does not imply
90 # that the resulting module from rules in Makefile.uts is machine
91 # independent. Only that the build rules are machine independent.
92 #
93 include $(UTSBASE)/Makefile.uts
94 #
95 # The following must be defined for all implementations:
96 #
97 MODSTUBS = $(UTSBASE)/intel/ia32/ml/modstubs.s
98 #
99 #
100 # Define supported builds
101 #
102 DEF_BUILDS = $(DEF_BUILDS64) $(DEF_BUILDS32)
103 ALL_BUILDS = $(ALL_BUILDS64) $(ALL_BUILDS32)
104 #
105 #
106 # x86 or amd64 inline templates
107 #
108 INLINES_32 = $(UTSBASE)/intel/ia32/ml/ia32.il
109 INLINES_64 = $(UTSBASE)/intel/amd64/ml/amd64.il
110 INLINES += $(INLINES_$(CLASS))
111 #
112 #
113 # kernel-specific optimizations; override default in Makefile.master
114 #
115 #
116 CFLAGS_XARCH_32 = $(i386_CFLAGS)
117 CFLAGS_XARCH_64 = $(amd64_CFLAGS)
118 CFLAGS_XARCH = $(CFLAGS_XARCH_$(CLASS))
119 #
120 COPTFLAG_32 = $(COPTFLAG)
121 COPTFLAG_64 = $(COPTFLAG64)
122 COPTIMIZE = $(COPTFLAG_$(CLASS))
123 #
124 CFLAGS = $(CFLAGS_XARCH)
125 CFLAGS += $(COPTIMIZE)

```

```

126 CFLAGS          += $(INLINES) -D_ASM_INLINES
127 CFLAGS          += $(CCMODE)
128 CFLAGS          += $(SPACEFLAG)
129 CFLAGS          += $(CCUNBOUND)
130 CFLAGS          += $(CFLAGS_uts)
131 CFLAGS          += -xstrconst

133 ASFLAGS_XARCH_32 = $(i386_ASFLAGS)
134 ASFLAGS_XARCH_64 = $(amd64_ASFLAGS)
135 ASFLAGS_XARCH    = $(ASFLAGS_XARCH_$(CLASS))

137 ASFLAGS          += $(ASFLAGS_XARCH)

139 #
140 #       Define the base directory for installation.
141 #
142 BASE_INS_DIR     = $(ROOT)

144 #
145 #       Debugging level
146 #
147 #       Special knowledge of which special debugging options affect which
148 #       file is used to optimize the build if these flags are changed.
149 #
150 DEBUG_DEFS_OBJ32 =
151 DEBUG_DEFS_DBG32 = -DDEBUG
152 DEBUG_DEFS_OBJ64 =
153 DEBUG_DEFS_DBG64 = -DDEBUG
154 DEBUG_DEFS       = $(DEBUG_DEFS_$(BUILD_TYPE))

156 DEBUG_COND_OBJ32 = $(POUND_SIGN)
23  DEBUG_COND_OBJ32 :sh = echo \\043
157 DEBUG_COND_DBG32 =
158 DEBUG_COND_OBJ64 = $(POUND_SIGN)
25  DEBUG_COND_OBJ64 :sh = echo \\043
159 DEBUG_COND_DBG64 =
160 IF_DEBUG_OBJ     = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

162 $(IF_DEBUG_OBJ)syscall.o      :=      DEBUG_DEFS      += -DSYSCALLTRACE
163 $(IF_DEBUG_OBJ)clock.o       :=      DEBUG_DEFS      += -DKSLICE=1

165 #
166 #       Collect the preprocessor definitions to be associated with *all*
167 #       files.
168 #
169 ALL_DEFS         = $(DEBUG_DEFS) $(OPTION_DEFS)

171 #
172 #       The kernels modules which are "implementation architecture"
173 #       specific for this machine are enumerated below. Note that most
174 #       of these modules must exist (in one form or another) for each
175 #       architecture.
176 #
177 #       Common Drivers (usually pseudo drivers) (/kernel/drv)
178 #       DRV_KMODS are built both 32-bit and 64-bit
179 #       DRV_KMODS_32 are built only 32-bit
180 #       DRV_KMODS_64 are built only 64-bit
181 #
182 DRV_KMODS        += aac
183 DRV_KMODS        += aggr
184 DRV_KMODS        += ahci
185 DRV_KMODS        += amd64_gart
186 DRV_KMODS        += amr
187 DRV_KMODS        += apgart
188 DRV_KMODS        += srn
189 DRV_KMODS        += agptarget

```

```

190 DRV_KMODS        += arn
191 DRV_KMODS        += arp
192 DRV_KMODS        += asy
193 DRV_KMODS        += ata
194 DRV_KMODS        += ath
195 DRV_KMODS        += atu
196 DRV_KMODS        += audio
197 DRV_KMODS        += audio1575
198 DRV_KMODS        += audio810
199 DRV_KMODS        += audiocmi
200 DRV_KMODS        += audiocmihd
201 DRV_KMODS        += audioemul0k
202 DRV_KMODS        += audioens
203 DRV_KMODS        += audiohd
204 DRV_KMODS        += audioixp
205 DRV_KMODS        += audiols
206 DRV_KMODS        += audiopl6x
207 DRV_KMODS        += audiopci
208 DRV_KMODS        += audiosolo
209 DRV_KMODS        += audiotst
210 DRV_KMODS        += audiovial823x
211 DRV_KMODS_32     += audiovial97
212 DRV_KMODS        += bl
213 DRV_KMODS        += blkdev
214 DRV_KMODS        += bge
215 DRV_KMODS        += bofi
216 DRV_KMODS        += bpf
217 DRV_KMODS        += bridge
218 DRV_KMODS        += bscbus
219 DRV_KMODS        += bscv
220 DRV_KMODS        += chxge
221 DRV_KMODS        += cxgbe
222 DRV_KMODS        += ntxn
223 DRV_KMODS        += myri10ge
224 DRV_KMODS        += clone
225 DRV_KMODS        += cmdk
226 DRV_KMODS        += cn
227 DRV_KMODS        += conskbd
228 DRV_KMODS        += consms
229 DRV_KMODS        += cpuid
230 DRV_KMODS        += cpunex
231 DRV_KMODS        += crypto
232 DRV_KMODS        += cryptoadm
233 DRV_KMODS        += dca
234 DRV_KMODS        += devinfo
235 DRV_KMODS        += dld
236 DRV_KMODS        += dlpistub
237 DRV_KMODS_32     += dnet
238 DRV_KMODS        += dump
239 DRV_KMODS        += ecpp
240 DRV_KMODS        += emlxs
241 DRV_KMODS        += fd
242 DRV_KMODS        += fdc
243 DRV_KMODS        += fm
244 DRV_KMODS        += fssnap
245 DRV_KMODS        += hxge
246 DRV_KMODS        += i8042
247 DRV_KMODS        += i915
248 DRV_KMODS        += icmp
249 DRV_KMODS        += icmp6
250 DRV_KMODS        += intel_nb5000
251 DRV_KMODS        += intel_nhm
252 DRV_KMODS        += ip
253 DRV_KMODS        += ip6
254 DRV_KMODS        += ipf
255 DRV_KMODS        += ipnet

```



```

256 DRV_KMODS      += ippctl
257 DRV_KMODS      += ipsecah
258 DRV_KMODS      += ipsecesp
259 DRV_KMODS      += ipw
260 DRV_KMODS      += iwh
261 DRV_KMODS      += iwi
262 DRV_KMODS      += iwk
263 DRV_KMODS      += iwp
264 DRV_KMODS      += iwscn
265 DRV_KMODS      += kb8042
266 DRV_KMODS      += keysock
267 DRV_KMODS      += kssl
268 DRV_KMODS      += kstat
269 DRV_KMODS      += ksyms
270 DRV_KMODS      += kmdb
271 DRV_KMODS      += llcl
272 DRV_KMODS      += lofi
273 DRV_KMODS      += log
274 DRV_KMODS      += logindmux
275 DRV_KMODS      += mega_sas
276 DRV_KMODS      += mc-amd
277 DRV_KMODS      += mm
278 DRV_KMODS      += mouse8042
279 DRV_KMODS      += mpt_sas
280 DRV_KMODS      += mr_sas
281 DRV_KMODS      += mwl
282 DRV_KMODS      += nca
283 DRV_KMODS      += nsmb
284 DRV_KMODS      += nulldriver
285 DRV_KMODS      += nv_sata
286 DRV_KMODS      += nxge
287 DRV_KMODS      += oce
288 DRV_KMODS      += openeep
289 DRV_KMODS      += pci_pci
290 DRV_KMODS      += pcic
291 DRV_KMODS      += pcieb
292 DRV_KMODS      += physmem
293 DRV_KMODS      += pcan
294 DRV_KMODS      += pcwl
295 DRV_KMODS      += pit_bEEP
296 DRV_KMODS      += pm
297 DRV_KMODS      += poll
298 DRV_KMODS      += pool
299 DRV_KMODS      += power
300 DRV_KMODS      += pseudo
301 DRV_KMODS      += ptc
302 DRV_KMODS      += ptm
303 DRV_KMODS      += pts
304 DRV_KMODS      += ptsl
305 DRV_KMODS      += qlge
306 DRV_KMODS      += radeon
307 DRV_KMODS      += ral
308 DRV_KMODS      += ramdisk
309 DRV_KMODS      += random
310 DRV_KMODS      += rds
311 DRV_KMODS      += rdsv3
312 DRV_KMODS      += rpcib
313 DRV_KMODS      += rsm
314 DRV_KMODS      += rts
315 DRV_KMODS      += rtw
316 DRV_KMODS      += rum
317 DRV_KMODS      += rwd
318 DRV_KMODS      += rwn
319 DRV_KMODS      += sad
320 DRV_KMODS      += sd
321 DRV_KMODS      += sdhost

```

```

322 DRV_KMODS      += sgen
323 DRV_KMODS      += si3124
324 DRV_KMODS      += smbios
325 DRV_KMODS      += softmac
326 DRV_KMODS      += spdssock
327 DRV_KMODS      += smbsrv
328 DRV_KMODS      += smp
329 DRV_KMODS      += spps
330 DRV_KMODS      += sppptun
331 DRV_KMODS      += srpt
332 DRV_KMODS      += st
333 DRV_KMODS      += sy
334 DRV_KMODS      += sysevent
335 DRV_KMODS      += sysmsg
336 DRV_KMODS      += tcp
337 DRV_KMODS      += tcp6
338 DRV_KMODS      += tl
339 DRV_KMODS      += tnf
340 DRV_KMODS      += tpm
341 DRV_KMODS      += trill
342 DRV_KMODS      += udp
343 DRV_KMODS      += udp6
344 DRV_KMODS      += ucode
345 DRV_KMODS      += ural
346 DRV_KMODS      += uath
347 DRV_KMODS      += urtw
348 DRV_KMODS      += vgatext
349 DRV_KMODS      += heci
350 DRV_KMODS      += vnic
351 DRV_KMODS      += vscan
352 DRV_KMODS      += wc
353 DRV_KMODS      += winlock
354 DRV_KMODS      += wpi
355 DRV_KMODS      += xge
356 DRV_KMODS      += yge
357 DRV_KMODS      += zcons
358 DRV_KMODS      += zyd
359 DRV_KMODS      += simmet
360 DRV_KMODS      += stmf
361 DRV_KMODS      += stmf_sbd
362 DRV_KMODS      += fct
363 DRV_KMODS      += fcoe
364 DRV_KMODS      += fcoet
365 DRV_KMODS      += fcoei
366 DRV_KMODS      += qlt
367 DRV_KMODS      += iscsit
368 DRV_KMODS      += pppt
369 DRV_KMODS      += ncall nsctl sdbc nskern sv
370 DRV_KMODS      += ii rdc rdcsrv rdcstub
371 DRV_KMODS      += iptun

373 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += bmc
374 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += glm
375 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += intel_nhmex
376 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += cpqary3
377 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += marvell88sx
378 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += bcm_sata
379 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += memtest
380 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += mpt
381 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += atiatom
382 $(CLOSED_BUILD)CLOSED_DRV_KMODS      += acpi_toshiba

384 #
385 # Common code drivers
386 #

```

```

388 DRV_KMODS      += afe
389 DRV_KMODS      += atge
390 DRV_KMODS      += bfe
391 DRV_KMODS      += dmfe
392 DRV_KMODS      += e1000g
393 DRV_KMODS      += efe
394 DRV_KMODS      += elxl
395 DRV_KMODS      += hme
396 DRV_KMODS      += mxfe
397 DRV_KMODS      += nge
398 DRV_KMODS      += pcn
399 DRV_KMODS      += rge
400 DRV_KMODS      += rtls
401 DRV_KMODS      += sfe
402 DRV_KMODS      += amd811ls
403 DRV_KMODS      += igb
404 DRV_KMODS      += ipmi
405 DRV_KMODS      += iprb
406 DRV_KMODS      += ixgbe
407 DRV_KMODS      += vr
408 $(CLOSED_BUILD)CLOSED_DRV_KMODS += ixgb

410 #
411 # Virtio drivers
412 #

414 # Virtio core
415 DRV_KMODS      += virtio

417 # Virtio block driver
418 DRV_KMODS      += vioblk

420 #
421 #      DTrace and DTrace Providers
422 #
423 DRV_KMODS      += dtrace
424 DRV_KMODS      += fbt
425 DRV_KMODS      += lockstat
426 DRV_KMODS      += profile
427 DRV_KMODS      += sdt
428 DRV_KMODS      += systrace
429 DRV_KMODS      += fasttrap
430 DRV_KMODS      += dcpc

432 #
433 #      I/O framework test drivers
434 #
435 DRV_KMODS      += pshot
436 DRV_KMODS      += gen_drv
437 DRV_KMODS      += tvhci tphci tclient
438 DRV_KMODS      += emul64

440 #
441 #      Machine Specific Driver Modules (/kernel/drv):
442 #
443 DRV_KMODS      += options
444 DRV_KMODS      += scsi_vhci
445 DRV_KMODS      += pmcs
446 DRV_KMODS      += pmcs8001fw
447 DRV_KMODS      += arcmsr
448 DRV_KMODS      += fcp
449 DRV_KMODS      += fcip
450 DRV_KMODS      += fcsms
451 DRV_KMODS      += fp
452 DRV_KMODS      += qlc
453 DRV_KMODS      += iscsi

```

```

455 #
456 #      PCMCIA specific module(s)
457 #
458 DRV_KMODS      += pcs
459 DRV_KMODS      += pcata
460 MISC_KMODS     += cardbus
461 $(CLOSED_BUILD)CLOSED_DRV_KMODS += pcser

463 #
464 #      SCSI Enclosure Services driver
465 #
466 DRV_KMODS      += ses

468 #
469 #      USB specific modules
470 #
471 DRV_KMODS      += hid
472 DRV_KMODS      += hwarc hwahc
473 DRV_KMODS      += hubd
474 DRV_KMODS      += uhci
475 DRV_KMODS      += ehci
476 DRV_KMODS      += ohci
477 DRV_KMODS      += usb_mid
478 DRV_KMODS      += usb_ia
479 DRV_KMODS      += scsa2usb
480 DRV_KMODS      += usbprn
481 DRV_KMODS      += ugen
482 DRV_KMODS      += usbser
483 DRV_KMODS      += usbsacm
484 DRV_KMODS      += usbsksp
485 DRV_KMODS      += usbsprl
486 DRV_KMODS      += usb_ac
487 DRV_KMODS      += usb_as
488 DRV_KMODS      += usbskel
489 DRV_KMODS      += usbvc
490 DRV_KMODS      += usbftdi
491 DRV_KMODS      += wusb_df
492 DRV_KMODS      += wusb_ca
493 DRV_KMODS      += usbecm

495 $(CLOSED_BUILD)CLOSED_DRV_KMODS += usbser_edge

497 #
498 #      1394 modules
499 #
500 MISC_KMODS     += s1394 sbp2
501 DRV_KMODS      += hcil394 scsal394
502 DRV_KMODS      += avl394
503 DRV_KMODS      += dcaml394

505 #
506 #      InfiniBand pseudo drivers
507 #
508 DRV_KMODS      += ib ibp eibnx eoib rdsib sdp iser daplt hermon tavor sol_ucma
509 DRV_KMODS      += sol_umad

511 #
512 #      LVM modules
513 #
514 DRV_KMODS      += md
515 MISC_KMODS     += md_stripe md_hotspares md_mirror md_raid md_trans md_notify
516 MISC_KMODS     += md_sp

518 #
519 #      Brand modules

```

```

520 #
521 BRAND_KMODS      += snl_brand s10_brand

523 #
524 #       Exec Class Modules (/kernel/exec):
525 #
526 EXEC_KMODS       += elfexec intpexec shbinexec javaexec

528 #
529 #       Scheduling Class Modules (/kernel/sched):
530 #
531 SCHED_KMODS      += IA RT TS RT_DPTBL TS_DPTBL FSS FX FX_DPTBL SDC

533 #
534 #       File System Modules (/kernel/fs):
535 #
536 FS_KMODS         += autofs cachefs ctfs dcfs dev devfs fdfs fifofs hsfs lofs
537 FS_KMODS         += mntfs namefs nfs objfs zfs zut
538 FS_KMODS         += pcfs procfs sockfs specfs tmpfs udfs ufs sharefs
539 FS_KMODS         += smbfs

541 #
542 #       Streams Modules (/kernel/strmod):
543 #
544 STRMOD_KMODS     += bufmod conlld dedump ldterm pkt pmod pipemod
545 STRMOD_KMODS     += ptem redirmod rpcmod rlmmod telmod timod
546 STRMOD_KMODS     += sppsasyn sppscomp
547 STRMOD_KMODS     += tirdwr ttcompat
548 STRMOD_KMODS     += usbkbm
549 STRMOD_KMODS     += usbms
550 STRMOD_KMODS     += usbwcm
551 STRMOD_KMODS     += usb_ah
552 STRMOD_KMODS     += drcompat
553 STRMOD_KMODS     += cryptmod
554 STRMOD_KMODS     += vuid2ps2
555 STRMOD_KMODS     += vuid3ps2
556 STRMOD_KMODS     += vuidm3p
557 STRMOD_KMODS     += vuidm4p
558 STRMOD_KMODS     += vuidm5p

560 #
561 #       'System' Modules (/kernel/sys):
562 #
563 SYS_KMODS        += c2audit
564 SYS_KMODS        += doorfs
565 SYS_KMODS        += exacctsys
566 SYS_KMODS        += inst_sync
567 SYS_KMODS        += kaio
568 SYS_KMODS        += msgsys
569 SYS_KMODS        += pipe
570 SYS_KMODS        += portfs
571 SYS_KMODS        += pset
572 SYS_KMODS        += semsys
573 SYS_KMODS        += shmsys
574 SYS_KMODS        += sysacct
575 SYS_KMODS        += acctctl

577 #
578 #       'Misc' Modules (/kernel/misc)
579 #       MISC_KMODS are built both 32-bit and 64-bit
580 #       MISC_KMODS_32 are built only 32-bit
581 #       MISC_KMODS_64 are built only 64-bit
582 #
583 MISC_KMODS       += ac97
584 MISC_KMODS       += acpica
585 MISC_KMODS       += agpmaster

```

```

586 MISC_KMODS      += bignum
587 MISC_KMODS      += bootdev
588 MISC_KMODS      += busra
589 MISC_KMODS      += cmlb
590 MISC_KMODS      += consconfig
591 MISC_KMODS      += ctf
592 MISC_KMODS      += dadk
593 MISC_KMODS      += dcopy
594 MISC_KMODS      += dls
595 MISC_KMODS      += drm
596 MISC_KMODS      += fssnap_if
597 MISC_KMODS      += gda
598 MISC_KMODS      += gld
599 MISC_KMODS      += hidparser
600 MISC_KMODS      += hook
601 MISC_KMODS      += hpcsvc
602 MISC_KMODS      += ibcm
603 MISC_KMODS      += ibdm
604 MISC_KMODS      += ibdma
605 MISC_KMODS      += ibmf
606 MISC_KMODS      += ibtl
607 MISC_KMODS      += idm
608 MISC_KMODS      += idmap
609 MISC_KMODS      += iomulib
610 MISC_KMODS      += ipc
611 MISC_KMODS      += kbtrans
612 MISC_KMODS      += kcf
613 MISC_KMODS      += kgssapi
614 MISC_KMODS      += kmecch_dummy
615 MISC_KMODS      += kmecch_krb5
616 MISC_KMODS      += ksocket
617 MISC_KMODS      += mac
618 MISC_KMODS      += mii
619 MISC_KMODS      += mwlfw
620 MISC_KMODS      += net80211
621 MISC_KMODS      += nfs_dlboot
622 MISC_KMODS      += nfssrv
623 MISC_KMODS      += neti
624 MISC_KMODS      += pci_autoconfig
625 MISC_KMODS      += pcicfg
626 MISC_KMODS      += pcihp
627 MISC_KMODS      += pcmcia
628 MISC_KMODS      += rpcsec
629 MISC_KMODS      += rpcsec_gss
630 MISC_KMODS      += rsmops
631 MISC_KMODS      += sata
632 MISC_KMODS      += scsi
633 MISC_KMODS      += sda
634 MISC_KMODS      += sol_ofs
635 MISC_KMODS      += spuni
636 MISC_KMODS      += strategy
637 MISC_KMODS      += strplumb
638 MISC_KMODS      += tem
639 MISC_KMODS      += tlimod
640 MISC_KMODS      += usba usba10 usbs49_fw
641 MISC_KMODS      += scsi_vhci_f_sym_hds
642 MISC_KMODS      += scsi_vhci_f_sym
643 MISC_KMODS      += scsi_vhci_f_tpgs
644 MISC_KMODS      += scsi_vhci_f_asym_sun
645 MISC_KMODS      += scsi_vhci_f_tape
646 MISC_KMODS      += scsi_vhci_f_tpgs_tape
647 MISC_KMODS      += fctl
648 MISC_KMODS      += emlxs_fw
649 MISC_KMODS      += qlc_fw_2200
650 MISC_KMODS      += qlc_fw_2300
651 MISC_KMODS      += qlc_fw_2400

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```

652 MISC_KMODS      += qlc_fw_2500
653 MISC_KMODS      += qlc_fw_6322
654 MISC_KMODS      += qlc_fw_8100
655 MISC_KMODS      += hwal480_fw
656 MISC_KMODS      += uathfw
657 MISC_KMODS      += uwba

659 MISC_KMODS      += klmmod klmops

661 $(CLOSED_BUILD)CLOSED_MISC_KMODS      += scsi_vhci_f_asym_lsi
662 $(CLOSED_BUILD)CLOSED_MISC_KMODS      += scsi_vhci_f_asym_emc
663 $(CLOSED_BUILD)CLOSED_MISC_KMODS      += scsi_vhci_f_sym_emc

665 #
666 #       Software Cryptographic Providers (/kernel/crypto):
667 #
668 CRYPTO_KMODS     += aes
669 CRYPTO_KMODS     += arcfour
670 CRYPTO_KMODS     += blowfish
671 CRYPTO_KMODS     += des
672 CRYPTO_KMODS     += ecc
673 CRYPTO_KMODS     += md4
674 CRYPTO_KMODS     += md5
675 CRYPTO_KMODS     += rsa
676 CRYPTO_KMODS     += sha1
677 CRYPTO_KMODS     += sha2
678 CRYPTO_KMODS     += swrand

680 #
681 #       IP Policy Modules (/kernel/ipp)
682 #
683 IPP_KMODS         += dlcosmk
684 IPP_KMODS         += flowacct
685 IPP_KMODS         += ipgpc
686 IPP_KMODS         += dscpmk
687 IPP_KMODS         += tokenmt
688 IPP_KMODS         += tswtclmt

690 #
691 #       generic-unix module (/kernel/genunix):
692 #
693 GENUNIX_KMODS    += genunix

695 #
696 #       SVVS Testing Modules (/kernel/strmod):
697 #
698 #       These are streams and driver modules which are not to be
699 #       delivered with a released system. However, during development
700 #       it is convenient to build and install the SVVS kernel modules.
701 #
702 SVVS_KMODS       += lmodb lmode lmodr lmodt svvslo tidg tivc tmux

704 $(CLOSED_BUILD)SVVS      += svvs

706 #
707 #       Modules eXcluded from the product:
708 #
709 $(CLOSED_BUILD)CLOSED_XMODS =      \
710     adpu320      \
711     bnx          \
712     bnxe        \
713     lsimega     \
714     sdpib

717 #

```

```

718 #       'Dacf' Modules (/kernel/dacf):
719 #

721 #
722 #       Performance Counter BackEnd modules (/usr/kernel/pcbe)
723 #
724 PCBE_KMODS       += pl23_pcbe p4_pcbe opteron_pcbe core_pcbe

726 #
727 #       MAC-Type Plugin Modules (/kernel/mac)
728 #
729 MAC_KMODS        += mac_6to4
730 MAC_KMODS        += mac_ether
731 MAC_KMODS        += mac_ipv4
732 MAC_KMODS        += mac_ipv6
733 MAC_KMODS        += mac_wifi
734 MAC_KMODS        += mac_ib

736 #
737 #       socketmod (kernel/socketmod)
738 #
739 SOCKET_KMODS     += sockpfp
740 SOCKET_KMODS     += socksctp
741 SOCKET_KMODS     += socksdp
742 SOCKET_KMODS     += sockrds
743 SOCKET_KMODS     += ksslf

745 #
746 #       kiconv modules (/kernel/kiconv):
747 #
748 KICONV_KMODS     += kiconv_emea kiconv_ja kiconv_ko kiconv_sc kiconv_tc

750 #
751 #       'Dacf' Modules (/kernel/dacf):
752 #
753 DACF_KMODS       += net_dacf

```

```

*****
13767 Fri Sep 13 11:16:20 2013
new/usr/src/uts/sparc/Makefile.sparc.shared
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
*****
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
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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) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
23 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
24 #endif /* ! codereview */

27 #
28 # This makefile contains the common definitions for all sparc
29 # implementation architecture independent modules.
30 #

32 #
33 # Define supported builds
34 #
35 DEF_BUILDS = $(DEF_BUILDS64)
36 ALL_BUILDS = $(ALL_BUILDS64)

38 #
39 # Everybody needs to know how to build modstubs.o and to locate unix.o.
40 # Note that unix.o must currently be selected from among the possible
41 # "implementation architectures". Note further, that unix.o is only
42 # used as an optional error check for undefines so (theoretically)
43 # any "implementation architectures" could be used. We choose sun4u
44 # because it is the reference port.
45 #
46 UNIX_DIR = $(UTSBASE)/sun4u/unix
47 GENLIB_DIR = $(UTSBASE)/sun4u/genunix
48 IPDRV_DIR = $(UTSBASE)/sparc/ip
49 MODSTUBS_DIR = $(UNIX_DIR)
50 DSF_DIR = $(UNIX_DIR)
51 LINTS_DIR = $(OBJS_DIR)
52 LINT_LIB_DIR = $(UTSBASE)/sparc/lint-libs/$(OBJS_DIR)

54 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
55 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
56 GENLIB = $(UTSBASE)/sun4u/lint-libs/$(OBJS_DIR)/libgenunix.so

58 LINT_LIB_32 = $(UTSBASE)/sun4u/lint-libs/$(OBJS_DIR)/llib-lunix.ln
59 GEN_LINT_LIB_32 = $(UTSBASE)/sun4u/lint-libs/$(OBJS_DIR)/llib-lgenunix.ln

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```

61 LINT_LIB_64 = $(UTSBASE)/sun4u/lint-libs/$(OBJS_DIR)/llib-lunix.ln
62 GEN_LINT_LIB_64 = $(UTSBASE)/sun4u/lint-libs/$(OBJS_DIR)/llib-lgenunix.ln

64 LINT_LIB = $(LINT_LIB_$(CLASS))
65 GEN_LINT_LIB = $(GEN_LINT_LIB_$(CLASS))

67 LINT32_DIRS = $(LINT32_BUILDS:%=$(UTSBASE)/sparc/lint-libs/%)
68 LINT32_FILES = $(LINT32_DIRS:%=%/llib-l$(MODULE).ln)

70 LINT64_DIRS = $(LINT64_BUILDS:%=$(UTSBASE)/sparc/lint-libs/%)
71 LINT64_FILES = $(LINT64_DIRS:%=%/llib-l$(MODULE).ln)

73 #
74 # Include the makefiles which define build rule templates, the
75 # collection of files per module, and a few specific flags. Note
76 # that order is significant, just as with an include path. The
77 # first build rule template which matches the files name will be
78 # used. By including these in order from most machine dependent
79 # to most machine independent, we allow a machine dependent file
80 # to be used in preference over a machine independent version
81 # (Such as a machine specific optimization, which preserves the
82 # interfaces.)
83 #
84 include $(UTSBASE)/sparc/Makefile.files
85 include $(UTSBASE)/sparc/v9/Makefile.files
86 include $(UTSTREE)/sun/Makefile.files
87 include $(UTSTREE)/common/Makefile.files

89 #
90 # ----- TRANSITIONAL SECTION -----
91 #

93 #
94 # Not everything which *should* be a module is a module yet. The
95 # following is a list of such objects which are currently part of
96 # genunix but which might someday become kmods. This must be
97 # defined before we include Makefile.uts, or else genunix's build
98 # won't be as parallel as we might like.
99 #
100 NOT_YET_KMODS = $(OLDPTY_OBJS) $(PTY_OBJS) $(VCONS_CONF_OBJS) $(MOD_OBJS)

102 #
103 # ----- END OF TRANSITIONAL SECTION -----
104 #
105 # Include machine independent rules. Note that this does not imply
106 # that the resulting module from rules in Makefile.uts is machine
107 # independent. Only that the build rules are machine independent.
108 #
109 include $(UTSBASE)/Makefile.uts

111 #
112 # machine specific optimization, override default in Makefile.master
113 #
114 XARCH_32 = -xarch=v8
115 XARCH_64 = -m64
116 XARCH = $(XARCH_$(CLASS))

118 COPTIMIZE_32 = -xO3
119 COPTIMIZE_64 = -xO3
120 COPTIMIZE = $(COPTIMIZE_$(CLASS))

122 CCMODE = -Xa

124 CFLAGS_32 = -xcg92
125 CFLAGS_64 = -xchip=ultra $(CCABS32) $(CCREGSYM)

```

```

126 CFLAGS          = $(CFLAGS_$(CLASS))
128 CFLAGS          += $(XARCH)
129 CFLAGS          += $(COPTIMIZE)
130 CFLAGS          += $(EXTRA_CFLAGS)
131 CFLAGS          += $(XAOPT)
132 CFLAGS          += $(INLINES) -D_ASM_INLINES
133 CFLAGS          += $(CCMODE)
134 CFLAGS          += $(SPACEFLAG)
135 CFLAGS          += $(CERRWARN)
136 CFLAGS          += $(CTF_FLAGS_$(CLASS))
137 CFLAGS          += $(C99MODE)
138 CFLAGS          += $(CCUNBOUND)
139 CFLAGS          += $(CCSTATICSYM)
140 CFLAGS          += $(CC32BITCALLERS)
141 CFLAGS          += $(CCNOAUTOINLINE)
142 CFLAGS          += $(IROPTFLAG)
143 CFLAGS          += $(CGLOBALSTATIC)
144 CFLAGS          += -xregs=no%float
145 CFLAGS          += -xstrconst
146 CFLAGS          += $(CSOURCEDEBUGFLAGS)
147 CFLAGS          += $(USERFLAGS)

149 ASFLAGS         += $(XARCH)

151 LINT_DEFS_32    =
152 LINT_DEFS_64    = -m64
153 LINT_DEFS       += $(LINT_DEFS_$(CLASS))

155 #
156 #       The following must be defined for all implementations:
157 #
158 #       MODSTUBS:       Module stubs source file.
159 #
160 MODSTUBS        = $(UTSBASE)/sparc/ml/modstubs.s

162 #
163 #       Define the actual specific platforms - obviously none.
164 #
165 MACHINE_DEFS    =

167 #
168 #       Debugging level
169 #
170 #       Special knowledge of which special debugging options effect which
171 #       file is used to optimize the build if these flags are changed.
172 #
173 #       XXX: The above could possibly be done for more flags and files, but
174 #       is left as an experiment to the interested reader. Be forewarned,
175 #       that excessive use could lead to maintenance difficulties.
176 #
177 DEBUG_DEFS_OBJ32 =
178 DEBUG_DEFS_DBG32 = -DDEBUG
179 DEBUG_DEFS_OBJ64 =
180 DEBUG_DEFS_DBG64 = -DDEBUG
181 DEBUG_DEFS       = $(DEBUG_DEFS_$(BUILD_TYPE))

183 DEBUG_COND_OBJ32 = $(POUND_SIGN)
23  DEBUG_COND_OBJ32 :sh = echo \\043
184 DEBUG_COND_DBG32 =
185 DEBUG_COND_OBJ64 = $(POUND_SIGN)
25  DEBUG_COND_OBJ64 :sh = echo \\043
186 DEBUG_COND_DBG64 =
187 IF_DEBUG_OBJ    = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

189 $(IF_DEBUG_OBJ)syscall.o      :=      DEBUG_DEFS      += -DSYSCALLTRACE

```

```

190 $(IF_DEBUG_OBJ)clock.o      :=      DEBUG_DEFS      += -DKSLICE=1

192 # Comment these out if you don't want dispatcher lock statistics.

194 # $(IF_DEBUG_OBJ)disp_lock.o := DEBUG_DEFS      += -DDISP_LOCK_STATS

196 #
197 #       Collect the preprocessor definitions to be associated with *all*
198 #       files.
199 #
200 ALL_DEFS          = $(MACHINE_DEFS) $(DEBUG_DEFS) $(OPTION_DEFS)
201 #
202 #
203 #       The kernels modules which are "implementation architecture"
204 #       specific for this machine are enumerated below. Note that most
205 #       of these modules must exist (in one form or another) for each
206 #       architecture.
207 #
208 #       Common Drivers (usually pseudo drivers) (/kernel/drv):
209 #
210 DRV_KMODS         += aggr arp audio bl blkdev bofi clone cn conskbd consms cpuid
211 DRV_KMODS         += crypto cryptoadm devinfo dump
212 DRV_KMODS         += dtrace fasttrap fbt lockstat profile sdt systrace dcpc
213 DRV_KMODS         += fssnap icmp icmp6 ip ip6 ipnet ipsecah
214 DRV_KMODS         += ipsecesp iptun iwscn keysock kmdb kstat ksyms llcl
215 DRV_KMODS         += lofi
216 DRV_KMODS         += log logindmux kssl mm nca physmem pm poll pool
217 DRV_KMODS         += pseudo ptc ptm pts ptsl ramdisk random rsm rts sad
218 DRV_KMODS         += simnet softmac sPPP spptun sy sysevent sysmsg
219 DRV_KMODS         += spdssock
220 DRV_KMODS         += tcp tcp6 tlnf ttymux udp udp6 wc winlock zcons
221 DRV_KMODS         += ippctl
222 DRV_KMODS         += dld
223 DRV_KMODS         += ipf
224 DRV_KMODS         += rpcib
225 DRV_KMODS         += dlpistub
226 DRV_KMODS         += vnuc
227 DRV_KMODS         += xge
228 DRV_KMODS         += rds
229 DRV_KMODS         += rdsv3
230 DRV_KMODS         += chxge
231 DRV_KMODS         += smlsdrv
232 DRV_KMODS         += vscan
233 DRV_KMODS         += nsmb
234 DRV_KMODS         += fm
235 DRV_KMODS         += nulldriver
236 DRV_KMODS         += bridge trill
237 DRV_KMODS         += bpf
238 DRV_KMODS         += dca

240 $(CLOSED_BUILD)CLOSED_DRV_KMODS += glm
241 $(CLOSED_BUILD)CLOSED_DRV_KMODS += isp
242 $(CLOSED_BUILD)CLOSED_DRV_KMODS += mpt
243 $(CLOSED_BUILD)CLOSED_DRV_KMODS += qus
244 $(CLOSED_BUILD)CLOSED_DRV_KMODS += se

246 #
247 #       Hardware Drivers in common space
248 #
249 #
250 DRV_KMODS         += afe
251 DRV_KMODS         += audio1575
252 DRV_KMODS         += audioens
253 DRV_KMODS         += audiols
254 DRV_KMODS         += audiopl6x
255 DRV_KMODS         += audiopci

```

```

256 DRV_KMODS      += audiots
257 DRV_KMODS      += e1000g
258 DRV_KMODS      += efe
259 DRV_KMODS      += hxge
260 DRV_KMODS      += mxfe
261 DRV_KMODS      += pcan
262 DRV_KMODS      += pcwl
263 DRV_KMODS      += rge
264 DRV_KMODS      += rtls
265 DRV_KMODS      += sfe
266 DRV_KMODS      += aac
267 DRV_KMODS      += igb
268 DRV_KMODS      += ixgbe
269 DRV_KMODS      += vr
270 DRV_KMODS      += mr_sas
271 $(CLOSED_BUILD)CLOSED_DRV_KMODS += ixgb
272 DRV_KMODS      += yge

274 #
275 #       Machine Specific Driver Modules (/kernel/drv):
276 #
277 DRV_KMODS      += audiocs
278 DRV_KMODS      += bge dmfe eri fas hme qfe
279 DRV_KMODS      += openepr options sd ses st
280 DRV_KMODS      += ssd
281 DRV_KMODS      += ecppp
282 DRV_KMODS      += hid hubd ehci ohci uhci usb_mid usb_ia scsa2usb usbprn ugen
283 DRV_KMODS      += usbser usbsacm usbsksp usbsprl
284 DRV_KMODS      += usb_as usb_ac
285 DRV_KMODS      += usbskel
286 DRV_KMODS      += usbvc
287 DRV_KMODS      += usbftdi
288 DRV_KMODS      += wusb_df hwahc hwarc wusb_ca
289 DRV_KMODS      += usbecm
290 DRV_KMODS      += hcil1394 avl1394 scsa1394 dcaml1394
291 DRV_KMODS      += sbp2
292 DRV_KMODS      += ib ibp eibnx eoib rdsib sdp iser daplt hermon tavor sol_ucma
293 DRV_KMODS      += sol_umad
294 DRV_KMODS      += pci_pci pcieb pcieb_bcm
295 DRV_KMODS      += i8042 kb8042 mouse8042
296 DRV_KMODS      += fcode
297 DRV_KMODS      += mpt_sas
298 DRV_KMODS      += socal
299 DRV_KMODS      += sgen
300 DRV_KMODS      += myril0ge
301 DRV_KMODS      += smp
302 DRV_KMODS      += dad
303 DRV_KMODS      += scsi_vhci
304 DRV_KMODS      += fcp
305 DRV_KMODS      += fcip
306 DRV_KMODS      += fcsm
307 DRV_KMODS      += fp
308 DRV_KMODS      += qlc
309 DRV_KMODS      += qlge
310 DRV_KMODS      += stmf
311 DRV_KMODS      += stmf_sbd
312 DRV_KMODS      += fct
313 DRV_KMODS      += fcoe
314 DRV_KMODS      += fcoet
315 DRV_KMODS      += fcoel
316 DRV_KMODS      += qlt
317 DRV_KMODS      += iscsit
318 DRV_KMODS      += pppt
319 DRV_KMODS      += ncall nsctl sdbc nskern sv
320 DRV_KMODS      += ii rdc rdcsrv rdcstub
321 DRV_KMODS      += iscsi

```

```

322 DRV_KMODS      += emlxs
323 DRV_KMODS      += oce
324 DRV_KMODS      += srpt
325 DRV_KMODS      += pmcs
326 DRV_KMODS      += pmcs8001fw

328 $(CLOSED_BUILD)CLOSED_DRV_KMODS += ifp
329 $(CLOSED_BUILD)CLOSED_DRV_KMODS += uata
330 $(CLOSED_BUILD)CLOSED_DRV_KMODS += usbser_edge

332 #
333 #       I/O framework test drivers
334 #
335 DRV_KMODS      += pshot
336 DRV_KMODS      += gen_drv
337 DRV_KMODS      += tvhci tphci tclient
338 DRV_KMODS      += emul64

340 #
341 #       PCMCIA specific module(s)
342 #
343 DRV_KMODS      += pcs
344 MISC_KMODS     += busra cardbus dada pcmcia
345 DRV_KMODS      += pcata
346 DRV_KMODS      += pcic

348 $(CLOSED_BUILD)CLOSED_DRV_KMODS += pcser

350 # Add lvm
351 #
352 DRV_KMODS      += md
353 MISC_KMODS     += md_mirror md_stripe md_hotspares md_raid md_trans md_notify
354 MISC_KMODS     += md_sp

356 #
357 #       Exec Class Modules (/kernel/exec):
358 #
359 EXEC_KMODS     += aoutexec elfexec intpexec shbinexec javaexec

361 #
362 #       Scheduling Class Modules (/kernel/sched):
363 #
364 SCHED_KMODS    += RT TS RT_DPTBL TS_DPTBL IA FSS FX FX_DPTBL SDC

366 #
367 #       File System Modules (/kernel/fs):
368 #
369 FS_KMODS       += dev devfs fdfs fifofs hsfhs lofs namefs nfs pcfs tmpfs zfs
370 FS_KMODS       += zut specfs udfs ufs autofs cacheofs procfs sockfs mntfs
371 FS_KMODS       += ctfjs objfs sharefs dcfs smbfs

373 #
374 #       Streams Modules (/kernel/strmod):
375 #
376 STRMOD_KMODS  += bufmod connld dedump ldterm ms pckct pfmod
377 STRMOD_KMODS  += pipemod ptem redirmod rpcmod rlmod telmod timod
378 STRMOD_KMODS  += sppasyn spppcomp
379 STRMOD_KMODS  += tirdwr ttcompat
380 STRMOD_KMODS  += usbkbm usbms usbwcm usb_ah
381 STRMOD_KMODS  += drcompat
382 STRMOD_KMODS  += cryptmod
383 STRMOD_KMODS  += vuid3ps2

385 #
386 #       'System' Modules (/kernel/sys):
387 #

```

```

388 SYS_KMODS      += c2audit
389 SYS_KMODS      += exacctsys
390 SYS_KMODS      += inst_sync kaio msgsys semsys shmsys sysacct pipe
391 SYS_KMODS      += doorfs pset acctctl portfs

393 #
394 #       'User' Modules (/kernel/misc):
395 #
396 MISC_KMODS      += ac97
397 MISC_KMODS      += bignum
398 MISC_KMODS      += consconfig gld ipc nfs_dlboot nfssrv scsi
399 MISC_KMODS      += strplumb swapgeneric tlimod
400 MISC_KMODS      += rpcsec rpcsec_gss kgssapi kmecch_dumy
401 MISC_KMODS      += kmecch_krb5
402 MISC_KMODS      += fssnap_if
403 MISC_KMODS      += hidparser kbtrans usba usba10 usbs49_fw
404 MISC_KMODS      += sl394
405 MISC_KMODS      += hpcsvc pcihp
406 MISC_KMODS      += rsmops
407 MISC_KMODS      += kcf
408 MISC_KMODS      += ksocket
409 MISC_KMODS      += ibcm
410 MISC_KMODS      += ibdm
411 MISC_KMODS      += ibdma
412 MISC_KMODS      += ibmf
413 MISC_KMODS      += ibtl
414 MISC_KMODS      += sol_ofs
415 MISC_KMODS      += idm
416 MISC_KMODS      += idmap
417 MISC_KMODS      += hook
418 MISC_KMODS      += neti
419 MISC_KMODS      += ctf
420 MISC_KMODS      += mac dls
421 MISC_KMODS      += cmlb
422 MISC_KMODS      += tem
423 MISC_KMODS      += pcicfg fcodem fcpci
424 MISC_KMODS      += scsi_vhci_f_sym scsi_vhci_f_tpgs scsi_vhci_f_asym_sun
425 MISC_KMODS      += scsi_vhci_f_sym_hds
426 MISC_KMODS      += scsi_vhci_f_tape scsi_vhci_f_tpgs_tape
427 MISC_KMODS      += fctl
428 MISC_KMODS      += emlxs_fw
429 MISC_KMODS      += qlc_fw_2200
430 MISC_KMODS      += qlc_fw_2300
431 MISC_KMODS      += qlc_fw_2400
432 MISC_KMODS      += qlc_fw_2500
433 MISC_KMODS      += qlc_fw_6322
434 MISC_KMODS      += qlc_fw_8100
435 MISC_KMODS      += spuni
436 MISC_KMODS      += hwa1480_fw uwba
437 MISC_KMODS      += mii

439 MISC_KMODS      += klmmod klmops

441 $(CLOSED_BUILD)CLOSED_MISC_KMODS      += scsi_vhci_f_asym_lsi
442 $(CLOSED_BUILD)CLOSED_MISC_KMODS      += scsi_vhci_f_asym_emc
443 $(CLOSED_BUILD)CLOSED_MISC_KMODS      += scsi_vhci_f_sym_emc

445 #
446 #       Software Cryptographic Providers (/kernel/crypto):
447 #
448 CRYPTO_KMODS    += aes
449 CRYPTO_KMODS    += arcfour
450 CRYPTO_KMODS    += blowfish
451 CRYPTO_KMODS    += des
452 CRYPTO_KMODS    += md4
453 CRYPTO_KMODS    += md5

```

```

454 CRYPTO_KMODS    += ecc
455 CRYPTO_KMODS    += rsa
456 CRYPTO_KMODS    += sha1
457 CRYPTO_KMODS    += sha2
458 CRYPTO_KMODS    += swrand

460 #
461 #       IP Policy Modules (/kernel/ipp):
462 #
463 IPP_KMODS        += dlcosmk
464 IPP_KMODS        += flowacct
465 IPP_KMODS        += ipgpc
466 IPP_KMODS        += dscpmk
467 IPP_KMODS        += tokenmt
468 IPP_KMODS        += tswtclmt

470 #
471 #       'Dacf' modules (/kernel/dacf)
472 DACF_KMODS       += consconfig_dacf

474 #
475 #       SVVS Testing Modules (/kernel/strmod):
476 #
477 #       These are streams and driver modules which are not to be
478 #       delivered with a released system. However, during development
479 #       it is convenient to build and install the SVVS kernel modules.
480 #
481 SVVS_KMODS       += lmodb lmode lmodr lmodt svvslo tidg tivc tmuX

483 $(CLOSED_BUILD)SVVS      += svvs

485 #
486 #       Modules eXcluded from the product:
487 #
488 XMODS            +=
489 $(CLOSED_BUILD)CLOSED_XMODS = \
490     sdpib         \
491     wsdrv

493 #
494 #       'Dacf' Modules (/kernel/dacf):
495 #
496 DACF_KMODS       += net_dacf

498 #
499 #       MAC-Type Plugin Modules (/kernel/mac)
500 #
501 MAC_KMODS        += mac_6to4
502 MAC_KMODS        += mac_ether
503 MAC_KMODS        += mac_ipv4
504 MAC_KMODS        += mac_ipv6
505 MAC_KMODS        += mac_wifi
506 MAC_KMODS        += mac_ib

508 #
509 #       socketmod (kernel/socketmod)
510 #
511 SOCKET_KMODS     += sockpfp
512 SOCKET_KMODS     += socksctp
513 SOCKET_KMODS     += socksdp
514 SOCKET_KMODS     += sockrds
515 SOCKET_KMODS     += ksslf

517 #
518 #       kiconv modules (/kernel/kiconv):
519 #

```


`new/usr/src/uts/sparc/Makefile.sparc.shared`

9

`520 KICONV_KMODS += kiconv_emea kiconv_ja kiconv_ko kiconv_sc kiconv_tc`

```

*****
13829 Fri Sep 13 11:16:21 2013
new/usr/src/uts/sun4u/Makefile.sun4u.shared
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
*****
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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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 2010 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
26 #endif /* ! codereview */
27 #
28 # This makefile contains the common definitions for the sun4u unix
29 # and all sun4u implementation architecture dependent modules.
30 #

32 #
33 # Machine type (implementation architecture):
34 #
35 PLATFORM = sun4u
36 PROMIF = ieee1275
37 PSMBASE = $(UTSBASE)/../psm

39 #
40 # uname -m value
41 #
42 UNAME_M = $(PLATFORM)

44 #
45 # Definitions for the platform-specific /platform directories.
46 #
47 # PLATFORMS designates those sun4u machines which have no platform
48 # specific code.
49 #
50 # IMPLEMENTATIONS is used to designate sun4u machines which do have
51 # platform specific modules (perhaps including their own unix). All
52 # code specific to a given implementation resides in the appropriately
53 # named subdirectory. This requires these platforms to have their
54 # own Makefiles to define ROOT_PLAT_DIRS, USR_PLAT_DIRS, etc.
55 #
56 # So if we had an implementation named 'foo', we would need the following
57 # Makefiles in the foo subdirectory:
58 #
59 # sun4u/foo/Makefile

```

```

60 # sun4u/foo/Makefile.foo
61 # sun4u/foo/Makefile.targ
62 #

64 #
65 # /usr/platform/$(IMPLEMENTED_PLATFORM) is created as a directory that
66 # all the $(LINKED_PLATFORMS) link to.
67 #
68 IMPLEMENTED_PLATFORM = SUNW,Ultra-2

70 LINKED_PLATFORMS += SUNW,Ultra-30
71 LINKED_PLATFORMS += SUNW,Ultra-60

73 #
74 # all PLATFORMS that do not belong in the $(IMPLEMENTATIONS) list
75 # ie. all desktop platforms
76 #
77 PLATFORMS = $(IMPLEMENTED_PLATFORM)
78 PLATFORMS += $(LINKED_PLATFORMS)

80 ROOT_PLAT_DIRS = $(PLATFORMS:%=$(ROOT_PLAT_DIR)/%)
81 USR_PLAT_DIRS = $(PLATFORMS:%=$(USR_PLAT_DIR)/%)

83 USR_DESKTOP_DIR = $(USR_PLAT_DIR)/$(IMPLEMENTED_PLATFORM)
84 USR_DESKTOP_INC_DIR = $(USR_DESKTOP_DIR)/include
85 USR_DESKTOP_SBIN_DIR = $(USR_DESKTOP_DIR)/sbin
86 USR_DESKTOP_LIB_DIR = $(USR_DESKTOP_DIR)/lib

88 #
89 # Welcome to SPARC V9.
90 #

92 #
93 # Define supported builds
94 #
95 DEF_BUILDS = $(DEF_BUILDS64)
96 ALL_BUILDS = $(ALL_BUILDS64)

98 #
99 # Everybody needs to know how to build modstubs.o and to locate unix.o
100 #
101 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
102 GENLIB_DIR = $(UTSBASE)/$(PLATFORM)/genunix
103 MODSTUBS_DIR = $(UNIX_DIR)
104 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
105 LINTS_DIR = $(OBJS_DIR)
106 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
107
108 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
109 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so

111 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
112 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
113 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so

115 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
116 GEN_LINT_LIB = $(LINT_LIB_DIR)/llib-lgenunix.ln

118 LINT64_DIRS = $(LINT64_BUILDS:%=$(UTSBASE)/$(PLATFORM)/lint-libs/%)
119 LINT64_FILES = $(LINT64_DIRS:%=%/llib-l$(MODULE).ln)

121 #
122 # cpu and platform modules need to know how to build their own symcheck mo
123 #
124 PLATMOD = platmod
125 PLATLIB = $(PLAT_DIR)/$(OBJS_DIR)/libplatmod.so

```

```

127 CPUNAME      = cpu
128 CPULIB       = $(CPU_DIR)/$(OBJS_DIR)/libcpu.so

130 SYM_MOD      = $(OBJS_DIR)/unix.sym

132 #
133 #   Include the makefiles which define build rule templates, the
134 #   collection of files per module, and a few specific flags. Note
135 #   that order is significant, just as with an include path. The
136 #   first build rule template which matches the files name will be
137 #   used. By including these in order from most machine dependent
138 #   to most machine independent, we allow a machine dependent file
139 #   to be used in preference over a machine independent version
140 #   (such as a machine specific optimization, which preserves the
141 #   interfaces.)
142 #
143 include $(UTSBASE)/sun4/Makefile.files
144 include $(UTSTREE)/$(PLATFORM)/Makefile.files
145 include $(UTSBASE)/sfmmu/Makefile.files
146 include $(UTSBASE)/sparc/v9/Makefile.files
147 include $(UTSBASE)/sparc/Makefile.files
148 include $(UTSTREE)/sun/Makefile.files
149 include $(SRC)/psm/promif/$(PROMIF)/common/Makefile.files
150 include $(SRC)/psm/promif/$(PROMIF)/$(PLATFORM)/Makefile.files
151 include $(UTSTREE)/common/Makefile.files

153 #
154 #   Include machine independent rules. Note that this does not imply
155 #   that the resulting module from rules in Makefile.uts is machine
156 #   independent. Only that the build rules are machine independent.
157 #
158 include $(UTSBASE)/Makefile.uts

160 # These come after Makefile.uts (for CLOSED_BUILD).
161 IMPLEMENTATIONS = tazmo
162 IMPLEMENTATIONS += starfire
163 IMPLEMENTATIONS += javelin
164 IMPLEMENTATIONS += darwin
165 IMPLEMENTATIONS += quasar
166 IMPLEMENTATIONS += grover
167 IMPLEMENTATIONS += enchilada
168 IMPLEMENTATIONS += taco
169 IMPLEMENTATIONS += mpXu
170 IMPLEMENTATIONS += excalibur
171 IMPLEMENTATIONS += montecarlo
172 IMPLEMENTATIONS += serengeti
173 IMPLEMENTATIONS += littleneck
174 IMPLEMENTATIONS += starcat
175 IMPLEMENTATIONS += daktari
176 IMPLEMENTATIONS += cherrystone
177 IMPLEMENTATIONS += fjlite
178 IMPLEMENTATIONS += snowbird
179 IMPLEMENTATIONS += schumacher
180 IMPLEMENTATIONS += blade
181 IMPLEMENTATIONS += boston
182 IMPLEMENTATIONS += seattle
183 IMPLEMENTATIONS += chicago
184 IMPLEMENTATIONS += sunfire
185 IMPLEMENTATIONS += lw8
186 IMPLEMENTATIONS += makaha
187 IMPLEMENTATIONS += opl
188 IMPLEMENTATIONS += lw2plus

190 $(CLOSED_BUILD)CLOSED_IMPLEMENTATIONS = chalupa
191 $(CLOSED_BUILD)CLOSED_IMPLEMENTATIONS += ents

```

```

193 #
194 #   machine specific optimization, override default in Makefile.master
195 #
196 CC_XARCH      = -m64 -xarch=sparcv9
197 AS_XARCH      = -xarch=v9a
198 COPTIMIZE     = -xO3
199 CCMODE        = -Xa

201 CFLAGS        = -xchip=ultra $(CCABS32) $(CCREGSYM)
202 CFLAGS        += $(CC_XARCH)
203 CFLAGS        += $(COPTIMIZE)
204 CFLAGS        += $(EXTRA_CFLAGS)
205 CFLAGS        += $(XAOPT)
206 CFLAGS        += $(INLINES) -D_ASM_INLINES
207 CFLAGS        += $(CCMODE)
208 CFLAGS        += $(SPACEFLAG)
209 CFLAGS        += $(CERRWARN)
210 CFLAGS        += $(CTF_FLAGS_$(CLASS))
211 CFLAGS        += $(C99MODE)
212 CFLAGS        += $(CCUNBOUND)
213 CFLAGS        += $(CCNOAUTOINLINE)
214 CFLAGS        += $(CCSTATICSYM)
215 CFLAGS        += $(CC32BITCALLERS)
216 CFLAGS        += $(IROPTFLAG)
217 CFLAGS        += $(CGLOBALSTATIC)
218 CFLAGS        += -xregs=no%float
219 CFLAGS        += -xstrconst
220 CFLAGS        += $(CSOURCEDEBUGFLAGS)
221 CFLAGS        += $(USERFLAGS)

223 ASFLAGS       += $(AS_XARCH)

225 AS_INC_PATH  += -I$(DSF_DIR)/$(OBJS_DIR)

227 LINT_KMODS   += $(GENUNIX_KMODS)

229 LINT_DEFS    = -m64

231 #
232 #   The following must be defined for all implementations:
233 #
234 #   MAPFILE:          ld mapfile for the build of kernel/unix.
235 #   MODSTUBS:         Module stubs source file.
236 #   GENCONST_SRC:     genconst.c
237 #   OFFSETS:          offsets.in
238 #   PLATFORM_OFFSETS: Platform specific mach_offsets.in
239 #   FDOFFSETS:        fd_offsets.in
240 #
241 MAPFILE       = $(UTSBASE)/sun4/conf/Mapfile
242 MODSTUBS     = $(UTSBASE)/sparc/ml/modstubs.s
243 GENCONST_SRC = $(UTSBASE)/sun4/ml/genconst.c
244 OFFSETS      = $(UTSBASE)/sun4/ml/offsets.in
245 PLATFORM_OFFSETS = $(UTSBASE)/sun4u/ml/mach_offsets.in
246 FDOFFSETS    = $(UTSBASE)/sun/io/fd_offsets.in

248 #
249 #   Define the actual specific platforms
250 #

252 MACHINE_DEFS = -D$(PLATFORM) -D_MACHDEP -DSFMMU

254 #
255 #   Software workarounds for hardware "features"
256 #

```

```

258 include $(UTSBASE)/$(PLATFORM)/Makefile.workarounds

260 #
261 #   Debugging level
262 #
263 #   Special knowledge of which special debugging options effect which
264 #   file is used to optimize the build if these flags are changed.
265 #
266 #   XXX: The above could possibly be done for more flags and files, but
267 #   is left as an experiment to the interested reader. Be forewarned,
268 #   that excessive use could lead to maintenance difficulties.
269 #
270 #   Note: ksllice can be enabled for the sun4u, but is disabled by default
271 #   in all cases.
272 #

274 DEBUG_DEFS_OBJ64      =
275 DEBUG_DEFS_DBG64      = -DDEBUG
276 DEBUG_DEFS             = $(DEBUG_DEFS_$(BUILD_TYPE))

278 DEBUG_COND_OBJ64      = $(POUND_SIGN)
279   25 DEBUG_COND_OBJ64  :sh = echo \\043
280 IF_DEBUG_OBJ          = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

282 $(IF_DEBUG_OBJ)trap.o      :=      DEBUG_DEFS      += -DTRAPDEBUG
283 $(IF_DEBUG_OBJ)mach_trap.o :=      DEBUG_DEFS      += -DTRAPDEBUG
284 $(IF_DEBUG_OBJ)syscall_trap.o :=    DEBUG_DEFS      += -DSYSCALLTRACE
285 $(IF_DEBUG_OBJ)clock.o     :=      DEBUG_DEFS      += -DKSLICE=0

287 IF_TRAPTRACE_OBJ = $(IF_DEBUG_OBJ)
288 # comment this out for a non-debug kernel with TRAPTRACE
289 #IF_TRAPTRACE_OBJ = $(OBJS_DIR)/

291 $(IF_TRAPTRACE_OBJ)mach_locore.o :=    DEBUG_DEFS      += -DTRAPTRACE
292 $(IF_TRAPTRACE_OBJ)m1setup.o     :=    DEBUG_DEFS      += -DTRAPTRACE
293 $(IF_TRAPTRACE_OBJ)syscall_trap.o :=    DEBUG_DEFS      += -DTRAPTRACE
294 $(IF_TRAPTRACE_OBJ)startup.o     :=    DEBUG_DEFS      += -DTRAPTRACE
295 $(IF_TRAPTRACE_OBJ)mach_startup.o :=    DEBUG_DEFS      += -DTRAPTRACE
296 $(IF_TRAPTRACE_OBJ)mp_startup.o  :=    DEBUG_DEFS      += -DTRAPTRACE
297 $(IF_TRAPTRACE_OBJ)cpu_states.o  :=    DEBUG_DEFS      += -DTRAPTRACE
298 $(IF_TRAPTRACE_OBJ)mach_cpu_states.o :=  DEBUG_DEFS      += -DTRAPTRACE
299 $(IF_TRAPTRACE_OBJ)interrupt.o   :=    DEBUG_DEFS      += -DTRAPTRACE
300 $(IF_TRAPTRACE_OBJ)mach_interrupt.o :=  DEBUG_DEFS      += -DTRAPTRACE
301 $(IF_TRAPTRACE_OBJ)sfmmu_asm.o   :=    DEBUG_DEFS      += -DTRAPTRACE
302 $(IF_TRAPTRACE_OBJ)trap_table.o  :=    DEBUG_DEFS      += -DTRAPTRACE
303 $(IF_TRAPTRACE_OBJ)xc.o          :=    DEBUG_DEFS      += -DTRAPTRACE
304 $(IF_TRAPTRACE_OBJ)mach_xc.o     :=    DEBUG_DEFS      += -DTRAPTRACE
305 $(IF_TRAPTRACE_OBJ)wbuf.o        :=    DEBUG_DEFS      += -DTRAPTRACE
306 $(IF_TRAPTRACE_OBJ)trap.o        :=    DEBUG_DEFS      += -DTRAPTRACE
307 $(IF_TRAPTRACE_OBJ)mach_trap.o   :=    DEBUG_DEFS      += -DTRAPTRACE
308 $(IF_TRAPTRACE_OBJ)x_call.o      :=    DEBUG_DEFS      += -DTRAPTRACE
309 $(IF_TRAPTRACE_OBJ)spitfire_asm.o :=    DEBUG_DEFS      += -DTRAPTRACE
310 $(IF_TRAPTRACE_OBJ)us3_common_asm.o :=  DEBUG_DEFS      += -DTRAPTRACE
311 $(IF_TRAPTRACE_OBJ)us3_cheetah_asm.o :=  DEBUG_DEFS      += -DTRAPTRACE
312 $(IF_TRAPTRACE_OBJ)us3_cheetahplus_asm.o :=  DEBUG_DEFS      += -DTRAPTRACE
313 $(IF_TRAPTRACE_OBJ)us3_jalapeno_asm.o :=  DEBUG_DEFS      += -DTRAPTRACE
314 $(IF_TRAPTRACE_OBJ)opl_olympus_asm.o :=  DEBUG_DEFS      += -DTRAPTRACE

316 # Comment these out if you don't want dispatcher lock statistics.

318 #$(IF_DEBUG_OBJ)lock_prim.o      := DEBUG_DEFS      += -DDISP_LOCK_STATS
319 #$(IF_DEBUG_OBJ)disp.o           := DEBUG_DEFS      += -DDISP_LOCK_STATS

321 # Comment these out if you don't want dispatcher debugging

```

```

323 #$(IF_DEBUG_OBJ)lock_prim.o      := DEBUG_DEFS      += -DDISP_DEBUG

325 #
326 #   Collect the preprocessor definitions to be associated with *all*
327 #   files.
328 #
329 ALL_DEFS             = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
330                       $(OPTION_DEFS)
331 GENCONST_DEFS       = $(MACHINE_DEFS) $(OPTION_DEFS)

333 #
334 # ----- TRANSITIONAL SECTION -----
335 #

337 #
338 #   Not everything which *should* be a module is a module yet. The
339 #   following is a list of such objects which are currently part of
340 #   the base kernel but should soon become kmods.
341 #
342 MACH_NOT_YET_KMODS   = $(AUTOCONF_OBJS)

344 #
345 # ----- END OF TRANSITIONAL SECTION -----
346 #

348 #
349 #   The kernels modules which are "implementation architecture"
350 #   specific for this machine are enumerated below. Note that most
351 #   of these modules must exist (in one form or another) for each
352 #   architecture.
353 #
354 #   Common Drivers (usually pseudo drivers) (/kernel/drv):
355 #

357 #
358 #   Machine Specific Driver Modules (/kernel/drv):
359 #
360 #   XXX: How many of these are really machine specific?
361 #
362 DRV_KMODS             += bbc_beep
363 DRV_KMODS             += cpc
364 DRV_KMODS             += fd
365 DRV_KMODS             += rootnex sbusmem upa64s zs zsh
366 DRV_KMODS             += sbus
367 DRV_KMODS             += pcisch pcipsy simba
368 DRV_KMODS             += px
369 DRV_KMODS             += ebus
370 DRV_KMODS             += su
371 DRV_KMODS             += tod
372 DRV_KMODS             += power
373 DRV_KMODS             += epic
374 DRV_KMODS             += grbeep
375 DRV_KMODS             += pcf8584 max1617 seeprom tda8444 pca9556
376 DRV_KMODS             += ics951601 adm1031
377 DRV_KMODS             += lm75 ltc1427 pcf8591 pcf8574 ssc050 ssc100
378 DRV_KMODS             += pic16f819
379 DRV_KMODS             += pic16f747
380 DRV_KMODS             += adm1026
381 DRV_KMODS             += us
382 DRV_KMODS             += ppm schppm jbusppm
383 DRV_KMODS             += mc-us3
384 DRV_KMODS             += mc-us3i
385 DRV_KMODS             += sbus
386 DRV_KMODS             += db21554
387 DRV_KMODS             += gpio_87317
388 DRV_KMODS             += isadma

```

```

389 DRV_KMODS      += sbbc
390 DRV_KMODS      += pmubus
391 DRV_KMODS      += pmugpio
392 DRV_KMODS      += pmc
393 DRV_KMODS      += trapstat
394 DRV_KMODS      += rmc_comm
395 DRV_KMODS      += rmcadm
396 DRV_KMODS      += rmcclmv
397 DRV_KMODS      += sf
398 DRV_KMODS      += nxge
399 DRV_KMODS      += i2bsc
400 DRV_KMODS      += mem_cache

402 $(CLOSED_BUILD)CLOSED_DRV_KMODS += ctsmc
403 $(CLOSED_BUILD)CLOSED_DRV_KMODS += m1535ppm
404 $(CLOSED_BUILD)CLOSED_DRV_KMODS += memtest
405 $(CLOSED_BUILD)CLOSED_DRV_KMODS += mi2cv
406 $(CLOSED_BUILD)CLOSED_DRV_KMODS += smbus_ara

408 #
409 #       Exec Class Modules (/kernel/exec):
410 #
411 EXEC_KMODS      +=

413 #
414 #       Scheduling Class Modules (/kernel/sched):
415 #
416 SCHED_KMODS    +=

418 #
419 #       File System Modules (/kernel/fs):
420 #
421 FS_KMODS       +=

423 #
424 #       Streams Modules (/kernel/strmod):
425 #
426 STRMOD_KMODS   += kb

428 #
429 #       'System' Modules (/kernel/sys):
430 #
431 SYS_KMODS      +=

433 #
434 #       'User' Modules (/kernel/misc):
435 #
436 MISC_KMODS     += bignum
437 MISC_KMODS     += obpsym bootdev vis cpr platmod md5 sha1 i2c_svc
438 MISC_KMODS     += sbd

440 MISC_KMODS     += opl_cfg
441 MISC_KMODS     += zuluvm
442 MISC_KMODS     += gptwo_cpu gptwocfg
443 MISC_KMODS     += pcie

445 #
446 #       Brand modules
447 #
448 BRAND_KMODS    += snl_brand s10_brand

450 #
451 #       Software Cryptographic Providers (/kernel/crypto):
452 #
453 CRYPTO_KMODS   += aes
454 CRYPTO_KMODS   += arcfour

```

```

455 CRYPTO_KMODS   += des

457 #
458 #       generic-unix module (/kernel/genunix):
459 #
460 GENUNIX_KMODS   += genunix

462 #       'User' "Modules" excluded from the Full Kernel lint target:
463 #
464 $(CLOSED_BUILD)CLOSED_NLMISC_KMODS      += forthdebug

466 #
467 #       Modules eXcluded from the product:
468 #
469 XMODS           +=

471 #
472 #       cpu modules
473 #
474 CPU_KMODS       += cheetah cheetahplus jalapeno serrano spitfire hummingbird

476 #
477 #       sun4u 'TOD' Modules (/platform/.../kernel/tod):
478 #
479 TOD_KMODS       += toddsl287 toddsl337 todmostek todstarfire
480 TOD_KMODS       += todm5819 todblade todhq4802 todsg todopl
481 TOD_KMODS       += todm5819p_rmc todstarcat

483 $(CLOSED_BUILD)CLOSED_TOD_KMODS += todm5823

485 #
486 #       Performance Counter BackEnd Modules (/usr/kernel/pcbe):
487 #
488 PCBE_KMODS      += us234_pcbe
489 PCBE_KMODS      += opl_pcbe

```

```

*****
12397 Fri Sep 13 11:16:21 2013
new/usr/src/uts/sun4v/Makefile.sun4v.shared
3806 illumos build execs echo unnecessarily
Reviewed by: Garrett D'Amore <garrett.damore@gmail.com>
Reviewed by: Gary Mills <gary_mills@fastmail.fm>
*****
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 2010 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
26 #endif /* ! codereview */
27 #
28 # This makefile contains the common definitions for the sun4v unix
29 # and all sun4v implementation architecture dependent modules.
30 #
31 #
32 #
33 # Machine type (implementation architecture):
34 #
35 PLATFORM = sun4v
36 LINKED_PLATFORMS += SUNW,Sun-Fire-T1000
37 LINKED_PLATFORMS += SUNW,SPARC-Enterprise-T5120
38 LINKED_PLATFORMS += SUNW,SPARC-Enterprise-T5220
39 LINKED_PLATFORMS += SUNW,T5140
40 LINKED_PLATFORMS += SUNW,T5240
41 LINKED_PLATFORMS += SUNW,T5440
42 LINKED_PLATFORMS += SUNW,SPARC-Enterprise-T1000
43 LINKED_PLATFORMS += SUNW,Sun-Blade-T6300
44 LINKED_PLATFORMS += SUNW,Sun-Blade-T6320
45 LINKED_PLATFORMS += SUNW,Netra-CP3260
46 LINKED_PLATFORMS += SUNW,Netra-T5220
47 LINKED_PLATFORMS += SUNW,USBRDT-5240
48 LINKED_PLATFORMS += SUNW,Netra-T5440
49 LINKED_PLATFORMS += SUNW,Sun-Blade-T6340
50 PROMIF = ieee1275
51 PSMBASE = $(UTSBASE)/../psm
52 #
53 #
54 # uname -m value
55 #
56 UNAME_M = $(PLATFORM)
57 #
58 #
59 # Definitions for the platform-specific /platform directories.

```

```

60 #
61 # PLATFORMS designates those sun4v machines which have no platform
62 # specific code.
63 #
64 # IMPLEMENTATIONS is used to designate sun4v machines which have
65 # platform specific modules. All code specific to a given implementation
66 # resides in the appropriately named subdirectory. This requires
67 # these platforms to have their own Makefiles to define ROOT_PLAT_DIRS,
68 # USR_PLAT_DIRS, etc.
69 # The number of IMPLEMENTATIONS should not grow!
70 #
71 # So if we had an implementation named 'foo', we would need the following
72 # Makefiles in the foo subdirectory:
73 #
74 #     sun4v/foo/Makefile
75 #     sun4v/foo/Makefile.foo
76 #     sun4v/foo/Makefile.targ
77 #
78 #
79 #
80 # all PLATFORMS that do not belong in the $(IMPLEMENTATIONS) list.
81 # This list should be empty. A platform without platform modules
82 # is a plain, generic sun4v platform.
83 #
84 #IMPLEMENTED_PLATFORM =
85 #PLATFORMS = $(IMPLEMENTED_PLATFORM)
86 #
87 IMPLEMENTATIONS = ontario montoya huron maramba
88 #
89 #ROOT_PLAT_DIRS = $(PLATFORMS:%=$(ROOT_PLAT_DIR)/%)
90 #USR_PLAT_DIRS = $(PLATFORMS:%=$(USR_PLAT_DIR)/%)
91 #
92 #USR_DESKTOP_DIR = $(USR_PLAT_DIR)/$(IMPLEMENTED_PLATFORM)
93 #USR_DESKTOP_INC_DIR = $(USR_DESKTOP_DIR)/include
94 #USR_DESKTOP_SBIN_DIR = $(USR_DESKTOP_DIR)/sbin
95 #USR_DESKTOP_LIB_DIR = $(USR_DESKTOP_DIR)/lib
96 #
97 #
98 # Define supported builds
99 #
100 DEF_BUILDS = $(DEF_BUILDS64)
101 ALL_BUILDS = $(ALL_BUILDS64)
102 #
103 #
104 # Everybody needs to know how to build modstubs.o and to locate unix.o
105 #
106 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
107 GENLIB_DIR = $(UTSBASE)/$(PLATFORM)/genunix
108 MODSTUBS_DIR = $(UNIX_DIR)
109 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
110 LINTS_DIR = $(OBJS_DIR)
111 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
112 #
113 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
114 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so
115 #
116 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
117 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
118 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so
119 #
120 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
121 GEN_LINT_LIB = $(LINT_LIB_DIR)/llib-lgenunix.ln
122 #
123 LINT64_DIRS = $(LINT64_BUILDS:%=$(UTSBASE)/$(PLATFORM)/lint-libs/%)
124 LINT64_FILES = $(LINT64_DIRS:%=%/llib-l$(MODULE).ln)

```

```

126 #
127 #      cpu and platform modules need to know how to build their own symcheck mo
128 #
129 PLATMOD      = platmod
130 PLATLIB      = $(PLAT_DIR)/$(OBJS_DIR)/libplatmod.so

132 CPUNAME     = cpu
133 CPULIB      = $(CPU_DIR)/$(OBJS_DIR)/libcpu.so

135 SYM_MOD     = $(OBJS_DIR)/unix.sym

137 #
138 #      Include the makefiles which define build rule templates, the
139 #      collection of files per module, and a few specific flags. Note
140 #      that order is significant, just as with an include path. The
141 #      first build rule template which matches the files name will be
142 #      used. By including these in order from most machine dependent
143 #      to most machine independent, we allow a machine dependent file
144 #      to be used in preference over a machine independent version
145 #      (Such as a machine specific optimization, which preserves the
146 #      interfaces.)
147 #
148 include $(UTSBASE)/sun4/Makefile.files
149 include $(UTSTREE)/$(PLATFORM)/Makefile.files
150 include $(UTSBASE)/sfmmu/Makefile.files
151 include $(UTSBASE)/sparc/v9/Makefile.files
152 include $(UTSBASE)/sparc/Makefile.files
153 include $(UTSTREE)/sun/Makefile.files
154 include $(SRC)/psm/promif/$(PROMIF)/common/Makefile.files
155 include $(SRC)/psm/promif/$(PROMIF)/$(PLATFORM)/Makefile.files
156 include $(UTSTREE)/common/Makefile.files

158 #
159 #      Include machine independent rules. Note that this does not imply
160 #      that the resulting module from rules in Makefile.uts is machine
161 #      independent. Only that the build rules are machine independent.
162 #
163 include $(UTSBASE)/Makefile.uts

165 CTFMERGE_GUDIR = sun4v

167 #
168 #      machine specific optimization, override default in Makefile.master
169 #
170 CC_XARCH      = -m64 -xarch=sparcv9
171 AS_XARCH      = -xarch=v9v
172 COPTIMIZE     = -xO3
173 CCMODE        = -Xa

175 CFLAGS        = -xchip=ultra $(CCABS32) $(CCREGSYM)
176 CFLAGS        += $(CC_XARCH)
177 CFLAGS        += $(COPTIMIZE)
178 CFLAGS        += $(EXTRA_CFLAGS)
179 CFLAGS        += $(XAOPT)
180 CFLAGS        += $(INLINES) -D_ASM_INLINES
181 CFLAGS        += $(CCMODE)
182 CFLAGS        += $(SPACEFLAG)
183 CFLAGS        += $(CERRWARN)
184 CFLAGS        += $(CTF_FLAGS_$(CLASS))
185 CFLAGS        += $(C99MODE)
186 CFLAGS        += $(CCUNBOUND)
187 CFLAGS        += $(CCNOAUTOINLINE)
188 CFLAGS        += $(CCSTATICSYM)
189 CFLAGS        += $(CC32BITCALLERS)
190 CFLAGS        += $(IROPTFLAG)
191 CFLAGS        += $(CGLOBALSTATIC)

```

```

192 CFLAGS        += -xregs=no%float
193 CFLAGS        += -xstrconst
194 CFLAGS        += $(CSOURCEDEBUGFLAGS)
195 CFLAGS        += $(CUSERFLAGS)

197 CPPFLAGS     += -DGLREG

199 ASFLAGS      += $(AS_XARCH) -DGLREG

201 AS_INC_PATH  += -I$(DSF_DIR)/$(OBJS_DIR)

203 LINT_KMODS   += $(GENUNIX_KMODS)

205 LINT_DEFS    = -m64

207 #
208 #      The following must be defined for all implementations:
209 #
210 #      MAPFILE:          ld mapfile for the build of kernel/unix.
211 #      MODSTUBS:        Module stubs source file.
212 #      GENCONST_SRC:    genconst.c
213 #      OFFSETS:         offsets.in
214 #      PLATFORM_OFFSETS: Platform specific mach_offsets.in
215 #      FDOFFSETS:       fd_offsets.in
216 #
217 MAPFILE      = $(UTSBASE)/sun4/conf/Mapfile
218 MODSTUBS     = $(UTSBASE)/sparc/ml/modstubs.s
219 GENCONST_SRC = $(UTSBASE)/sun4/ml/genconst.c
220 OFFSETS      = $(UTSBASE)/sun4/ml/offsets.in
221 PLATFORM_OFFSETS = $(UTSBASE)/sun4v/ml/mach_offsets.in
222 FDOFFSETS    = $(UTSBASE)/sun/io/fd_offsets.in

224 #
225 #      Define the actual specific platforms
226 #
228 MACHINE_DEFS = -D$(PLATFORM) -D_MACHDEP -DSFMMU
229 MACHINE_DEFS += -DMAX_MEM_NODES=8

231 #
232 #      Software workarounds for hardware "features"
233 #
235 include $(UTSBASE)/$(PLATFORM)/Makefile.workarounds

237 #
238 #      Debugging level
239 #
240 #      Special knowledge of which special debugging options effect which
241 #      file is used to optimize the build if these flags are changed.
242 #
243 #      XXX: The above could possibly be done for more flags and files, but
244 #      is left as an experiment to the interested reader. Be forewarned,
245 #      that excessive use could lead to maintenance difficulties.
246 #
247 #      Note: kslicc can be enabled for the sun4v, but is disabled by default
248 #      in all cases.
249 #

251 DEBUG_DEFS_OBJ64 =
252 DEBUG_DEFS_DBG64 = -DDEBUG
253 DEBUG_DEFS        = $(DEBUG_DEFS_$(BUILD_TYPE))

255 DEBUG_COND_OBJ64 = $(POUND_SIGN)
256 DEBUG_COND_DBG64 :sh = echo \\043

```

```

257 IF_DEBUG_OBJ          = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/
259 $(IF_DEBUG_OBJ)trap.o      :=      DEBUG_DEFS      += -DTRAPDEBUG
260 $(IF_DEBUG_OBJ)mach_trap.o :=      DEBUG_DEFS      += -DTRAPDEBUG
261 $(IF_DEBUG_OBJ)syscall_trap.o :=    DEBUG_DEFS      += -DSYSCALLTRACE
262 $(IF_DEBUG_OBJ)clock.o     :=      DEBUG_DEFS      += -DKSLICE=0

264 IF_TRAPTRACE_OBJ = $(IF_DEBUG_OBJ)
265 # comment this out for a non-debug kernel with TRAPTRACE
266 #IF_TRAPTRACE_OBJ = $(OBJS_DIR)/

268 $(IF_TRAPTRACE_OBJ)mach_locore.o :=      DEBUG_DEFS      += -DTRAPTRACE
269 $(IF_TRAPTRACE_OBJ)mlsetup.o     :=      DEBUG_DEFS      += -DTRAPTRACE
270 $(IF_TRAPTRACE_OBJ)syscall_trap.o :=    DEBUG_DEFS      += -DTRAPTRACE
271 $(IF_TRAPTRACE_OBJ)startup.o     :=    DEBUG_DEFS      += -DTRAPTRACE
272 $(IF_TRAPTRACE_OBJ)mach_startup.o :=   DEBUG_DEFS      += -DTRAPTRACE
273 $(IF_TRAPTRACE_OBJ)mp_startup.o  :=    DEBUG_DEFS      += -DTRAPTRACE
274 $(IF_TRAPTRACE_OBJ)cpu_states.o  :=    DEBUG_DEFS      += -DTRAPTRACE
275 $(IF_TRAPTRACE_OBJ)mach_cpu_states.o := DEBUG_DEFS      += -DTRAPTRACE
276 $(IF_TRAPTRACE_OBJ)interrupt.o   :=    DEBUG_DEFS      += -DTRAPTRACE
277 $(IF_TRAPTRACE_OBJ)mach_interrupt.o := DEBUG_DEFS      += -DTRAPTRACE
278 $(IF_TRAPTRACE_OBJ)sfmmu_asm.o   :=    DEBUG_DEFS      += -DTRAPTRACE
279 $(IF_TRAPTRACE_OBJ)trap_table.o  :=   DEBUG_DEFS      += -DTRAPTRACE
280 $(IF_TRAPTRACE_OBJ)xc.o          :=    DEBUG_DEFS      += -DTRAPTRACE
281 $(IF_TRAPTRACE_OBJ)mach_xc.o     :=    DEBUG_DEFS      += -DTRAPTRACE
282 $(IF_TRAPTRACE_OBJ)wbuf.o        :=    DEBUG_DEFS      += -DTRAPTRACE
283 $(IF_TRAPTRACE_OBJ)trap.o        :=    DEBUG_DEFS      += -DTRAPTRACE
284 $(IF_TRAPTRACE_OBJ)mach_trap.o   :=   DEBUG_DEFS      += -DTRAPTRACE
285 $(IF_TRAPTRACE_OBJ)x_call.o      :=    DEBUG_DEFS      += -DTRAPTRACE

287 # Comment these out if you don't want dispatcher lock statistics.

289 #$(IF_DEBUG_OBJ)lock_prim.o      := DEBUG_DEFS      += -DDISP_LOCK_STATS
290 #$(IF_DEBUG_OBJ)disp.o          := DEBUG_DEFS      += -DDISP_LOCK_STATS

292 # Comment these out if you don't want dispatcher debugging

294 #$(IF_DEBUG_OBJ)lock_prim.o      := DEBUG_DEFS      += -DDISP_DEBUG

296 #
297 #   Collect the preprocessor definitions to be associated with *all*
298 #   files.
299 #
300 ALL_DEFS          = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
301                   $(OPTION_DEFS)
302 GENCONST_DEFS    = $(MACHINE_DEFS) $(OPTION_DEFS)

304 #
305 # ----- TRANSITIONAL SECTION -----
306 #

308 #
309 #   Not everything which *should* be a module is a module yet. The
310 #   following is a list of such objects which are currently part of
311 #   the base kernel but should soon become kmods.
312 #
313 MACH_NOT_YET_KMODS = $(AUTOCONF_OBJS)

315 #
316 # ----- END OF TRANSITIONAL SECTION -----
317 #

319 #
320 #   The kernels modules which are "implementation architecture"
321 #   specific for this machine are enumerated below. Note that most
322 #   of these modules must exist (in one form or another) for each

```

```

323 #   architecture.
324 #
325 #   Common Drivers (usually pseudo drivers) (/kernel/drv):
326 #
327 #
328 #
329 #   Machine Specific Driver Modules (/kernel/drv):
330 #
331 DRV_KMODS      += bge
332 DRV_KMODS      += cnex
333 DRV_KMODS      += cpc
334 DRV_KMODS      += drctl
335 DRV_KMODS      += ds_pri
336 DRV_KMODS      += ds_smp
337 DRV_KMODS      += ebus
338 DRV_KMODS      += fpc
339 DRV_KMODS      += glvc
340 DRV_KMODS      += mdesc
341 DRV_KMODS      += niumx
342 DRV_KMODS      += ntwdt
343 DRV_KMODS      += nxge
344 DRV_KMODS      += n2piupc
345 DRV_KMODS      += iospc
346 DRV_KMODS      += n2rng
347 DRV_KMODS      += px
348 DRV_KMODS      += qcn
349 DRV_KMODS      += rootnex
350 DRV_KMODS      += su
351 DRV_KMODS      += tpm
352 DRV_KMODS      += trapstat
353 DRV_KMODS      += vcc
354 DRV_KMODS      += vdc
355 DRV_KMODS      += vds
356 DRV_KMODS      += vldc
357 DRV_KMODS      += vlds
358 DRV_KMODS      += vnet
359 DRV_KMODS      += vnex
360 DRV_KMODS      += vsw

362 $(CLOSED_BUILD)CLOSED_DRV_KMODS += bmc
363 $(CLOSED_BUILD)CLOSED_DRV_KMODS += memtest
364 $(CLOSED_BUILD)CLOSED_DRV_KMODS += ncp
365 $(CLOSED_BUILD)CLOSED_DRV_KMODS += n2cpc

367 #
368 #   Exec Class Modules (/kernel/exec):
369 #
370 EXEC_KMODS      +=

372 #
373 #   Scheduling Class Modules (/kernel/sched):
374 #
375 SCHED_KMODS     +=

377 #
378 #   File System Modules (/kernel/fs):
379 #
380 FS_KMODS        +=

382 #
383 #   Streams Modules (/kernel/strmod):
384 #
385 #   STRMOD_KMODS += kb

387 #
388 #   'System' Modules (/kernel/sys):

```



```
389 #
390 SYS_KMODS      +=

392 #
393 #   'User' Modules (/kernel/misc):
394 #
395 MISC_KMODS      += bootdev
396 MISC_KMODS      += dr_cpu
397 MISC_KMODS      += dr_io
398 MISC_KMODS      += dr_mem
399 MISC_KMODS      += ds
400 MISC_KMODS      += fault_iso
401 MISC_KMODS      += ldc
402 MISC_KMODS      += obpsym
403 MISC_KMODS      += platmod
404 MISC_KMODS      += platsvc
405 MISC_KMODS      += vis
406 MISC_KMODS      += pcie

408 #   md5 optimized for Niagara
409 #
410 MISC_KMODS      += md5

412 #
413 #   Brand modules
414 #
415 BRAND_KMODS     += snl_brand s10_brand

417 #
418 #   Software Cryptographic Providers (/kernel/crypto):
419 #
420 CRYPTO_KMODS    += arcfour

422 #
423 #   generic-unix module (/kernel/genunix):
424 #
425 GENUNIX_KMODS   += genunix

427 #   'User' "Modules" excluded from the Full Kernel lint target:
428 #
429 $(CLOSED_BUILD)CLOSED_NLMISC_KMODS      += forthdebug

431 #
432 #   Modules eXcluded from the product:
433 #
434 XMODS           +=

436 #
437 #   cpu modules
438 #
439 CPU_KMODS       += generic niagara niagara2 vfalls kt

441 LINT_CPU_KMODS += generic

443 #
444 #   Performance Counter BackEnd Modules (/usr/kernel/pcbe):
445 #
446 PCBE_KMODS      += niagara_pcbe
447 PCBE_KMODS      += niagara2_pcbe
448 PCBE_KMODS      += vfalls_pcbe
449 PCBE_KMODS      += kt_pcbe
```