

new/usr/src/uts/i86pc/Makefile.i86pc

1

```
*****
9085 Sun Nov 10 09:06:19 2013
new/usr/src/uts/i86pc/Makefile.i86pc
*** NO COMMENTS ***
*****
1 #
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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 #
28 #
29 # This makefile contains the common definitions for the i86pc unix
30 # and all i86pc implementation architecture dependent modules.
31 #
32 #
33 #
34 # Machine type (implementation architecture):
35 #
36 PLATFORM = i86pc
37 #
38 #
39 # uname -m value
40 #
41 UNAME_M = $(PLATFORM)
42 #
43 #
44 # Definitions for the platform-specific /platform directories.
45 #
46 # IMPLEMENTATIONS is used to designate i86pc machines which have
47 # platform specific modules. All code specific to a given implementation
48 # resides in the appropriately named subdirectory. This requires
49 # these platforms to have their own Makefiles to define ROOT_PLAT_DIRS,
50 # USR_PLAT_DIRS, etc.
51 #
52 IMPLEMENTATIONS = i86hvm
53 #
54 #
55 # Everybody needs to know how to build modstubs.o and to locate unix.o
56 #
57 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
58 GENLIB_DIR = $(UTSBASE)/intel/genunix
59 MODSTUBS_DIR = $(UNIX_DIR)
60 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
61 LINTS_DIR = $(OBJS_DIR)
```

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```
62 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
63 GEN_LINT_LIB_DIR = $(UTSBASE)/intel/lint-libs/$(OBJS_DIR)
64 #
65 LINT32_DIRS = $(LINT32_BUILDS:%=$(UTSBASE)/$(PLATFORM)/lint-libs/%)
66 LINT32_FILES = $(LINT32_DIRS:%=%/llib-l$(MODULE).ln)
67 #
68 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
69 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so
70 #
71 SYM_MOD = $(OBJS_DIR)/unix.sym
72 #
73 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
74 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
75 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so
76 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
77 DBOOT_LINT_LIB = $(LINT_LIB_DIR)/llib-lldboot.ln
78 GEN_LINT_LIB = $(GEN_LINT_LIB_DIR)/llib-lgenunix.ln
79 #
80 #
81 # Include the makefiles which define build rule templates, the
82 # collection of files per module, and a few specific flags. Note
83 # that order is significant, just as with an include path. The
84 # first build rule template which matches the files name will be
85 # used. By including these in order from most machine dependent
86 # to most machine independent, we allow a machine dependent file
87 # to be used in preference over a machine independent version
88 # (Such as a machine specific optimization, which preserves the
89 # interfaces.)
90 #
91 include $(UTSBASE)/$(PLATFORM)/Makefile.files
92 include $(UTSBASE)/intel/Makefile.files
93 include $(UTSBASE)/common/Makefile.files
94 #
95 include $(UTSTREE)/$(PLATFORM)/Makefile.files
96 include $(UTSTREE)/intel/Makefile.files
97 include $(UTSTREE)/common/Makefile.files
98 #
99 #
100 include $(UTSBASE)/Makefile.uts
101 #
102 #
103 # Define supported builds
104 #
105 DEF_BUILDS = $(DEF_BUILDS64) $(DEF_BUILDS32)
106 ALL_BUILDS = $(ALL_BUILDS64) $(ALL_BUILDS32)
107 #
108 #
109 # x86 or amd64 inline templates
110 #
111 INLINES_32 = $(UTSBASE)/intel/ia32/ml/ia32.il \
112 $(UTSBASE)/$(PLATFORM)/ml/ia32.il
113 INLINES_64 = $(UTSBASE)/intel/amd64/ml/amd64.il \
114 $(UTSBASE)/$(PLATFORM)/ml/amd64.il
115 INLINES += $(INLINES_$(CLASS))
116 #
117 #
118 # kernel-specific optimizations; override default in Makefile.master
119 #
120 #
121 CFLAGS_XARCH_32 = $(i386_CFLAGS)
122 CFLAGS_XARCH_64 = $(amd64_CFLAGS)
123 CFLAGS_XARCH = $(CFLAGS_XARCH_$(CLASS))
```

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

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

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

142 ASFLAGS          += $(ASFLAGS_XARCH)

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

146 #
147 #   The following must be defined for all implementations:
148 #
149 #   MAPFILE:      ld mapfile for the build of kernel/unix.
150 #   MODSTUBS:    Module stubs source file.
151 #   GENASSYM_SRC: genassym.c
152 #
153 MAPFILE          = $(UTSBASE)/$(PLATFORM)/conf/Mapfile
154 MODSTUBS         = $(UTSBASE)/intel/ia32/ml/modstubs.s
155 GENASSYM_SRC     = $(UTSBASE)/$(PLATFORM)/ml/genassym.c
156 OFFSETS_SRC     = $(UTSBASE)/$(PLATFORM)/ml/offsets.in
157 PLATFORM_OFFSETS_32 = $(UTSBASE)/$(PLATFORM)/ml/mach_offsets.in
158 PLATFORM_OFFSETS_64 = $(UTSBASE)/intel/amd64/ml/mach_offsets.in
159 PLATFORM_OFFSETS_SRC = $(PLATFORM_OFFSETS_$(CLASS))
160 KDI_OFFSETS_SRC = $(UTSBASE)/intel/kdi/kdi_offsets.in

162 #
163 #   Define the actual specific platforms
164 #
165 MACHINE_DEFS     = -D$(PLATFORM) -D_MACHDEP

167 #
168 #   Software workarounds for hardware "features"
169 #
171 include $(UTSBASE)/$(PLATFORM)/Makefile.workarounds

173 #
174 #   Debugging level
175 #
176 #   Special knowledge of which special debugging options effect which
177 #   file is used to optimize the build if these flags are changed.
178 #
179 #   XXX: The above could possibly be done for more flags and files, but
180 #   is left as an experiment to the interested reader. Be forewarned,
181 #   that excessive use could lead to maintenance difficulties.
182 #
183 DEBUG_DEFS_OBJ32 =
184 DEBUG_DEFS_DBG32 = -DDEBUG
185 DEBUG_DEFS_OBJ64 =
186 DEBUG_DEFS_DBG64 = -DDEBUG
187 DEBUG_DEFS       = $(DEBUG_DEFS_$(BUILD_TYPE))

189 DEBUG_COND_OBJ32 = $(POUND_SIGN)
190 DEBUG_COND_DBG32 =

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191 DEBUG_COND_OBJ64 = $(POUND_SIGN)
192 DEBUG_COND_DBG64 =
193 IF_DEBUG_OBJ     = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

195 $(IF_DEBUG_OBJ)trap.o      := DEBUG_DEFS += -DTRAPDEBUG -DTRAPTRACE
196 $(IF_DEBUG_OBJ)syscall_asm.o := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE
197 $(IF_DEBUG_OBJ)syscall_asm_amd64.o := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE
198 $(IF_DEBUG_OBJ)fast_trap_asm.o := DEBUG_DEFS += -DTRAPTRACE
199 $(IF_DEBUG_OBJ)interrupt.o  := DEBUG_DEFS += -DTRAPTRACE
200 $(IF_DEBUG_OBJ)intr.o      := DEBUG_DEFS += -DTRAPTRACE
201 $(IF_DEBUG_OBJ)locore.o    := DEBUG_DEFS += -DTRAPTRACE
202 $(IF_DEBUG_OBJ)mp_startup.o := DEBUG_DEFS += -DTRAPTRACE
203 $(IF_DEBUG_OBJ)machdep.o   := DEBUG_DEFS += -DTRAPTRACE
204 $(IF_DEBUG_OBJ)exception.o := DEBUG_DEFS += -DTRAPTRACE
205 $(IF_DEBUG_OBJ)x_call.o    := DEBUG_DEFS += -DTRAPTRACE
206 $(IF_DEBUG_OBJ)mp_call.o   := DEBUG_DEFS += -DTRAPTRACE
207 $(IF_DEBUG_OBJ)cbe.o       := DEBUG_DEFS += -DTRAPTRACE

209 #
210 #   Collect the preprocessor definitions to be associated with *all*
211 #   files.
212 #
213 ALL_DEFS = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
214            $(OPTION_DEFS)
215 GENASSYM_DEFS = $(MACHINE_DEFS) $(OPTION_DEFS) \
216                -_gcc=-fno-eliminate-unused-debug-symbols \
217                -_gcc=-fno-eliminate-unused-debug-types

219 #
220 # ----- TRANSITIONAL SECTION -----
221 #
222 #
223 #
224 #   Not everything which *should* be a module is a module yet. The
225 #   following is a list of such objects which are currently part of
226 #   the base kernel but should soon become kmods.
227 #
228 #   XXX: $(KMACCT_OBJS) is neither in the MT kernel nor was it ever
229 #   made into a module. If it is made MT safe before being made
230 #   into a module, it should be added to this list. It was in
231 #   this list pre ON-4.0.
232 #
233 #
234 MACH_NOT_YET_KMODS = $(AUTOCONF_OBJS)

236 #
237 # ----- END OF TRANSITIONAL SECTION -----
238 #
239 #
240 #
241 #   The kernels modules which are "implementation architecture"
242 #   specific for this machine are enumerated below. Note that most
243 #   of these modules must exist (in one form or another) for each
244 #   architecture.
245 #
246 #   Machine Specific Driver Modules (/kernel/drv)
247 #   DRV_KMODS are built both 32-bit and 64-bit
248 #   DRV_KMODS_32 are built only 32-bit
249 #   DRV_KMODS_64 are built only 64-bit
250 #
251 DRV_KMODS += rootnexus
252 DRV_KMODS += isa
253 DRV_KMODS += pcplusmp
254 DRV_KMODS += apix
255 DRV_KMODS += cpc
256 DRV_KMODS += pci

```

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

268 DRV_KMODS      += cpudrv

271 #
272 # Platform Power Modules
273 #
274 DRV_KMODS      += ppm acpippm

276 #
277 # CPU Modules
278 #
279 CPU_KMODS      += amd_opteron
280 CPU_KMODS      += generic_cpu
281 CPU_KMODS      += authenticamd
282 CPU_KMODS      += genuineintel

284 #
285 # Exec Class Modules (/kernel/exec):
286 #
287 EXEC_KMODS     +=

289 #
290 # Scheduling Class Modules (/kernel/sched):
291 #
292 SCHED_KMODS    +=

294 #
295 # File System Modules (/kernel/fs):
296 #
297 FS_KMODS       +=

299 #
300 # Streams Modules (/kernel/strmod):
301 #
302 STRMOD_KMODS   +=

304 #
305 # 'System' Modules (/kernel/sys):
306 #
307 SYS_KMODS      +=

309 #
310 # 'Misc' Modules (/kernel/misc):
311 #
312 MISC_KMODS     += gfx_private pcie
313 MISC_KMODS     += acpidev
314 MISC_KMODS     += drmach_acpi

316 #
317 # 'Dacf' modules (/kernel/dacf)
318 #
319 DACF_KMODS     += consconfig_dacf

321 #
322 # 'Mach' Modules (/kernel/mach):
```

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```
323 #
324 MACH_KMODS     += uppc

326 #
327 # CPR Misc Module.
328 #
329 MISC_KMODS     += cpr
```

new/usr/src/uts/i86pc/Makefile.targ

1

```
*****
1384 Sun Nov 10 09:06:19 2013
new/usr/src/uts/i86pc/Makefile.targ
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
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17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # uts/i86pc/Makefile.targ
24 #
25 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26 # Use is subject to license terms.
27 #
28 #pragma ident "%Z%M% %I% %E% SMI"
29 #
30 # This Makefile defines the set of all required, target containing
31 # included Makefiles for the i86pc "implementation architecture".
32 #
33 # Targets for all implementations:
34 #
35 include $(UTSBASE)/Makefile.targ
36 #
37 #
38 # Target set for i86pc (order is not important, as it is with the
39 # isomorphic Makefile.files set).
40 #
41 include $(UTSBASE)/i86pc/Makefile.rules
42 include $(UTSBASE)/intel/Makefile.rules
43 include $(UTSBASE)/common/Makefile.rules
44 include $(UTSTREE)/i86pc/Makefile.rules
45 include $(UTSTREE)/intel/Makefile.rules
46 include $(UTSTREE)/common/Makefile.rules
```

new/usr/src/uts/i86xpv/Makefile.i86xpv

1

```
*****
8900 Sun Nov 10 09:06:19 2013
new/usr/src/uts/i86xpv/Makefile.i86xpv
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
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16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # uts/i86xpv/Makefile.i86xpv
24 # uts/i86xpv/Makefile.i86xpv.shared
25 #
26 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
27 # Use is subject to license terms.
28 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
29 #
30 #
31 # This makefile contains the common definitions for the i86xpv unix
32 # and all i86xpv implementation architecture dependent modules.
33 #
34 #
35 #
36 # Machine type (implementation architecture):
37 #
38 PLATFORM = i86xpv
39 #
40 #
41 # uname -m value
42 #
43 UNAME_M = i86pc
44 #
45 #
46 # Everybody needs to know how to build modstubs.o and to locate unix.o
47 #
48 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
49 GENLIB_DIR = $(UTSBASE)/intel/genunix
50 MODSTUBS_DIR = $(UNIX_DIR)
51 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
52 LINTS_DIR = $(OBJS_DIR)
53 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
54 GEN_LINT_LIB_DIR = $(UTSBASE)/intel/lint-libs/$(OBJS_DIR)
55 #
56 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
57 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so
58 #
59 SYM_MOD = $(OBJS_DIR)/unix.sym
```

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```
61 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
62 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
63 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so
64 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
65 DBOOT_LINT_LIB = $(LINT_LIB_DIR)/llib-ldboot.ln
66 GEN_LINT_LIB = $(GEN_LINT_LIB_DIR)/llib-lgenunix.ln
67 #
68 LINT32_DIRS = $(LINT32_BUILDS:%=$(UTSBASE)/$(PLATFORM)/lint-libs/%)
69 LINT32_FILES = $(LINT32_DIRS:%=%/llib-l$(MODULE).ln)
70 #
71 #
72 # Include the makefiles which define build rule templates, the
73 # collection of files per module, and a few specific flags. Note
74 # that order is significant, just as with an include path. The
75 # first build rule template which matches the files name will be
76 # used. By including these in order from most machine dependent
77 # to most machine independent, we allow a machine dependent file
78 # to be used in preference over a machine independent version
79 # (Such as a machine specific optimization, which preserves the
80 # interfaces.)
81 #
82 include $(UTSBASE)/$(PLATFORM)/Makefile.files
83 include $(UTSBASE)/intel/Makefile.files
84 include $(UTSBASE)/common/Makefile.files
85 #
86 include $(UTSTREE)/$(PLATFORM)/Makefile.files
87 include $(UTSTREE)/intel/Makefile.files
88 include $(UTSTREE)/common/Makefile.files
89 #
90 #
91 include $(UTSBASE)/Makefile.uts
92 #
93 #
94 # Define supported builds
95 #
96 DEF_BUILDS = $(DEF_BUILDS64) $(DEF_BUILDS32)
97 ALL_BUILDS = $(ALL_BUILDS64) $(ALL_BUILDS32)
98 #
99 #
100 # x86 or amd64 inline templates
101 #
102 INLINES_32 = $(UTSBASE)/intel/ia32/ml/ia32.il \
103 $(UTSBASE)/$(PLATFORM)/ml/ia32.il
104 INLINES_64 = $(UTSBASE)/intel/amd64/ml/amd64.il \
105 $(UTSBASE)/$(PLATFORM)/ml/amd64.il
106 INLINES += $(INLINES_$(CLASS))
107 #
108 #
109 # kernel-specific optimizations; override default in Makefile.master
110 #
111 #
112 CFLAGS_XARCH_32 = $(i386_CFLAGS)
113 CFLAGS_XARCH_64 = $(amd64_CFLAGS)
114 CFLAGS_XARCH = $(CFLAGS_XARCH_$(CLASS))
115 #
116 COPTFLAG_32 = $(COPTFLAG)
117 COPTFLAG_64 = $(COPTFLAG64)
118 COPTIMIZE = $(COPTFLAG_$(CLASS))
119 #
120 CFLAGS = $(CFLAGS_XARCH)
121 CFLAGS += $(COPTIMIZE)
122 CFLAGS += $(INLINES) -D_ASM_INLINES
123 CFLAGS += $(CCMODE)
```

```

124 CFLAGS          += $(SPACEFLAG)
125 CFLAGS          += $(CCUNBOUND)
126 CFLAGS          += $(CFLAGS_uts)

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

132 ASFLAGS        += $(ASFLAGS_XARCH)

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

136 #
137 #       The following must be defined for all implementations:
138 #
139 #       MAPFILE:      ld mapfile for the build of kernel/unix.
140 #       MODSTUBS:    Module stubs source file.
141 #       GENASSYM_SRC: genassym.c

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

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

154 #
155 #       Define the actual specific platforms
156 #
157 MACHINE_DEFS      = -D_$(PLATFORM) -D_xpv -D_MACHDEP

159 #
160 #       Software workarounds for hardware "features"
161 #

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

165 #
166 #       Debugging level
167 #
168 #       Special knowledge of which special debugging options effect which
169 #       file is used to optimize the build if these flags are changed.
170 #
171 #       XXX: The above could possibly be done for more flags and files, but
172 #       is left as an experiment to the interested reader. Be forewarned,
173 #       that excessive use could lead to maintenance difficulties.
174 #
175 DEBUG_DEFS_OBJ32 =
176 DEBUG_DEFS_DBG32 = -DDEBUG
177 DEBUG_DEFS_OBJ64 =
178 DEBUG_DEFS_DBG64 = -DDEBUG
179 DEBUG_DEFS        = $(DEBUG_DEFS_$(BUILD_TYPE))

181 DEBUG_COND_OBJ32 = $(POUND_SIGN)
182 DEBUG_COND_DBG32 =
183 DEBUG_COND_OBJ64 = $(POUND_SIGN)
184 DEBUG_COND_DBG64 =
185 IF_DEBUG_OBJ     = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

187 $(IF_DEBUG_OBJ)trap.o          := DEBUG_DEFS += -DTRAPDEBUG -DTRAPTRACE
188 $(IF_DEBUG_OBJ)syscall_asm.o   := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE
189 $(IF_DEBUG_OBJ)syscall_asm_amd64.o := DEBUG_DEFS += -DSYSCALLTRACE -DTRAPTRACE

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

203 #
204 #       Collect the preprocessor definitions to be associated with *all*
205 #       files.
206 #
207 ALL_DEFS        = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
208                  $(OPTION_DEFS)
209 GENASSYM_DEFS   = $(MACHINE_DEFS) $(OPTION_DEFS) \
210                  _gcc=-fno-eliminate-unused-debug-symbols \
211                  _gcc=-fno-eliminate-unused-debug-types

213 #
214 # ----- TRANSITIONAL SECTION -----
215 #

217 #
218 #       Not everything which *should* be a module is a module yet. The
219 #       following is a list of such objects which are currently part of
220 #       the base kernel but should soon become kmods.
221 #
222 #       XXX: $(KMACCT_OBJS) is neither in the MT kernel nor was it ever
223 #       made into a module. If it is made MT safe before being made
224 #       into a module, it should be added to this list. It was in
225 #       this list pre ON-4.0.
226 #
227 #
228 MACH_NOT_YET_KMODS = $(AUTOCONF_OBJS)

230 #
231 # ----- END OF TRANSITIONAL SECTION -----
232 #

234 #
235 #       The kernels modules which are "implementation architecture"
236 #       specific for this machine are enumerated below. Note that most
237 #       of these modules must exist (in one form or another) for each
238 #       architecture.
239 #
240 #       Machine Specific Driver Modules (/kernel/drv):
241 #       DRV_KMODS are built both 32-bit and 64-bit
242 #       DRV_KMODS_32 are built only 32-bit
243 #       DRV_KMODS_64 are built only 64-bit
244 #

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

```

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

270 #
271 #      CPU Modules
272 #
273 CPU_KMODS        += generic_cpu
274 CPU_KMODS        += amd_opteron
275 CPU_KMODS        += genuineintel
276 CPU_KMODS        += authenticamd

278 #
279 #      Exec Class Modules (/kernel/exec):
280 #
281 EXEC_KMODS       +=

283 #
284 #      Scheduling Class Modules (/kernel/sched):
285 #
286 SCHED_KMODS     +=

288 #
289 #      File System Modules (/kernel/fs):
290 #
291 FS_KMODS         +=

293 #
294 #      Streams Modules (/kernel/strmod):
295 #
296 STRMOD_KMODS    +=

298 #
299 #      'System' Modules (/kernel/sys):
300 #
301 SYS_KMODS        +=

303 #
304 #      'Misc' Modules (/kernel/misc):
305 #
306 MISC_KMODS       += xpv_autoconfig gfx_private xnb

308 #
309 #      'Dacf' modules (/kernel/dacf)
310 DACF_KMODS       += consconfig_dacf

312 #
313 #      'Mach' Modules (/kernel/mach):
314 #
315 MACH_KMODS       += xpv_psm xpv_uppc

317 #
318 #      'TOD' modules (/platform/.../kernel/tod):
319 #
320 TOD_KMODS        += xpvtod
```

new/usr/src/uts/i86xpv/Makefile.targ

1

\*\*\*\*\*

1339 Sun Nov 10 09:06:20 2013

new/usr/src/uts/i86xpv/Makefile.targ

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

```
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").
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7 #
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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 #
23 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 #pragma ident "%Z%M% %I% %E% SMI"
27 #
28 # This Makefile defines the set of all required, target containing
29 # included Makefiles for the i86xpv "implementation architecture".
30 #
31 # Targets for all implementations:
32 #
33 include $(UTSBASE)/Makefile.targ
34 #
35 #
36 # Target set for i86xpv (order is not important, as it is with the
37 # isomorphic Makefile.files set).
38 #
39 include $(UTSBASE)/i86xpv/Makefile.rules
40 include $(UTSBASE)/intel/Makefile.rules
41 include $(UTSBASE)/common/Makefile.rules
42 include $(UTSTREE)/i86xpv/Makefile.rules
43 include $(UTSTREE)/intel/Makefile.rules
44 include $(UTSTREE)/common/Makefile.rules
```



new/usr/src/uts/intel/Makefile.intel

1

```
*****
16009 Sun Nov 10 09:06:20 2013
new/usr/src/uts/intel/Makefile.intel
*** NO COMMENTS ***
*****
1 # CDDL HEADER START
2 #
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4 # Common Development and Distribution License (the "License").
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7 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
8 # or http://www.opensolaris.org/os/licensing.
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10 # and limitations under the License.
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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 #
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.
25 #
26 # This makefile contains the common definitions for all intel
27 # implementation architecture independent modules.
28 #
30 #
31 # Machine type (implementation architecture):
32 #
33 PLATFORM = i86pc
35 #
36 # Everybody needs to know how to build modstubs.o and to locate unix.o.
37 # Note that unix.o must currently be selected from among the possible
38 # "implementation architectures". Note further, that unix.o is only
39 # used as an optional error check for undefines so (theoretically)
40 # any "implementation architectures" could be used. We choose i86pc
41 # because it is the reference port.
42 #
43 UNIX_DIR = $(UTSBASE)/i86pc/unix
44 GENLIB_DIR = $(UTSBASE)/intel/genunix
45 IPDRV_DIR = $(UTSBASE)/intel/ip
46 MODSTUBS_DIR = $(UNIX_DIR)
47 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
48 LINTS_DIR = $(OBJS_DIR)
49 LINT_LIB_DIR = $(UTSBASE)/intel/lint-libs/$(OBJS_DIR)
51 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
52 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so
53 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
54 LINT_LIB = $(UTSBASE)/i86pc/lint-libs/$(OBJS_DIR)/llib-lunix.ln
55 GEN_LINT_LIB = $(UTSBASE)/intel/lint-libs/$(OBJS_DIR)/llib-lgenunix.ln
57 #
58 # Include the makefiles which define build rule templates, the
59 # collection of files per module, and a few specific flags. Note
60 # that order is significant, just as with an include path. The
61 # first build rule template which matches the files name will be
```

new/usr/src/uts/intel/Makefile.intel

2

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

```

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

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

136 ASFLAGS          += $(ASFLAGS_XARCH)

138 #
139 #       Define the base directory for installation.
140 #
141 BASE_INS_DIR     = $(ROOT)

143 #
144 #       Debugging level
145 #
146 #       Special knowledge of which special debugging options affect which
147 #       file is used to optimize the build if these flags are changed.
148 #
149 DEBUG_DEFS_OBJ32 =
150 DEBUG_DEFS_DBG32 = -DDEBUG
151 DEBUG_DEFS_OBJ64 =
152 DEBUG_DEFS_DBG64 = -DDEBUG
153 DEBUG_DEFS       = $(DEBUG_DEFS_$(BUILD_TYPE))

155 DEBUG_COND_OBJ32 = $(POUND_SIGN)
156 DEBUG_COND_DBG32 =
157 DEBUG_COND_OBJ64 = $(POUND_SIGN)
158 DEBUG_COND_DBG64 =
159 IF_DEBUG_OBJ     = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

161 $(IF_DEBUG_OBJ)syscall.o      :=      DEBUG_DEFS      += -DSYSCALLTRACE
162 $(IF_DEBUG_OBJ)clock.o       :=      DEBUG_DEFS      += -DKSLICE=1

164 #
165 #       Collect the preprocessor definitions to be associated with *all*
166 #       files.
167 #
168 ALL_DEFS         = $(DEBUG_DEFS) $(OPTION_DEFS)

170 #
171 #       The kernels modules which are "implementation architecture"
172 #       specific for this machine are enumerated below. Note that most
173 #       of these modules must exist (in one form or another) for each
174 #       architecture.
175 #
176 #       Common Drivers (usually pseudo drivers) (/kernel/drv)
177 #       DRV_KMODS are built both 32-bit and 64-bit
178 #       DRV_KMODS_32 are built only 32-bit
179 #       DRV_KMODS_64 are built only 64-bit
180 #
181 DRV_KMODS        += aac
182 DRV_KMODS        += aggr
183 DRV_KMODS        += ahci
184 DRV_KMODS        += amd64_gart
185 DRV_KMODS        += amr
186 DRV_KMODS        += agpgart
187 DRV_KMODS        += srn
188 DRV_KMODS        += agptarget
189 DRV_KMODS        += arn
190 DRV_KMODS        += arp
191 DRV_KMODS        += asy

```

```

192 DRV_KMODS       += ata
193 DRV_KMODS       += ath
194 DRV_KMODS       += atu
195 DRV_KMODS       += audio
196 DRV_KMODS       += audio1575
197 DRV_KMODS       += audio810
198 DRV_KMODS       += audiocmi
199 DRV_KMODS       += audiocmihd
200 DRV_KMODS       += audioemul0k
201 DRV_KMODS       += audioens
202 DRV_KMODS       += audiohd
203 DRV_KMODS       += audioixp
204 DRV_KMODS       += audiols
205 DRV_KMODS       += audiopl6x
206 DRV_KMODS       += audiopci
207 DRV_KMODS       += audiosolo
208 DRV_KMODS       += audiotst
209 DRV_KMODS       += audiovia823x
210 DRV_KMODS_32   += audiovia97
211 DRV_KMODS       += bl
212 DRV_KMODS       += blkdev
213 DRV_KMODS       += bge
214 DRV_KMODS       += bofi
215 DRV_KMODS       += bpf
216 DRV_KMODS       += bridge
217 DRV_KMODS       += bsdbus
218 DRV_KMODS       += bscv
219 DRV_KMODS       += chxge
220 DRV_KMODS       += cxgbe
221 DRV_KMODS       += ntxn
222 DRV_KMODS       += myril0ge
223 DRV_KMODS       += clone
224 DRV_KMODS       += cmdk
225 DRV_KMODS       += cn
226 DRV_KMODS       += conskbd
227 DRV_KMODS       += consms
228 DRV_KMODS       += cpgary3
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       += ipd
255 DRV_KMODS       += ipf
256 DRV_KMODS       += ipnet
257 DRV_KMODS       += ippctl

```

```

258 DRV_KMODS      += ipsecah
259 DRV_KMODS      += ipsecesp
260 DRV_KMODS      += ipw
261 DRV_KMODS      += iwh
262 DRV_KMODS      += iwi
263 DRV_KMODS      += iwk
264 DRV_KMODS      += iwp
265 DRV_KMODS      += iwscn
266 DRV_KMODS      += kb8042
267 DRV_KMODS      += keysock
268 DRV_KMODS      += kssl
269 DRV_KMODS      += kstat
270 DRV_KMODS      += ksyms
271 DRV_KMODS      += kmdb
272 DRV_KMODS      += llcl
273 DRV_KMODS      += lofi
274 DRV_KMODS      += log
275 DRV_KMODS      += logindmux
276 DRV_KMODS      += mega_sas
277 DRV_KMODS      += mc-amd
278 DRV_KMODS      += mm
279 DRV_KMODS      += mouse8042
280 DRV_KMODS      += mpt_sas
281 DRV_KMODS      += mr_sas
282 DRV_KMODS      += mwl
283 DRV_KMODS      += nca
284 DRV_KMODS      += nsmb
285 DRV_KMODS      += nulldriver
286 DRV_KMODS      += nv_sata
287 DRV_KMODS      += nxge
288 DRV_KMODS      += oce
289 DRV_KMODS      += openeep
290 DRV_KMODS      += pci_pci
291 DRV_KMODS      += pcic
292 DRV_KMODS      += pcieb
293 DRV_KMODS      += phymem
294 DRV_KMODS      += pit_beeper
295 DRV_KMODS      += pm
296 DRV_KMODS      += poll
297 DRV_KMODS      += pool
298 DRV_KMODS      += power
299 DRV_KMODS      += pseudo
300 DRV_KMODS      += ptc
301 DRV_KMODS      += ptm
302 DRV_KMODS      += pts
303 DRV_KMODS      += ptsl
304 DRV_KMODS      += qlge
305 DRV_KMODS      += radeon
306 DRV_KMODS      += ral
307 DRV_KMODS      += ramdisk
308 DRV_KMODS      += random
309 DRV_KMODS      += rds
310 DRV_KMODS      += rdsv3
311 DRV_KMODS      += rpcib
312 DRV_KMODS      += rsm
313 DRV_KMODS      += rts
314 DRV_KMODS      += rtw
315 DRV_KMODS      += rum
316 DRV_KMODS      += rwd
317 DRV_KMODS      += rwn
318 DRV_KMODS      += sad
319 DRV_KMODS      += sd
320 DRV_KMODS      += sdhost
321 DRV_KMODS      += sgen
322 DRV_KMODS      += si3124
323 DRV_KMODS      += smbios

```

```

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

372 #
373 # Common code drivers
374 #

376 DRV_KMODS      += afe
377 DRV_KMODS      += atge
378 DRV_KMODS      += bfe
379 DRV_KMODS      += dmfe
380 DRV_KMODS      += e1000g
381 DRV_KMODS      += efe
382 DRV_KMODS      += elxl
383 DRV_KMODS      += hme
384 DRV_KMODS      += mxfe
385 DRV_KMODS      += nge
386 DRV_KMODS      += pcn
387 DRV_KMODS      += rge
388 DRV_KMODS      += rtls
389 DRV_KMODS      += sfe

```

```

390 DRV_KMODS      += amd811ls
391 DRV_KMODS      += igb
392 DRV_KMODS      += ipmi
393 DRV_KMODS      += iprb
394 DRV_KMODS      += ixgbe
395 DRV_KMODS      += vr

397 #
398 # Virtio drivers
399 #

401 # Virtio core
402 DRV_KMODS      += virtio

404 # Virtio block driver
405 DRV_KMODS      += vioblk

407 #
408 #      DTrace and DTrace Providers
409 #
410 DRV_KMODS      += dtrace
411 DRV_KMODS      += fbt
412 DRV_KMODS      += lockstat
413 DRV_KMODS      += profile
414 DRV_KMODS      += sdt
415 DRV_KMODS      += systrace
416 DRV_KMODS      += fasttrap
417 DRV_KMODS      += dcpc

419 #
420 #      I/O framework test drivers
421 #
422 DRV_KMODS      += pshot
423 DRV_KMODS      += gen_drv
424 DRV_KMODS      += tvhCi tphci tclient
425 DRV_KMODS      += emul64

427 #
428 #      Machine Specific Driver Modules (/kernel/drv):
429 #
430 DRV_KMODS      += options
431 DRV_KMODS      += scsi_vhci
432 DRV_KMODS      += pmcs
433 DRV_KMODS      += pmcs8001fw
434 DRV_KMODS      += arcmsr
435 DRV_KMODS      += fcp
436 DRV_KMODS      += fcip
437 DRV_KMODS      += fcsn
438 DRV_KMODS      += fp
439 DRV_KMODS      += qlc
440 DRV_KMODS      += iscsi

442 #
443 #      PCMCIA specific module(s)
444 #
445 DRV_KMODS      += pcs
446 MISC_KMODS     += cardbus

448 #
449 #      SCSI Enclosure Services driver
450 #
451 DRV_KMODS      += ses

453 #
454 #      USB specific modules
455 #

```

```

456 DRV_KMODS      += hid
457 DRV_KMODS      += hwarc hwaic
458 DRV_KMODS      += hubd
459 DRV_KMODS      += uhci
460 DRV_KMODS      += ehci
461 DRV_KMODS      += ohci
462 DRV_KMODS      += usb_mid
463 DRV_KMODS      += usb_ia
464 DRV_KMODS      += scsa2usb
465 DRV_KMODS      += usbprn
466 DRV_KMODS      += ugen
467 DRV_KMODS      += usbser
468 DRV_KMODS      += usbsacm
469 DRV_KMODS      += usbsksp
470 DRV_KMODS      += usbsprl
471 DRV_KMODS      += usb_ac
472 DRV_KMODS      += usb_as
473 DRV_KMODS      += usbskel
474 DRV_KMODS      += usbvc
475 DRV_KMODS      += usbftdi
476 DRV_KMODS      += wusb_df
477 DRV_KMODS      += wusb_ca
478 DRV_KMODS      += usbecm

480 #
481 #      1394 modules
482 #
483 MISC_KMODS     += s1394 sbp2
484 DRV_KMODS      += hci1394 scsa1394
485 DRV_KMODS      += avl1394
486 DRV_KMODS      += dcam1394

488 #
489 #      InfiniBand pseudo drivers
490 #
491 DRV_KMODS      += ib ibp eibnx eoib rdsib sdp iser daplt hermon tavor sol_ucma
492 DRV_KMODS      += sol_umad

494 #
495 #      LVM modules
496 #
497 DRV_KMODS      += md
498 MISC_KMODS     += md_stripe md_hotspares md_mirror md_raid md_trans md_notify
499 MISC_KMODS     += md_sp

501 #
502 #      Brand modules
503 #
504 BRAND_KMODS    += snl_brand s10_brand

506 #
507 #      Exec Class Modules (/kernel/exec):
508 #
509 EXEC_KMODS     += elfexec intpexec shbinexec javaexec

511 #
512 #      Scheduling Class Modules (/kernel/sched):
513 #
514 SCHED_KMODS    += IA RT TS RT_DPTBL TS_DPTBL FSS FX FX_DPTBL SDC

516 #
517 #      File System Modules (/kernel/fs):
518 #
519 FS_KMODS       += autofs cachefs ctfs dcfs dev devfs fdfs fifofs hsfs lofs
520 FS_KMODS       += mntfs namefs nfs objfs zfs zut
521 FS_KMODS       += pcfs procfs sockfs specfs tmpfs udfs ufs sharefs

```

```

522 FS_KMODS      += smbfs

524 #
525 #           Streams Modules (/kernel/strmod):
526 #
527 STRMOD_KMODS   += bufmod connld dedump ldterm pckt pfmod pipemod
528 STRMOD_KMODS   += ptem redirmod rpcmod rlmod telmod timod
529 STRMOD_KMODS   += sppsasyn spppcomp
530 STRMOD_KMODS   += tirdwr ttcompat
531 STRMOD_KMODS   += usbkbm
532 STRMOD_KMODS   += usbms
533 STRMOD_KMODS   += usbwcm
534 STRMOD_KMODS   += usb_ah
535 STRMOD_KMODS   += drcompat
536 STRMOD_KMODS   += cryptomod
537 STRMOD_KMODS   += vuid2ps2
538 STRMOD_KMODS   += vuid3ps2
539 STRMOD_KMODS   += vuidm3p
540 STRMOD_KMODS   += vuidm4p
541 STRMOD_KMODS   += vuidm5p

543 #
544 #           'System' Modules (/kernel/sys):
545 #
546 SYS_KMODS      += c2audit
547 SYS_KMODS      += doorfs
548 SYS_KMODS      += exacctsys
549 SYS_KMODS      += inst_sync
550 SYS_KMODS      += kaio
551 SYS_KMODS      += msgsys
552 SYS_KMODS      += pipe
553 SYS_KMODS      += portfs
554 SYS_KMODS      += pset
555 SYS_KMODS      += semsys
556 SYS_KMODS      += shmsys
557 SYS_KMODS      += sysacct
558 SYS_KMODS      += acctctl

560 #
561 #           'Misc' Modules (/kernel/misc)
562 #           MISC_KMODS are built both 32-bit and 64-bit
563 #           MISC_KMODS_32 are built only 32-bit
564 #           MISC_KMODS_64 are built only 64-bit
565 #
566 MISC_KMODS     += ac97
567 MISC_KMODS     += acpica
568 MISC_KMODS     += agpmaster
569 MISC_KMODS     += bignum
570 MISC_KMODS     += bootdev
571 MISC_KMODS     += busra
572 MISC_KMODS     += cmlb
573 MISC_KMODS     += consconfig
574 MISC_KMODS     += ctf
575 MISC_KMODS     += dadk
576 MISC_KMODS     += dcopy
577 MISC_KMODS     += dls
578 MISC_KMODS     += drm
579 MISC_KMODS     += fssnap_if
580 MISC_KMODS     += gda
581 MISC_KMODS     += gld
582 MISC_KMODS     += hidparser
583 MISC_KMODS     += hook
584 MISC_KMODS     += hpcsvc
585 MISC_KMODS     += ibcm
586 MISC_KMODS     += ibdm
587 MISC_KMODS     += ibdma

```

```

588 MISC_KMODS     += ibmf
589 MISC_KMODS     += ibtl
590 MISC_KMODS     += idm
591 MISC_KMODS     += idmap
592 MISC_KMODS     += iomulib
593 MISC_KMODS     += ipc
594 MISC_KMODS     += kbtrans
595 MISC_KMODS     += kcf
596 MISC_KMODS     += kgssapi
597 MISC_KMODS     += kmecch_dummy
598 MISC_KMODS     += kmecch_krb5
599 MISC_KMODS     += ksocket
600 MISC_KMODS     += mac
601 MISC_KMODS     += mii
602 MISC_KMODS     += mwlfw
603 MISC_KMODS     += net80211
604 MISC_KMODS     += nfs_dlboot
605 MISC_KMODS     += nfssrv
606 MISC_KMODS     += neti
607 MISC_KMODS     += pci_autoconfig
608 MISC_KMODS     += pcicfg
609 MISC_KMODS     += pcihp
610 MISC_KMODS     += pcmcia
611 MISC_KMODS     += rpcsec
612 MISC_KMODS     += rpcsec_gss
613 MISC_KMODS     += rsmops
614 MISC_KMODS     += sata
615 MISC_KMODS     += scsi
616 MISC_KMODS     += sda
617 MISC_KMODS     += sol_ofs
618 MISC_KMODS     += spuni
619 MISC_KMODS     += strategy
620 MISC_KMODS     += strplumb
621 MISC_KMODS     += tem
622 MISC_KMODS     += tlimod
623 MISC_KMODS     += usba usba10 usbs49_fw
624 MISC_KMODS     += scsi_vhci_f_sym_hds
625 MISC_KMODS     += scsi_vhci_f_sym
626 MISC_KMODS     += scsi_vhci_f_tpgs
627 MISC_KMODS     += scsi_vhci_f_asym_sun
628 MISC_KMODS     += scsi_vhci_f_tape
629 MISC_KMODS     += scsi_vhci_f_tpgs_tape
630 MISC_KMODS     += fctl
631 MISC_KMODS     += emlxs_fw
632 MISC_KMODS     += qlc_fw_2200
633 MISC_KMODS     += qlc_fw_2300
634 MISC_KMODS     += qlc_fw_2400
635 MISC_KMODS     += qlc_fw_2500
636 MISC_KMODS     += qlc_fw_6322
637 MISC_KMODS     += qlc_fw_8100
638 MISC_KMODS     += hwa1480_fw
639 MISC_KMODS     += uathfw
640 MISC_KMODS     += uwba

642 MISC_KMODS     += klmmod klmops

644 #
645 #           Software Cryptographic Providers (/kernel/crypto):
646 #
647 CRYPTO_KMODS   += aes
648 CRYPTO_KMODS   += arcfour
649 CRYPTO_KMODS   += blowfish
650 CRYPTO_KMODS   += des
651 CRYPTO_KMODS   += ecc
652 CRYPTO_KMODS   += md4
653 CRYPTO_KMODS   += md5

```

```

654 CRYPTO_KMODS      += rsa
655 CRYPTO_KMODS      += sha1
656 CRYPTO_KMODS      += sha2
657 CRYPTO_KMODS      += swrand

659 #
660 #       IP Policy Modules (/kernel/ipp)
661 #
662 IPP_KMODS           += dlcosmk
663 IPP_KMODS           += flowacct
664 IPP_KMODS           += ipgpc
665 IPP_KMODS           += dsccmk
666 IPP_KMODS           += tokenmt
667 IPP_KMODS           += tswtclmt

669 #
670 #       generic-unix module (/kernel/genunix):
671 #
672 GENUNIX_KMODS      += genunix

674 #
675 #       Modules eXcluded from the product:
676 #

678 #
679 #       'Dacf' Modules (/kernel/dacf):
680 #

682 #
683 #       Performance Counter BackEnd modules (/usr/kernel/pcbe)
684 #
685 PCBE_KMODS         += p123_pcbe p4_pcbe opteron_pcbe core_pcbe

687 #
688 #       MAC-Type Plugin Modules (/kernel/mac)
689 #
690 MAC_KMODS           += mac_6to4
691 MAC_KMODS           += mac_ether
692 MAC_KMODS           += mac_ipv4
693 MAC_KMODS           += mac_ipv6
694 MAC_KMODS           += mac_wifi
695 MAC_KMODS           += mac_ib

697 #
698 #       socketmod (kernel/socketmod)
699 #
700 SOCKET_KMODS        += sockpfp
701 SOCKET_KMODS        += socksctp
702 SOCKET_KMODS        += socksdp
703 SOCKET_KMODS        += sockrds
704 SOCKET_KMODS        += ksslf

706 #
707 #       kiconv modules (/kernel/kiconv):
708 #
709 KICONV_KMODS        += kiconv_emea kiconv_ja kiconv_ko kiconv_sc kiconv_tc

711 #
712 #       'Dacf' Modules (/kernel/dacf):
713 #
714 DACF_KMODS          += net_dacf

716 #
717 # Ensure that the variable member of the cpu_t (cpu_m) is defined
718 # for the lint builds so as not to cause lint errors during the
719 # global cross check.

```

```

720 #
721 LINTFLAGS            += -D_MACHDEP -I$(UTSBASE)/i86pc
722 #endif /* ! codereview */

```

new/usr/src/uts/intel/Makefile.targ

1

```
*****
1343 Sun Nov 10 09:06:20 2013
new/usr/src/uts/intel/Makefile.targ
*** NO COMMENTS ***
*****
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # uts/intel/Makefile.targ
24 #
25 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26 # Use is subject to license terms.
27 #
28 #pragma ident "%Z%M% %I% %E% SMI"
29 #
30 # This Makefile defines the set of all required, target containing
31 # included Makefiles for the intel "implementation architecture".
32 #
33 # Targets for all implementations:
34 #
35 include $(UTSBASE)/Makefile.targ
36 #
37 #
38 # Target set for intel (order is not important, as it is with the
39 # isomorphic Makefile.files set).
40 #
41 include $(UTSBASE)/intel/Makefile.rules
42 include $(UTSBASE)/common/Makefile.rules
43 include $(UTSTREE)/intel/Makefile.rules
44 include $(UTSTREE)/common/Makefile.rules
```

```

*****
13322 Sun Nov 10 09:06:20 2013
new/usr/src/uts/sparc/Makefile.sparc
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #

22 # Copyright (c) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
23 # Copyright (c) 2013 Andrew Stormont. All rights reserved.

26 #
27 # This makefile contains the common definitions for all sparc
28 # implementation architecture independent modules.
29 #

31 #
32 # Define supported builds
33 #
34 DEF_BUILDS = $(DEF_BUILDS64)
35 ALL_BUILDS = $(ALL_BUILDS64)

37 #
38 # Everybody needs to know how to build modstubs.o and to locate unix.o.
39 # Note that unix.o must currently be selected from among the possible
40 # "implementation architectures". Note further, that unix.o is only
41 # used as an optional error check for undefines so (theoretically)
42 # any "implementation architectures" could be used. We choose sun4u
43 # because it is the reference port.
44 #
45 UNIX_DIR = $(UTSBASE)/sun4u/unix
46 GENLIB_DIR = $(UTSBASE)/sun4u/genunix
47 IPDRV_DIR = $(UTSBASE)/sparc/ip
48 MODSTUBS_DIR = $(UNIX_DIR)
49 DSF_DIR = $(UNIX_DIR)
50 LINTS_DIR = $(OBJS_DIR)
51 LINT_LIB_DIR = $(UTSBASE)/sparc/lint-libs/$(OBJS_DIR)

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

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

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

```

```

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

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

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

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 $(UTSBASE)/sparc/Makefile.files
84 include $(UTSBASE)/sparc/v9/Makefile.files
85 include $(UTSBASE)/sun/Makefile.files
86 include $(UTSBASE)/common/Makefile.files
85 include $(UTSTREE)/sun/Makefile.files
86 include $(UTSTREE)/common/Makefile.files

88 #
89 # ----- TRANSITIONAL SECTION -----
90 #

92 #
93 # Not everything which *should* be a module is a module yet. The
94 # following is a list of such objects which are currently part of
95 # genunix but which might someday become kmods. This must be
96 # defined before we include Makefile.uts, or else genunix's build
97 # won't be as parallel as we might like.
98 #
99 NOT_YET_KMODS = $(OLDPTY_OBJS) $(PTY_OBJS) $(VCONS_CONF_OBJS) $(MOD_OBJS)

101 #
102 # ----- END OF TRANSITIONAL SECTION -----
103 #
104 # Include machine independent rules. Note that this does not imply
105 # that the resulting module from rules in Makefile.uts is machine
106 # independent. Only that the build rules are machine independent.
107 #
108 include $(UTSBASE)/Makefile.uts

110 #
111 # machine specific optimization, override default in Makefile.master
112 #
113 XARCH_32 = -xarch=v8
114 XARCH_64 = -m64
115 XARCH = $(XARCH_$(CLASS))

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

121 CCMODE = -Xa

123 CFLAGS_32 = -xcg92
124 CFLAGS_64 = -xchip=ultra $(CCABS32) $(CCREGSYM)
125 CFLAGS = $(CFLAGS_$(CLASS))

```



```

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

148 ASFLAGS     += $(XARCH)

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

154 #
155 #   The following must be defined for all implementations:
156 #
157 #   MODSTUBS:      Module stubs source file.
158 #
159 MODSTUBS      = $(UTSBASE)/sparc/ml/modstubs.s

161 #
162 #   Define the actual specific platforms - obviously none.
163 #
164 MACHINE_DEFS   =

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)
183 DEBUG_COND_DBG32 =
184 DEBUG_COND_OBJ64 = $(POUND_SIGN)
185 DEBUG_COND_DBG64 =
186 IF_DEBUG_OBJ     = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/

188 $(IF_DEBUG_OBJ)syscall.o      :=      DEBUG_DEFS      += -DSYSCALLTRACE
189 $(IF_DEBUG_OBJ)clock.o       :=      DEBUG_DEFS      += -DKSLICE=1

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

```

```

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

195 #
196 #   Collect the preprocessor definitions to be associated with *all*
197 #   files.
198 #
199 ALL_DEFS      = $(MACHINE_DEFS) $(DEBUG_DEFS) $(OPTION_DEFS)
200 #
201 #
202 #   The kernels modules which are "implementation architecture"
203 #   specific for this machine are enumerated below. Note that most
204 #   of these modules must exist (in one form or another) for each
205 #   architecture.
206 #
207 #   Common Drivers (usually pseudo drivers) (/kernel/drv):
208 #
209 DRV_KMODS     += aggr arp audio bl blkdev bofi clone cn conskbd consms cpuid
210 DRV_KMODS     += crypto cryptoadm devinfo dump
211 DRV_KMODS     += dtrace fasttrap fbt lockstat profile sdt systrace dcpd
212 DRV_KMODS     += fssnap icmp icmp6 ip ip6 ipnet ipsecah
213 DRV_KMODS     += ipsecesp iptun iwscn keysock kmdb kstat ksyms llc1
214 DRV_KMODS     += lofi
215 DRV_KMODS     += log logindmux kssl mm nca phymem pm poll pool
216 DRV_KMODS     += pseudo ptc ptm pts ptsl ramdisk random rsm rts sad
217 DRV_KMODS     += simnet softmac sPPP sPPPttun sy sysevent sysmsg
218 DRV_KMODS     += spdsock
219 DRV_KMODS     += tcp tcp6 tl tnf ttymux udp udp6 wc winlock zcons
220 DRV_KMODS     += ippctl
221 DRV_KMODS     += dld
222 DRV_KMODS     += ipf
223 DRV_KMODS     += rpcib
224 DRV_KMODS     += dlpistub
225 DRV_KMODS     += vnuc
226 DRV_KMODS     += xge
227 DRV_KMODS     += rds
228 DRV_KMODS     += rdsv3
229 DRV_KMODS     += chxge
230 DRV_KMODS     += smbsrv
231 DRV_KMODS     += vscan
232 DRV_KMODS     += nsmb
233 DRV_KMODS     += fm
234 DRV_KMODS     += nulldriver
235 DRV_KMODS     += bridge trill
236 DRV_KMODS     += bpf
237 DRV_KMODS     += dca

239 #
240 #   Hardware Drivers in common space
241 #
242 #
243 DRV_KMODS     += afe
244 DRV_KMODS     += audio1575
245 DRV_KMODS     += audiooens
246 DRV_KMODS     += audiols
247 DRV_KMODS     += audiopl6x
248 DRV_KMODS     += audiopci
249 DRV_KMODS     += audiotst
250 DRV_KMODS     += e1000g
251 DRV_KMODS     += efe
252 DRV_KMODS     += hxge
253 DRV_KMODS     += mxfe
254 DRV_KMODS     += rge
255 DRV_KMODS     += rtls
256 DRV_KMODS     += sfe
257 DRV_KMODS     += aac

```

```

258 DRV_KMODS      += igb
259 DRV_KMODS      += ixgbe
260 DRV_KMODS      += vr
261 DRV_KMODS      += mr_sas
262 DRV_KMODS      += yge

264 #
265 #       Machine Specific Driver Modules (/kernel/drv):
266 #
267 DRV_KMODS      += audiocs
268 DRV_KMODS      += bge dmfe eri fas hme qfe
269 DRV_KMODS      += openeep options sd ses st
270 DRV_KMODS      += ssd
271 DRV_KMODS      += ecpp
272 DRV_KMODS      += hid hubd ehci ohci uhci usb_mid usb_ia scsa2usb usbprn ugen
273 DRV_KMODS      += usbser usbsacm usbsksp usbsprl
274 DRV_KMODS      += usb_as usb_ac
275 DRV_KMODS      += usbskel
276 DRV_KMODS      += usbvsc
277 DRV_KMODS      += usbftdi
278 DRV_KMODS      += wusb_df hwahc hwarc wusb_ca
279 DRV_KMODS      += usbecm
280 DRV_KMODS      += hcil394 avl394 scsa1394 dcaml394
281 DRV_KMODS      += sbp2
282 DRV_KMODS      += ib ibp eibnx eoib rdsib sdp iser daplt hermon tavor sol_ucma
283 DRV_KMODS      += sol_umad
284 DRV_KMODS      += pci_pci pcieb pcieb_bcm
285 DRV_KMODS      += i8042 kb8042 mouse8042
286 DRV_KMODS      += fcode
287 DRV_KMODS      += mpt_sas
288 DRV_KMODS      += socal
289 DRV_KMODS      += sgen
290 DRV_KMODS      += myril0ge
291 DRV_KMODS      += smp
292 DRV_KMODS      += dad
293 DRV_KMODS      += scsi_vhci
294 DRV_KMODS      += fcp
295 DRV_KMODS      += fcip
296 DRV_KMODS      += fcsn
297 DRV_KMODS      += fp
298 DRV_KMODS      += qlc
299 DRV_KMODS      += qlge
300 DRV_KMODS      += stmf
301 DRV_KMODS      += stmf_sbd
302 DRV_KMODS      += fct
303 DRV_KMODS      += fcoe
304 DRV_KMODS      += fcoet
305 DRV_KMODS      += fcoel
306 DRV_KMODS      += qlt
307 DRV_KMODS      += iscsit
308 DRV_KMODS      += pppt
309 DRV_KMODS      += ncall nsctl sdbc nskern sv
310 DRV_KMODS      += ii rdc rdcsrv rdcstub
311 DRV_KMODS      += iscsi
312 DRV_KMODS      += emlxs
313 DRV_KMODS      += oce
314 DRV_KMODS      += srpt
315 DRV_KMODS      += pmcs
316 DRV_KMODS      += pmcs8001fw

318 #
319 #       I/O framework test drivers
320 #
321 DRV_KMODS      += pshot
322 DRV_KMODS      += gen_drv
323 DRV_KMODS      += tvhci tphci tclient

```

```

324 DRV_KMODS      += emul64

326 #
327 # PCMCIA specific module(s)
328 #
329 DRV_KMODS      += pcs
330 MISC_KMODS     += busra cardbus dada pcmcia
331 DRV_KMODS      += pcic

333 # Add lvm
334 #
335 DRV_KMODS      += md
336 MISC_KMODS     += md_mirror md_stripe md_hotspares md_raid md_trans md_notify
337 MISC_KMODS     += md_sp

339 #
340 #       Exec Class Modules (/kernel/exec):
341 #
342 EXEC_KMODS     += aoutexec elfexec intpexec shbinexec javaexec

344 #
345 #       Scheduling Class Modules (/kernel/sched):
346 #
347 SCHED_KMODS    += RT TS RT_DPTBL TS_DPTBL IA FSS FX FX_DPTBL SDC

349 #
350 #       File System Modules (/kernel/fs):
351 #
352 FS_KMODS       += dev devfs fdfs fifofs hsfds lofs namefs nfs pcfs tmpfs zfs
353 FS_KMODS       += zut specfs udfs ufs autofs cacheofs procfs sockfs mntfs
354 FS_KMODS       += ctfs objfs sharefs dcfs smbfs

356 #
357 #       Streams Modules (/kernel/strmod):
358 #
359 STRMOD_KMODS   += bufmod connld dedump ldterm ms pckt pfmod
360 STRMOD_KMODS   += pipemod ptem redirmod rpcmod rlmmod telmod timod
361 STRMOD_KMODS   += sppsasyn sppscomp
362 STRMOD_KMODS   += tirdwr ttcompat
363 STRMOD_KMODS   += usbkbm usbms usbwcm usb_ah
364 STRMOD_KMODS   += drcompat
365 STRMOD_KMODS   += cryptmod
366 STRMOD_KMODS   += vuid3ps2

368 #
369 #       'System' Modules (/kernel/sys):
370 #
371 SYS_KMODS      += c2audit
372 SYS_KMODS      += exacctsys
373 SYS_KMODS      += inst_sync kaio msgsys semsys shmsys sysacct pipe
374 SYS_KMODS      += doorfs pset acctctl portfs

376 #
377 #       'User' Modules (/kernel/misc):
378 #
379 MISC_KMODS     += ac97
380 MISC_KMODS     += bignum
381 MISC_KMODS     += consconfig gld ipc nfs_dlboot nfssrv scsi
382 MISC_KMODS     += strplumb swapgeneric tlmmod
383 MISC_KMODS     += rpcsec rpcsec_gss kgssapi kmecch_dummy
384 MISC_KMODS     += kmecch_krb5
385 MISC_KMODS     += fssnap_if
386 MISC_KMODS     += hidparser kbtrans usba usba10 usbs49_fw
387 MISC_KMODS     += sl394
388 MISC_KMODS     += hpcsvc pcihp
389 MISC_KMODS     += rsmops

```

```

390 MISC_KMODS      += kcf
391 MISC_KMODS      += ksocket
392 MISC_KMODS      += ibcm
393 MISC_KMODS      += ibdm
394 MISC_KMODS      += ibdma
395 MISC_KMODS      += ibmf
396 MISC_KMODS      += ibtl
397 MISC_KMODS      += sol_ofs
398 MISC_KMODS      += idm
399 MISC_KMODS      += idmap
400 MISC_KMODS      += hook
401 MISC_KMODS      += neti
402 MISC_KMODS      += ctf
403 MISC_KMODS      += mac dls
404 MISC_KMODS      += cmlb
405 MISC_KMODS      += tem
406 MISC_KMODS      += pcicfg fcodem fcpci
407 MISC_KMODS      += scsi_vhci_f_sym scsi_vhci_f_tpgs scsi_vhci_f_asym_sun
408 MISC_KMODS      += scsi_vhci_f_sym_hds
409 MISC_KMODS      += scsi_vhci_f_tape scsi_vhci_f_tpgs_tape
410 MISC_KMODS      += fctl
411 MISC_KMODS      += emlxs_fw
412 MISC_KMODS      += qlc_fw_2200
413 MISC_KMODS      += qlc_fw_2300
414 MISC_KMODS      += qlc_fw_2400
415 MISC_KMODS      += qlc_fw_2500
416 MISC_KMODS      += qlc_fw_6322
417 MISC_KMODS      += qlc_fw_8100
418 MISC_KMODS      += spuni
419 MISC_KMODS      += hwal480_fw uwba
420 MISC_KMODS      += mii

422 MISC_KMODS      += klmmod klmops

424 #
425 #       Software Cryptographic Providers (/kernel/crypto):
426 #
427 CRYPTO_KMODS    += aes
428 CRYPTO_KMODS    += arcfour
429 CRYPTO_KMODS    += blowfish
430 CRYPTO_KMODS    += des
431 CRYPTO_KMODS    += md4
432 CRYPTO_KMODS    += md5
433 CRYPTO_KMODS    += ecc
434 CRYPTO_KMODS    += rsa
435 CRYPTO_KMODS    += sha1
436 CRYPTO_KMODS    += sha2
437 CRYPTO_KMODS    += swrand

439 #
440 # IP Policy Modules (/kernel/ipp):
441 #
442 IPP_KMODS        += dlcosmk
443 IPP_KMODS        += flowacct
444 IPP_KMODS        += ipgpc
445 IPP_KMODS        += dscpmk
446 IPP_KMODS        += tokenmt
447 IPP_KMODS        += tswtclmt

449 #
450 # 'Dacf' modules (/kernel/dacf)
451 DACF_KMODS       += consconfig_dacf

453 #
454 #       SVVS Testing Modules (/kernel/strmod):
455 #

```

```

456 #       These are streams and driver modules which are not to be
457 #       delivered with a released system. However, during development
458 #       it is convenient to build and install the SVVS kernel modules.
459 #
460 SVVS_KMODS       += lmodb lmode lmodr lmodt svvslo tidg tivc tmux

462 #
463 #       Modules eXcluded from the product:
464 #
465 XMODS            +=

467 #
468 #       'Dacf' Modules (/kernel/dacf):
469 #
470 DACF_KMODS       += net_dacf

472 #
473 #       MAC-Type Plugin Modules (/kernel/mac)
474 #
475 MAC_KMODS        += mac_6to4
476 MAC_KMODS        += mac_ether
477 MAC_KMODS        += mac_ipv4
478 MAC_KMODS        += mac_ipv6
479 MAC_KMODS        += mac_wifi
480 MAC_KMODS        += mac_ib

482 #
483 # socketmod (kernel/socketmod)
484 #
485 SOCKET_KMODS     += sockpfp
486 SOCKET_KMODS     += socksctp
487 SOCKET_KMODS     += socksdp
488 SOCKET_KMODS     += sockrds
489 SOCKET_KMODS     += ksslf

491 #
492 #       kiconv modules (/kernel/kiconv):
493 #
494 KICONV_KMODS     += kiconv_emea kiconv_ja kiconv_ko kiconv_sc kiconv_tc

496 #
497 # Ensure that the variable member of the cpu_t (cpu_m) is defined
498 # for the lint builds so as not to cause lint errors during the
499 # global cross check.
500 #
501 $(LINTFLAGSSUPPRESS)LINTFLAGS += -D_MACHDEP -I$(UTSBASE)/sun4 \
502                                -I$(UTSBASE)/sun4u -I$(UTSBASE)/sfmmu
503 #endif /* ! codereview */

```

new/usr/src/uts/sparc/Makefile.targ

1

```
*****
1458 Sun Nov 10 09:06:20 2013
new/usr/src/uts/sparc/Makefile.targ
*** NO COMMENTS ***
*****
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 #ident "%Z%M% %I% %E% SMI"
27 #
28 # This Makefile defines the set of all required, target containing
29 # included Makefiles for the sparc architecture.
30 #
31 # Targets for all implementations:
32 #
33 include $(UTSBASE)/Makefile.targ
34 #
35 #
36 # Target set for sparc (order is not important, as it is with the
37 # isomorphic Makefile.files set).
38 #
39 include $(UTSBASE)/sparc/Makefile.rules
40 include $(UTSBASE)/sparc/v9/Makefile.rules
41 include $(UTSBASE)/sun/Makefile.rules
42 include $(UTSBASE)/common/Makefile.rules
43 include $(UTSBASE)/sun4u/Makefile.rules
44 include $(UTSTREE)/sun/Makefile.rules
45 include $(UTSTREE)/common/Makefile.rules
46 include $(UTSTREE)/sun4u/Makefile.rules
47 include $(UTSBASE)/sun4/Makefile.rules
```

new/usr/src/uts/sun4u/Makefile.sun4u

1

```
*****
13404 Sun Nov 10 09:06:20 2013
new/usr/src/uts/sun4u/Makefile.sun4u
*** NO COMMENTS ***
*****

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

22 #
23 # Copyright 2010 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 # Copyright (c) 2013 Andrew Stormont. All rights reserved.
26 #
27 # This makefile contains the common definitions for the sun4u unix
28 # and all sun4u implementation architecture dependent modules.
29 #

31 #
32 # Machine type (implementation architecture):
33 #
34 PLATFORM = sun4u
35 PROMIF = ieeel275
36 PSMBASE = $(UTSBASE)/../psm

38 #
39 # uname -m value
40 #
41 UNAME_M = $(PLATFORM)

43 #
44 # Definitions for the platform-specific /platform directories.
45 #
46 # PLATFORMS designates those sun4u machines which have no platform
47 # specific code.
48 #
49 # IMPLEMENTATIONS is used to designate sun4u machines which do have
50 # platform specific modules (perhaps including their own unix). All
51 # code specific to a given implementation resides in the appropriately
52 # named subdirectory. This requires these platforms to have their
53 # own Makefiles to define ROOT_PLAT_DIRS, USR_PLAT_DIRS, etc.
54 #
55 # So if we had an implementation named 'foo', we would need the following
56 # Makefiles in the foo subdirectory:
57 #
58 # sun4u/foo/Makefile
59 # sun4u/foo/Makefile.foo
60 # sun4u/foo/Makefile.targ
61 #
```

new/usr/src/uts/sun4u/Makefile.sun4u

2

```
63 #
64 # /usr/platform/$(IMPLEMENTED_PLATFORM) is created as a directory that
65 # all the $(LINKED_PLATFORMS) link to.
66 #
67 IMPLEMENTED_PLATFORM = SUNW,Ultra-2

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

72 #
73 # all PLATFORMS that do not belong in the $(IMPLEMENTATIONS) list
74 # ie. all desktop platforms
75 #
76 PLATFORMS = $(IMPLEMENTED_PLATFORM)
77 PLATFORMS += $(LINKED_PLATFORMS)

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

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

87 #
88 # Welcome to SPARC V9.
89 #

91 #
92 # Define supported builds
93 #
94 DEF_BUILDS = $(DEF_BUILDS64)
95 ALL_BUILDS = $(ALL_BUILDS64)

97 #
98 # Everybody needs to know how to build modstubs.o and to locate unix.o
99 #
100 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
101 GENLIB_DIR = $(UTSBASE)/$(PLATFORM)/genunix
102 MODSTUBS_DIR = $(UNIX_DIR)
103 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
104 LINTS_DIR = $(OBJS_DIR)
105 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
106
107 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
108 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so

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

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

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

120 #
121 # cpu and platform modules need to know how to build their own symcheck mo
122 #
123 PLATMOD = platmod
124 PLATLIB = $(PLAT_DIR)/$(OBJS_DIR)/libplatmod.so

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

```

129 SYM_MOD          = $(OBJS_DIR)/unix.sym

131 #
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 $(UTSBASE)/$(PLATFORM)/Makefile.files
145 include $(UTSTREE)/$(PLATFORM)/Makefile.files
146 include $(UTSBASE)/sfmmu/Makefile.files
147 include $(UTSBASE)/sparc/v9/Makefile.files
148 include $(UTSBASE)/sparc/Makefile.files
149 include $(UTSBASE)/sun/Makefile.files
150 include $(UTSTREE)/sun/Makefile.files
151 include $(SRC)/psm/promif/$(PROMIF)/common/Makefile.files
152 include $(SRC)/psm/promif/$(PROMIF)/$(PLATFORM)/Makefile.files
153 include $(UTSBASE)/common/Makefile.files
154 include $(UTSTREE)/common/Makefile.files

152 #
153 #   Include machine independent rules. Note that this does not imply
154 #   that the resulting module from rules in Makefile.uts is machine
155 #   independent. Only that the build rules are machine independent.
156 #
157 include $(UTSBASE)/Makefile.uts

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

189 #
190 #   machine specific optimization, override default in Makefile.master

```

```

191 #
192 CC_XARCH          = -m64 -xarch=sparcvis
193 AS_XARCH          = -xarch=v9a
194 COPTIMIZE        = -xO3
195 CCMODE           = -Xa

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

219 ASFLAGS          += $(AS_XARCH)

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

223 LINT_KMODS       += $(GENUNIX_KMODS)

225 LINT_DEFS       = -m64

227 #
228 #   The following must be defined for all implementations:
229 #
230 #   MAPFILE:          ld mapfile for the build of kernel/unix.
231 #   MODSTUBS:        Module stubs source file.
232 #   GENCONST_SRC:    genconst.c
233 #   OFFSETS:         offsets.in
234 #   PLATFORM_OFFSETS: Platform specific mach_offsets.in
235 #   FDOFFSETS:       fd_offsets.in
236 #
237 MAPFILE          = $(UTSBASE)/sun4/conf/Mapfile
238 MODSTUBS         = $(UTSBASE)/sparc/ml/modstubs.s
239 GENCONST_SRC     = $(UTSBASE)/sun4/ml/genconst.c
240 OFFSETS          = $(UTSBASE)/sun4/ml/offsets.in
241 PLATFORM_OFFSETS = $(UTSBASE)/sun4u/ml/mach_offsets.in
242 FDOFFSETS        = $(UTSBASE)/sun4u/ml/fd_offsets.in

244 #
245 #   Define the actual specific platforms
246 #

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

250 #
251 #   Software workarounds for hardware "features"
252 #

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

256 #

```

```

257 #      Debugging level
258 #
259 #      Special knowledge of which special debugging options effect which
260 #      file is used to optimize the build if these flags are changed.
261 #
262 #      XXX: The above could possibly be done for more flags and files, but
263 #      is left as an experiment to the interested reader. Be forewarned,
264 #      that excessive use could lead to maintenance difficulties.
265 #
266 #      Note: kslice can be enabled for the sun4u, but is disabled by default
267 #      in all cases.
268 #
270 DEBUG_DEFS_OBJ64      =
271 DEBUG_DEFS_DBG64      = -DDEBUG
272 DEBUG_DEFS             = $(DEBUG_DEFS_$(BUILD_TYPE))
273
274 DEBUG_COND_OBJ64      = $(POUND_SIGN)
275 DEBUG_COND_DBG64      =
276 IF_DEBUG_OBJ          = $(DEBUG_COND_$(BUILD_TYPE))$(OBJS_DIR)/
277
278 $(IF_DEBUG_OBJ)trap.o      :=      DEBUG_DEFS      += -DTRAPDEBUG
279 $(IF_DEBUG_OBJ)mach_trap.o :=      DEBUG_DEFS      += -DTRAPDEBUG
280 $(IF_DEBUG_OBJ)syscall_trap.o :=      DEBUG_DEFS      += -DSYSCALLTRACE
281 $(IF_DEBUG_OBJ)clock.o    :=      DEBUG_DEFS      += -DKSLICE=0
282
283 IF_TRAPTRACE_OBJ = $(IF_DEBUG_OBJ)
284 # comment this out for a non-debug kernel with TRAPTRACE
285 #IF_TRAPTRACE_OBJ = $(OBJS_DIR)/
286
287 $(IF_TRAPTRACE_OBJ)mach_locore.o      :=      DEBUG_DEFS      += -DTRAPTRACE
288 $(IF_TRAPTRACE_OBJ)m1setup.o          :=      DEBUG_DEFS      += -DTRAPTRACE
289 $(IF_TRAPTRACE_OBJ)syscall_trap.o    :=      DEBUG_DEFS      += -DTRAPTRACE
290 $(IF_TRAPTRACE_OBJ)startup.o         :=      DEBUG_DEFS      += -DTRAPTRACE
291 $(IF_TRAPTRACE_OBJ)mach_startup.o    :=      DEBUG_DEFS      += -DTRAPTRACE
292 $(IF_TRAPTRACE_OBJ)mp_startup.o      :=      DEBUG_DEFS      += -DTRAPTRACE
293 $(IF_TRAPTRACE_OBJ)cpu_states.o      :=      DEBUG_DEFS      += -DTRAPTRACE
294 $(IF_TRAPTRACE_OBJ)mach_cpu_states.o :=      DEBUG_DEFS      += -DTRAPTRACE
295 $(IF_TRAPTRACE_OBJ)interrupt.o      :=      DEBUG_DEFS      += -DTRAPTRACE
296 $(IF_TRAPTRACE_OBJ)mach_interrupt.o :=      DEBUG_DEFS      += -DTRAPTRACE
297 $(IF_TRAPTRACE_OBJ)sfmmu_asm.o       :=      DEBUG_DEFS      += -DTRAPTRACE
298 $(IF_TRAPTRACE_OBJ)trap_table.o      :=      DEBUG_DEFS      += -DTRAPTRACE
299 $(IF_TRAPTRACE_OBJ)xc.o              :=      DEBUG_DEFS      += -DTRAPTRACE
300 $(IF_TRAPTRACE_OBJ)mach_xc.o         :=      DEBUG_DEFS      += -DTRAPTRACE
301 $(IF_TRAPTRACE_OBJ)wbuf.o           :=      DEBUG_DEFS      += -DTRAPTRACE
302 $(IF_TRAPTRACE_OBJ)trap.o           :=      DEBUG_DEFS      += -DTRAPTRACE
303 $(IF_TRAPTRACE_OBJ)mach_trap.o      :=      DEBUG_DEFS      += -DTRAPTRACE
304 $(IF_TRAPTRACE_OBJ)x_call.o         :=      DEBUG_DEFS      += -DTRAPTRACE
305 $(IF_TRAPTRACE_OBJ)spitfire_asm.o   :=      DEBUG_DEFS      += -DTRAPTRACE
306 $(IF_TRAPTRACE_OBJ)us3_common_asm.o :=      DEBUG_DEFS      += -DTRAPTRACE
307 $(IF_TRAPTRACE_OBJ)us3_cheetah_asm.o :=      DEBUG_DEFS      += -DTRAPTRACE
308 $(IF_TRAPTRACE_OBJ)us3_cheetahplus_asm.o :=      DEBUG_DEFS      += -DTRAPTRACE
309 $(IF_TRAPTRACE_OBJ)us3_jalapeno_asm.o :=      DEBUG_DEFS      += -DTRAPTRACE
310 $(IF_TRAPTRACE_OBJ)opl_olympus_asm.o :=      DEBUG_DEFS      += -DTRAPTRACE
311
312 # Comment these out if you don't want dispatcher lock statistics.
313
314 $$$(IF_DEBUG_OBJ)lock_prim.o      :=      DEBUG_DEFS      += -DDISP_LOCK_STATS
315 $$$(IF_DEBUG_OBJ)disp.o           :=      DEBUG_DEFS      += -DDISP_LOCK_STATS
316
317 # Comment these out if you don't want dispatcher debugging
318
319 $$$(IF_DEBUG_OBJ)lock_prim.o      :=      DEBUG_DEFS      += -DDISP_DEBUG
320
321 #
322 #      Collect the preprocessor definitions to be associated with *all*

```

```

323 #      files.
324 #
325 ALL_DEFS              = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
326                        $(OPTION_DEFS)
327 GENCONST_DEFS        = $(MACHINE_DEFS) $(OPTION_DEFS)
328
329 #
330 # ----- TRANSITIONAL SECTION -----
331 #
332 #
333 #
334 #      Not everything which *should* be a module is a module yet. The
335 #      following is a list of such objects which are currently part of
336 #      the base kernel but should soon become kmods.
337 #
338 MACH_NOT_YET_KMODS    = $(AUTOCONF_OBJS)
339
340 #
341 # ----- END OF TRANSITIONAL SECTION -----
342 #
343 #
344 #
345 #      The kernels modules which are "implementation architecture"
346 #      specific for this machine are enumerated below. Note that most
347 #      of these modules must exist (in one form or another) for each
348 #      architecture.
349 #
350 #      Common Drivers (usually pseudo drivers) (/kernel/drv):
351 #
352 #
353 #
354 #      Machine Specific Driver Modules (/kernel/drv):
355 #
356 #      XXX: How many of these are really machine specific?
357 #
358 DRV_KMODS             += bbc_beep
359 DRV_KMODS             += cpc
360 DRV_KMODS             += fd
361 DRV_KMODS             += rootnex sbusmem upa64s zs zsh
362 DRV_KMODS             += sbus
363 DRV_KMODS             += pcisch pcipsy simba
364 DRV_KMODS             += px
365 DRV_KMODS             += ebus
366 DRV_KMODS             += su
367 DRV_KMODS             += tod
368 DRV_KMODS             += power
369 DRV_KMODS             += epic
370 DRV_KMODS             += grbeep
371 DRV_KMODS             += pcf8584 max1617 seeprom tda8444 pca9556
372 DRV_KMODS             += ics951601 adm1031
373 DRV_KMODS             += lm75 ltc1427 pcf8591 pcf8574 ssc050 ssc100
374 DRV_KMODS             += pic16f819
375 DRV_KMODS             += pic16f747
376 DRV_KMODS             += adm1026
377 DRV_KMODS             += us
378 DRV_KMODS             += ppm schppm jbusppm
379 DRV_KMODS             += mc-us3
380 DRV_KMODS             += mc-us3i
381 DRV_KMODS             += sbus
382 DRV_KMODS             += db21554
383 DRV_KMODS             += gpio_87317
384 DRV_KMODS             += isadma
385 DRV_KMODS             += sbbc
386 DRV_KMODS             += pmubus
387 DRV_KMODS             += pmugpio
388 DRV_KMODS             += pmc

```

new/usr/src/uts/sun4u/Makefile.sun4u

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```
389 DRV_KMODS      += trapstat
390 DRV_KMODS      += rmc_comm
391 DRV_KMODS      += rmcadm
392 DRV_KMODS      += rmcclmv
393 DRV_KMODS      += sf
394 DRV_KMODS      += nxge
395 DRV_KMODS      += i2bsc
396 DRV_KMODS      += mem_cache

398 #
399 #       Exec Class Modules (/kernel/exec):
400 #
401 EXEC_KMODS      +=

403 #
404 #       Scheduling Class Modules (/kernel/sched):
405 #
406 SCHED_KMODS    +=

408 #
409 #       File System Modules (/kernel/fs):
410 #
411 FS_KMODS       +=

413 #
414 #       Streams Modules (/kernel/strmod):
415 #
416 STRMOD_KMODS   += kb

418 #
419 #       'System' Modules (/kernel/sys):
420 #
421 SYS_KMODS      +=

423 #
424 #       'User' Modules (/kernel/misc):
425 #
426 MISC_KMODS     += bignum
427 MISC_KMODS     += obpsym bootdev vis cpr platmod md5 sha1 i2c_svc
428 MISC_KMODS     += sbd

430 MISC_KMODS     += opl_cfg
431 MISC_KMODS     += zuluvm
432 MISC_KMODS     += gptwo_cpu gptwocfg
433 MISC_KMODS     += pcie

435 #
436 #       Brand modules
437 #
438 BRAND_KMODS    += snl_brand s10_brand

440 #
441 #       Software Cryptographic Providers (/kernel/crypto):
442 #
443 CRYPTO_KMODS   += aes
444 CRYPTO_KMODS   += arcfour
445 CRYPTO_KMODS   += des

447 #
448 #       generic-unix module (/kernel/genunix):
449 #
450 GENUNIX_KMODS  += genunix

452 #
453 #       'User' "Modules" excluded from the Full Kernel lint target:
```

new/usr/src/uts/sun4u/Makefile.sun4u

8

```
455 #
456 #       Modules eXcluded from the product:
457 #
458 XMODS          +=

460 #
461 #       cpu modules
462 #
463 CPU_KMODS      += cheetah cheetahplus jalapeno serrano spitfire hummingbird

465 #
466 #       sun4u 'TOD' Modules (/platform/.../kernel/tod):
467 #
468 TOD_KMODS      += todods1287 todods1337 todmostek todstarfire
469 TOD_KMODS      += todm5819 todblade todhq4802 todsg todopl
470 TOD_KMODS      += todm5819p_rmc todstarcat

472 #
473 #       Performance Counter BackEnd Modules (/usr/kernel/pcbe):
474 #
475 PCBE_KMODS     += us234_pcbe
476 PCBE_KMODS     += opl_pcbe
```



new/usr/src/uts/sun4u/Makefile.targ

1

```
*****
1656 Sun Nov 10 09:06:21 2013
new/usr/src/uts/sun4u/Makefile.targ
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
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20 # CDDL HEADER END
21 #
22 #
23 # uts/sun4u/Makefile.targ
24 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 #ident "%Z%M% %I% %E% SMI"
28 #
29 #
30 #
31 #
32 # Targets for all implementations:
33 #
34 include $(UTSBASE)/Makefile.targ
35 #
36 #
37 # Target set for sun4u (order is not important, as it is with the
38 # isomorphic Makefile.files set).
39 #
40 include $(UTSBASE)/sun4/Makefile.rules
41 include $(UTSBASE)/sun4u/Makefile.rules
42 include $(UTSBASE)/sun4u/Makefile.rules
43 include $(UTSBASE)/sfmmu/Makefile.rules
44 include $(UTSBASE)/sparc/v9/Makefile.rules
45 include $(UTSBASE)/sun/Makefile.rules
46 include $(UTSBASE)/sun/Makefile.rules
47 include $(PSMBASE)/promif/$(PROMIF)/common/Makefile.rules
48 include $(PSMBASE)/promif/$(PROMIF)/sun4u/Makefile.rules
49 include $(UTSBASE)/common/Makefile.rules
50 include $(UTSBASE)/common/Makefile.rules
```

```

*****
3824 Sun Nov 10 09:06:21 2013
new/usr/src/uts/sun4u/blade/Makefile.blade
*** NO COMMENTS ***
*****
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20 #
21 #
22 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # Global definitions for sun4u jbos-blade implementation specific modules.
26 #
27 #
28 #
29 # Define directories.
30 #
31 ROOT_BLADE_DIR = $(ROOT_PLAT_DIR)/SUNW,Serverblade1
32 ROOT_BLADE_MOD_DIR = $(ROOT_BLADE_DIR)/kernel
33 ROOT_BLADE_MISC_DIR_32 = $(ROOT_BLADE_DIR)/kernel/misc
34 ROOT_BLADE_MISC_DIR_64 = $(ROOT_BLADE_MISC_DIR_32)/$(SUBDIR64)
35 ROOT_BLADE_KERN_DIR_32 = $(ROOT_BLADE_MOD_DIR)
36 ROOT_BLADE_KERN_DIR_64 = $(ROOT_BLADE_MOD_DIR)/$(SUBDIR64)
37 ROOT_BLADE_DRV_DIR_32 = $(ROOT_BLADE_MOD_DIR)/drv
38 ROOT_BLADE_DRV_DIR_64 = $(ROOT_BLADE_MOD_DIR)/drv/$(SUBDIR64)
39 #
40 ROOT_BLADE_KERN_DIR = $(ROOT_BLADE_KERN_DIR_$(CLASS))
41 ROOT_BLADE_DRV_DIR = $(ROOT_BLADE_DRV_DIR_$(CLASS))
42 ROOT_BLADE_MISC_DIR = $(ROOT_BLADE_MISC_DIR_$(CLASS))
43 #
44 ROOT_PLAT_MOD_DIRS += $(ROOT_BLADE_MOD_DIR)
45 ROOT_PLAT_MISC_DIRS += $(ROOT_BLADE_MISC_DIR)
46 #
47 #
48 USR_SUN4U_PLAT_DIR = $(USR_PLAT_DIR)/sun4u
49 USR_BLADE_DIR = $(USR_PLAT_DIR)/SUNW,Serverblade1
50 USR_BLADE_INC_DIR = $(USR_BLADE_DIR)/include
51 USR_BLADE_ISYS_DIR = $(USR_BLADE_INC_DIR)/sys
52 USR_BLADE_SBIN_DIR = $(USR_BLADE_DIR)/sbin
53 USR_BLADE_LIB_DIR = $(USR_BLADE_DIR)/lib
54 #
55 #
56 BLADE_LINT_LIB_DIR= $(UTSBASE)/$(PLATFORM)/blade/lint-libs/$(OBJJS_DIR)
57 #
58 #
59 # Define Objects
60 #
61 BLADE_OBJJS = blade.o

```

```

63 #
64 # Option conf file
65 BLADE_OPTION = options
66 #
67 #
68 # Include the makefiles which define build rule templates, the
69 # collection of files per module, and a few specific flags. Note
70 # that order is significant, just as with an include path. The
71 # first build rule template which matches the files name will be
72 # used. By including these in order from most machine dependent
73 # to most machine independent, we allow a machine dependent file
74 # to be used in preference over a machine independent version
75 # (Such as a machine specific optimization, which preserves the
76 # interfaces.)
77 #
78 #
79 include $(UTSBASE)/sun4u/blade/Makefile.files
79 include $(UTSTREE)/sun4u/blade/Makefile.files
80 #
81 #
82 # Include common rules.
83 #
84 include $(UTSBASE)/sun4u/Makefile.sun4u
84 include $(UTSTREE)/sun4u/Makefile.sun4u
85 #
86 #
87 # Define modules (must come after Makefile.sun4u).
88 #
89 BLADE_KMODS = platmod
90 BLADE_KMODS += bscbus
91 BLADE_KMODS += bscv
92 #
93 LINTS_DIR = $(OBJJS_DIR)
94 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/blade/lint-libs/$(OBJJS_DIR)
95 LINT_LIB= $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJJS_DIR)/llib-lunix.ln
96 GEN_LINT_LIB= $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJJS_DIR)/llib-lgenunix.ln
97 #
98 #
99 #
100 # Define the actual specific platforms
101 #
102 MACHINE_DEFS += -D$(PLATFORM) -D_MACHDEP -DSFMMU
103 #
104 #
105 # Define for inline pre-processing since
106 # cpp not smart about v9 yet.
107 #
108 #CPP_DEFS_32 =
109 #CPP_DEFS_64 = -D__sparcv9
110 #CPP_DEFS = $(CPP_DEFS_$(CLASS))
111 #
112 #
113 # For now, disable these lint checks; maintainers should endeavor
114 # to investigate and remove these for maximum lint coverage.
115 # Please do not carry these forward to new Makefiles.
116 #
117 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
118 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
119 LINTTAGS += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
120 LINTTAGS += -erroff=E_STATIC_UNUSED
121 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
122 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV

```

new/usr/src/uts/sun4u/blade/Makefile.targ

1

```
*****
2024 Sun Nov 10 09:06:21 2013
new/usr/src/uts/sun4u/blade/Makefile.targ
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*****
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20 #
21 #
22 #
23 #
24 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 # Common targets for sun4u jbos-blade implementation specific modules.
28 #
29 #
30 .KEEP_STATE:
31 #
32 #
33 # Rules for implementation subdirectories.
34 #
35 $(ROOT_BLADE_DIR): $(ROOT_PLAT_DIR)
36     -$(INS.dir)
37 #
38 $(ROOT_BLADE_MOD_DIR): $(ROOT_BLADE_DIR)
39     -$(INS.dir)
40 #
41 $(ROOT_BLADE_DRV_DIR_32): $(ROOT_BLADE_MOD_DIR)
42     -$(INS.dir)
43 #
44 $(ROOT_BLADE_DRV_DIR_64): $(ROOT_BLADE_DRV_DIR_32)
45     -$(INS.dir)
46 #
47 $(ROOT_BLADE_MISC_DIR_32): $(ROOT_BLADE_MOD_DIR)
48     -$(INS.dir)
49 #
50 $(ROOT_BLADE_MISC_DIR_64): $(ROOT_BLADE_MISC_DIR_32)
51     -$(INS.dir)
52 #
53 $(ROOT_BLADE_MOD_DIR)/%: $(OBJS_DIR)/% $(ROOT_BLADE_MOD_DIR) FRC
54     $(INS.file)
55 #
56 $(ROOT_BLADE_MISC_DIR)/%: $(OBJS_DIR)/% $(ROOT_BLADE_MISC_DIR) FRC
57     $(INS.file)
58 #
59 $(ROOT_BLADE_DRV_DIR)/%: $(OBJS_DIR)/% $(ROOT_BLADE_DRV_DIR) FRC
60     $(INS.file)
```

new/usr/src/uts/sun4u/blade/Makefile.targ

2

```
62 $(USR_BLADE_DIR): $(USR_PLAT_DIR)
63     -$(INS.dir)
64 #
65 $(USR_BLADE_INC_DIR): $(USR_BLADE_DIR)
66     -$(INS.slink4)
67 #
68 $(USR_BLADE_ISYS_DIR): $(USR_BLADE_INC_DIR)
69     -$(INS.dir)
70 #
71 $(USR_BLADE_SBIN_DIR): $(USR_BLADE_DIR)
72     $(INS.slink5)
73 #
74 $(USR_BLADE_LIB_DIR): $(USR_BLADE_DIR)
75     -$(INS.dir)
76 #
77 # Include common targets.
78 #
79 include $(UTSBASE)/sun4u/blade/Makefile.rules
80 include $(UTSBASE)/sun4u/Makefile.targ
79 include $(UTSTREE)/sun4u/blade/Makefile.rules
80 include $(UTSTREE)/sun4u/Makefile.targ
```

```

*****
2644 Sun Nov 10 09:06:21 2013
new/usr/src/uts/sun4u/grover/Makefile.grover
*** NO COMMENTS ***
*****
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2 # CDDL HEADER START
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17 # information: Portions Copyright [yyyy] [name of copyright owner]
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19 # CDDL HEADER END
20 #
21 #
22 # uts/sun4u/grover/Makefile.grover
23 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # Global definitions for sun4u implementation specific modules.
27 #
28 #
29 #
30 # Define directories.
31 #
32 ROOT_GROVER_DIR = $(ROOT_PLAT_DIR)/SUNW,Sun-Blade-100
33 ROOT_GROVER_MOD_DIR = $(ROOT_GROVER_DIR)/kernel
34 #
35 ROOT_GROVER_MISC_DIR_32 = $(ROOT_GROVER_MOD_DIR)/misc
36 ROOT_GROVER_MISC_DIR_64 = $(ROOT_GROVER_MISC_DIR_32)/$(SUBDIR64)
37 ROOT_GROVER_DRV_DIR_32 = $(ROOT_GROVER_MOD_DIR)/drv
38 ROOT_GROVER_DRV_DIR_64 = $(ROOT_GROVER_DRV_DIR_32)/$(SUBDIR64)
39 #
40 ROOT_GROVER_MISC_DIR = $(ROOT_GROVER_MISC_DIR_$(CLASS))
41 ROOT_GROVER_DRV_DIR = $(ROOT_GROVER_DRV_DIR_$(CLASS))
42 #
43 ROOT_PLAT_MOD_DIRS += $(ROOT_GROVER_MOD_DIR)
44 ROOT_PLAT_MISC_DIRS += $(ROOT_GROVER_MISC_DIR)
45 #
46 USR_GROVER_DIR = $(USR_PLAT_DIR)/SUNW,Sun-Blade-100
47 USR_GROVER_LINKED_DIR = $(USR_PLAT_DIR)/$(LINKED_PLATFORM)
48 USR_GROVER_INC_DIR = $(USR_GROVER_DIR)/include
49 USR_GROVER_ISYS_DIR = $(USR_GROVER_INC_DIR)/sys
50 USR_GROVER_SBIN_DIR = $(USR_GROVER_DIR)/sbin
51 USR_GROVER_LIB_DIR = $(USR_GROVER_DIR)/lib
52 #
53 #
54 GROVER_LINT_LIB_DIR= $(UTSBASE)/$(PLATFORM)/grover/lint-libs/$(OBJS_DIR)
55 #
56 #
57 # Define objects.
58 #
59 GROVER_OBJS = grover.o
60 #
61 include $(UTSBASE)/sun4u/grover/Makefile.files

```

```

61 include $(UTSTREE)/sun4u/grover/Makefile.files
62 #
63 #
64 # Include common rules.
65 #
66 include $(UTSBASE)/sun4u/Makefile.sun4u
67 include $(UTSTREE)/sun4u/Makefile.sun4u
68 #
69 # Define modules (must come after Makefile.sun4u).
70 #
71 GROVER_KMODS = platmod
72 GROVER_KMODS += grfans
73 #
74 #
75 # For now, disable these lint checks; maintainers should endeavor
76 # to investigate and remove these for maximum lint coverage.
77 # Please do not carry these forward to new Makefiles.
78 #
79 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
80 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
81 LINTTAGS += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
82 LINTTAGS += -erroff=E_STATIC_UNUSED
83 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
84 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV

```

new/usr/src/uts/sun4u/grover/Makefile.targ

1

```
*****
2032 Sun Nov 10 09:06:21 2013
new/usr/src/uts/sun4u/grover/Makefile.targ
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
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21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
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24 #

26 #
27 #     Common targets for sun4u Grover implementation specific modules.
28 #

30 .KEEP_STATE:

32 IMPLEMENTED_PLATFORM = SUNW,Sun-Blade-100

34 #
35 # Rules for implementation subdirectories.
36 #
37 $(ROOT_GROVER_DIR): $(ROOT_PLAT_DIR)
38     -$(INS.dir)

40 $(ROOT_GROVER_MOD_DIR): $(ROOT_GROVER_DIR)
41     -$(INS.dir)

43 $(ROOT_GROVER_MISC_DIR_32): $(ROOT_GROVER_MOD_DIR)
44     -$(INS.dir)

46 $(ROOT_GROVER_MISC_DIR_64): $(ROOT_GROVER_MISC_DIR_32)
47     -$(INS.dir)

49 $(ROOT_GROVER_DRV_DIR_32): $(ROOT_GROVER_MOD_DIR)
50     -$(INS.dir)

52 $(ROOT_GROVER_DRV_DIR_64): $(ROOT_GROVER_DRV_DIR_32)
53     -$(INS.dir)

55 $(USR_GROVER_DIR): $(USR_PLAT_DIR)
56     -$(INS.dir)

58 $(USR_GROVER_INC_DIR): $(USR_GROVER_DIR)
59     -$(INS.slink4)

61 $(USR_GROVER_SBIN_DIR): $(USR_GROVER_DIR)
```

new/usr/src/uts/sun4u/grover/Makefile.targ

2

```
62     -$(INS.slink5)

64 $(USR_GROVER_LIB_DIR): $(USR_GROVER_DIR)
65     -$(INS.dir)

67 $(ROOT_GROVER_MOD_DIR)/%: $(OBJDIR)/% $(ROOT_GROVER_MOD_DIR) FRC
68     $(INS.file)

70 $(ROOT_GROVER_MISC_DIR)/%: $(OBJDIR)/% $(ROOT_GROVER_MISC_DIR) FRC
71     $(INS.file)

73 $(ROOT_GROVER_DRV_DIR)/%: $(OBJDIR)/% $(ROOT_GROVER_DRV_DIR) FRC
74     $(INS.file)

76 #
77 #     Include common targets.
78 #
79 include $(UTSBASE)/sun4u/grover/Makefile.rules
80 include $(UTSBASE)/sun4u/Makefile.targ
79 include $(UTSTREE)/sun4u/grover/Makefile.rules
80 include $(UTSTREE)/sun4u/Makefile.targ
```

new/usr/src/uts/sun4u/javelin/Makefile.javelin

1

```
*****
2446 Sun Nov 10 09:06:21 2013
new/usr/src/uts/sun4u/javelin/Makefile.javelin
*** NO COMMENTS ***
*****
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19 # CDDL HEADER END
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21 #
22 #
23 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # This makefile contains the common definitions for the
27 # sun4u Javelin system dependent modules.
28 #
29 #
30 #
31 # Define directories
32 #
33 ROOT_JAVELIN_DIR = $(ROOT_PLAT_DIR)/SUNW,Ultra-250
34 ROOT_JAVELIN_MOD_DIR = $(ROOT_JAVELIN_DIR)/kernel
35 ROOT_JAVELIN_KERN_DIR_32 = $(ROOT_JAVELIN_MOD_DIR)
36 ROOT_JAVELIN_KERN_DIR_64 = $(ROOT_JAVELIN_MOD_DIR)/$(SUBDIR64)
37 ROOT_JAVELIN_DRV_DIR_32 = $(ROOT_JAVELIN_MOD_DIR)/drv
38 ROOT_JAVELIN_DRV_DIR_64 = $(ROOT_JAVELIN_MOD_DIR)/drv/$(SUBDIR64)
39 ROOT_JAVELIN_MISC_DIR_32 = $(ROOT_JAVELIN_MOD_DIR)/misc
40 ROOT_JAVELIN_MISC_DIR_64 = $(ROOT_JAVELIN_MOD_DIR)/misc/$(SUBDIR64)
41 #
42 ROOT_JAVELIN_KERN_DIR = $(ROOT_JAVELIN_KERN_DIR_$(CLASS))
43 ROOT_JAVELIN_MISC_DIR = $(ROOT_JAVELIN_MISC_DIR_$(CLASS))
44 ROOT_JAVELIN_DRV_DIR = $(ROOT_JAVELIN_DRV_DIR_$(CLASS))
45 #
46 ROOT_PLAT_MOD_DIRS += $(ROOT_JAVELIN_MOD_DIR)
47 ROOT_PLAT_MISC_DIRS += $(ROOT_JAVELIN_MISC_DIR)
48 ROOT_PLAT_MISC_DIRS_32 += $(ROOT_JAVELIN_MISC_DIR_32)
49 ROOT_PLAT_DRV_DIRS = $(ROOT_JAVELIN_DRV_DIR)
50 #
51 USR_JAVELIN_DIR = $(USR_PLAT_DIR)/SUNW,Ultra-250
52 USR_JAVELIN_INC_DIR = $(USR_JAVELIN_DIR)/include
53 USR_JAVELIN_SBIN_DIR = $(USR_JAVELIN_DIR)/sbin
54 USR_JAVELIN_LIB_DIR = $(USR_JAVELIN_DIR)/lib
55 USR_JAVELIN_ISYS_DIR = $(USR_JAVELIN_INC_DIR)/sys
56 #
57 JAVELIN_LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/javelin/lint-libs/$(OBSJ_DIR)
58 #
59 #
60 # Define objects.
61 #
```

new/usr/src/uts/sun4u/javelin/Makefile.javelin

2

```
62 JAVELIN_OBJS = javelin.o
63 #
64 include $(UTSBASE)/sun4u/javelin/Makefile.files
64 include $(UTSTREE)/sun4u/javelin/Makefile.files
65 #
66 #
67 # Include common rules.
68 #
69 include $(UTSBASE)/sun4u/Makefile.sun4u
69 include $(UTSTREE)/sun4u/Makefile.sun4u
70 #
71 #
72 # Define modules (must come after Makefile.sun4u)
73 #
74 JAVELIN_KMODS = platmod
75 JAVELIN_KMODS += envctrltwo
```

new/usr/src/uts/sun4u/javelin/Makefile.targ

1

```
*****
2083 Sun Nov 10 09:06:22 2013
new/usr/src/uts/sun4u/javelin/Makefile.targ
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
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22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
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24 #
25 #
26 #
27 # Common targets for sun4u Javelin implementation specific modules.
28 #
29 #
30 #
31 IMPLEMENTED_PLATFORM = SUNW,Ultra-250
32 #
33 #
34 # Platform targets
35 #
36 $(ROOT_JAVELIN_DIR): $(ROOT_PLAT_DIR)
37     -$(INS.dir)
38 #
39 $(ROOT_JAVELIN_MOD_DIR): $(ROOT_JAVELIN_DIR)
40     -$(INS.dir)
41 #
42 $(ROOT_JAVELIN_DRV_DIR_32): $(ROOT_JAVELIN_MOD_DIR)
43     -$(INS.dir)
44 #
45 $(ROOT_JAVELIN_DRV_DIR_64): $(ROOT_JAVELIN_DRV_DIR_32)
46     -$(INS.dir)
47 #
48 $(ROOT_JAVELIN_MISC_DIR_32): $(ROOT_JAVELIN_MOD_DIR)
49     -$(INS.dir)
50 #
51 $(ROOT_JAVELIN_MISC_DIR_64): $(ROOT_JAVELIN_MISC_DIR_32)
52     -$(INS.dir)
53 #
54 $(USR_JAVELIN_DIR): $(USR_PLAT_DIR)
55     -$(INS.dir)
56 #
57 $(USR_JAVELIN_INC_DIR): $(USR_JAVELIN_DIR)
58     -$(INS.slink4)
59 #
60 $(USR_JAVELIN_SBIN_DIR): $(USR_JAVELIN_DIR)
61     -$(INS.slink5)
```

new/usr/src/uts/sun4u/javelin/Makefile.targ

2

```
63 $(USR_JAVELIN_LIB_DIR): $(USR_JAVELIN_DIR)
64     -$(INS.dir)
65 #
66 $(USR_JAVELIN_ISYS_DIR): $(USR_JAVELIN_INC_DIR)
67     -$(INS.dir)
68 #
69 $(ROOT_JAVELIN_MOD_DIR)/%: $(OBJSDIR)/% $(ROOT_JAVELIN_MOD_DIR) FRC
70     $(INS.file)
71 #
72 $(ROOT_JAVELIN_MISC_DIR)/%: $(OBJSDIR)/% $(ROOT_JAVELIN_MISC_DIR) FRC
73     $(INS.file)
74 #
75 $(ROOT_JAVELIN_DRV_DIR)/%: $(OBJSDIR)/% $(ROOT_JAVELIN_DRV_DIR) FRC
76     $(INS.file)
77 #
78 #
79 # Include common targets.
80 #
81 include $(UTSBASE)/sun4u/javelin/Makefile.rules
82 include $(UTSBASE)/sun4u/Makefile.targ
83 #
84 include $(UTSTREE)/sun4u/javelin/Makefile.rules
85 #
86 include $(UTSTREE)/sun4u/Makefile.targ
```

```

*****
3544 Sun Nov 10 09:06:22 2013
new/usr/src/uts/sun4u/montecarlo/Makefile.montecarlo
*** NO COMMENTS ***
*****
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21 #
22 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #ident "%Z%M% %I% %E% SMI"
26 #
27 #
28 #
29 #
30 # Define directories.
31 #
32 ROOT_MONTECARLO_DIR = $(ROOT_PLAT_DIR)/SUNW,UltraSPARC-III-Netract
33 ROOT_MONTECARLO_MOD_DIR = $(ROOT_MONTECARLO_DIR)/kernel
34 #
35 ROOT_MONTECARLO_KERN_DIR_32 = $(ROOT_MONTECARLO_MOD_DIR)
36 ROOT_MONTECARLO_KERN_DIR_64 = $(ROOT_MONTECARLO_MOD_DIR)/$(SUBDIR64)
37 ROOT_MONTECARLO_DRV_DIR_32 = $(ROOT_MONTECARLO_MOD_DIR)/drv
38 ROOT_MONTECARLO_DACF_DIR_32 = $(ROOT_MONTECARLO_MOD_DIR)/dacf
39 ROOT_MONTECARLO_DACF_DIR_64 = $(ROOT_MONTECARLO_MOD_DIR)/dacf/$(SUBDIR64)
40 ROOT_MONTECARLO_DRV_DIR_64 = $(ROOT_MONTECARLO_MOD_DIR)/drv/$(SUBDIR64)
41 ROOT_MONTECARLO_MISC_DIR_32 = $(ROOT_MONTECARLO_MOD_DIR)/misc
42 ROOT_MONTECARLO_MISC_DIR_64 = $(ROOT_MONTECARLO_MOD_DIR)/misc/$(SUBDIR64)
43 #
44 ROOT_MONTECARLO_KERN_DIR = $(ROOT_MONTECARLO_KERN_DIR_$(CLASS))
45 ROOT_MONTECARLO_MISC_DIR = $(ROOT_MONTECARLO_MISC_DIR_$(CLASS))
46 ROOT_MONTECARLO_DRV_DIR = $(ROOT_MONTECARLO_DRV_DIR_$(CLASS))
47 ROOT_MONTECARLO_DACF_DIR = $(ROOT_MONTECARLO_DACF_DIR_$(CLASS))
48 #
49 ROOT_PLAT_MOD_DIRS += $(ROOT_MONTECARLO_MOD_DIR)
50 ROOT_PLAT_MISC_DIRS += $(ROOT_MONTECARLO_MISC_DIR)
51 ROOT_PLAT_MISC_DIRS_32 += $(ROOT_MONTECARLO_MISC_DIR_32)
52 ROOT_PLAT_DRV_DIRS = $(ROOT_MONTECARLO_DRV_DIR)
53 ROOT_PLAT_DACF_DIRS = $(ROOT_MONTECARLO_DACF_DIR)
54 #
55 USR_MONTECARLO_DIR = $(USR_PLAT_DIR)/SUNW,UltraSPARC-III-Netract
56 USR_MONTECARLO_INC_DIR = $(USR_MONTECARLO_DIR)/include
57 USR_MONTECARLO_SBIN_DIR = $(USR_MONTECARLO_DIR)/sbin
58 USR_MONTECARLO_LIB_DIR = $(USR_MONTECARLO_DIR)/lib
59 USR_MONTECARLO_ISYS_DIR = $(USR_MONTECARLO_INC_DIR)/sys

```

```

61 MONTECARLO_LINT_LIB_DIR= $(UTSBASE)/$(PLATFORM)/montecarlo/lint-libs/$(OBJS_DIR)
62 #
63 #
64 # Define objects.
65 #
66 #
67 include $(UTSBASE)/sun4u/montecarlo/Makefile.files
68 include $(UTSTREE)/sun4u/montecarlo/Makefile.files
69 #
70 # Include common rules.
71 #
72 include $(UTSBASE)/sun4u/Makefile.sun4u
73 #
74 include $(UTSTREE)/sun4u/Makefile.sun4u
75 #
76 #
77 MONTECARLO_KMODS = acebus pcf8574_nct pcf8591_nct scsb ttymux_dacf
78 #
79 #
80 # we need the official MONTECARLO name here, and for the sun4u/montecarlo
81 # directory and Makefile.montecarlo
82 # for now we'll use montecarlo for workspace file/dir names
83 # and NORDICA_CP1500 for conditional code compiles, since that's our current
84 # test platform
85 #
86 MACHINE_DEFS += -DNORDICA_CP1500
87 #
88 #
89 # For now, disable these lint checks; maintainers should endeavor
90 # to investigate and remove these for maximum lint coverage.
91 # Please do not carry these forward to new Makefiles.
92 #
93 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
94 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
95 LINTTAGS += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
96 LINTTAGS += -erroff=E_STATIC_UNUSED
97 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
98 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV

```



new/usr/src/uts/sun4u/montecarlo/Makefile.targ

1

```
*****
2420 Sun Nov 10 09:06:22 2013
new/usr/src/uts/sun4u/montecarlo/Makefile.targ
*** NO COMMENTS ***
*****
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18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #
26 #
27 # Common targets for sun4u MonteCarlo implementation specific modules.
28 #
29 #
30 # Platform targets
31 #
32 $(ROOT_MONTECARLO_DIR): $(ROOT_PLAT_DIR)
33     -$(INS.dir)
34 #
35 .KEEP_STATE:
36 #
37 #
38 # Rules for implementation subdirectories.
39 #
40 $(ROOT_MONTECARLO_MOD_DIR): $(ROOT_MONTECARLO_DIR)
41     -$(INS.dir)
42 #
43 $(ROOT_MONTECARLO_DACF_DIR_32): $(ROOT_MONTECARLO_MOD_DIR)
44     -$(INS.dir)
45 #
46 $(ROOT_MONTECARLO_DACF_DIR_64): $(ROOT_MONTECARLO_DACF_DIR_32)
47     -$(INS.dir)
48 #
49 $(ROOT_MONTECARLO_DRV_DIR_32): $(ROOT_MONTECARLO_MOD_DIR)
50     -$(INS.dir)
51 #
52 $(ROOT_MONTECARLO_DRV_DIR_64): $(ROOT_MONTECARLO_DRV_DIR_32)
53     -$(INS.dir)
54 #
55 $(ROOT_MONTECARLO_MISC_DIR_32): $(ROOT_MONTECARLO_MOD_DIR)
56     -$(INS.dir)
57 #
58 $(ROOT_MONTECARLO_MISC_DIR_64): $(ROOT_MONTECARLO_MISC_DIR_32)
59     -$(INS.dir)
60 #
61 $(USR_MONTECARLO_DIR): $(USR_PLAT_DIR)
```

new/usr/src/uts/sun4u/montecarlo/Makefile.targ

2

```
62     -$(INS.dir)
63 #
64 $(USR_MONTECARLO_INC_DIR): $(USR_MONTECARLO_DIR)
65     -$(INS.slink4)
66 #
67 $(USR_MONTECARLO_SBIN_DIR): $(USR_MONTECARLO_DIR)
68     -$(INS.slink5)
69 #
70 $(USR_MONTECARLO_LIB_DIR): $(USR_MONTECARLO_DIR)
71     -$(INS.dir)
72 #
73 $(USR_MONTECARLO_ISYS_DIR): $(USR_MONTECARLO_INC_DIR)
74     -$(INS.dir)
75 #
76 $(ROOT_MONTECARLO_MOD_DIR)/%: $(OBJDIR)/% $(ROOT_MONTECARLO_MOD_DIR) FRC
77     $(INS.file)
78 #
79 $(ROOT_MONTECARLO_MISC_DIR)/%: $(OBJDIR)/% $(ROOT_MONTECARLO_MISC_DIR) FRC
80     $(INS.file)
81 #
82 $(ROOT_MONTECARLO_DACF_DIR)/%: $(OBJDIR)/% $(ROOT_MONTECARLO_DACF_DIR)
83     $(INS.file)
84 #
85 $(ROOT_MONTECARLO_DRV_DIR)/%: $(OBJDIR)/% $(ROOT_MONTECARLO_DRV_DIR) FRC
86     $(INS.file)
87 #
88 #
89 # Include common targets.
90 #
91 include $(UTSBASE)/sun4u/montecarlo/Makefile.rules
92 include $(UTSBASE)/sun4u/Makefile.targ
91 include $(UTSTREE)/sun4u/montecarlo/Makefile.rules
92 include $(UTSTREE)/sun4u/Makefile.targ
```

new/usr/src/uts/sun4u/mpxu/Makefile.mpxu

1

```
*****
3908 Sun Nov 10 09:06:22 2013
new/usr/src/uts/sun4u/mpxu/Makefile.mpxu
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*****
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18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 #
25 #
26 # Global definitions for sun4u implementation specific modules.
27 #
28 #
29 #
30 # Define the name of this implementation.
31 #
32 #
33 #
34 # Define directories.
35 #
36 ROOT_MPXU_DIR = $(ROOT_PLAT_DIR)/SUNW,Sun-Fire-V240
37 ROOT_MPXU_MOD_DIR = $(ROOT_MPXU_DIR)/kernel
38 #
39 ROOT_MPXU_DRV_DIR_32 = $(ROOT_MPXU_MOD_DIR)/drv
40 ROOT_MPXU_DRV_DIR_64 = $(ROOT_MPXU_MOD_DIR)/drv/$(SUBDIR64)
41 ROOT_MPXU_DRV_DIR = $(ROOT_MPXU_DRV_DIR_$(CLASS))
42 #
43 ROOT_MPXU_MISC_DIR_32 = $(ROOT_MPXU_MOD_DIR)/misc
44 ROOT_MPXU_MISC_DIR_64 = $(ROOT_MPXU_MOD_DIR)/misc/$(SUBDIR64)
45 ROOT_MPXU_MISC_DIR = $(ROOT_MPXU_MISC_DIR_$(CLASS))
46 #
47 ROOT_MPXU_CRYPTODIR_32 = $(ROOT_MPXU_MOD_DIR)/crypto
48 ROOT_MPXU_CRYPTODIR_64 = $(ROOT_MPXU_MOD_DIR)/crypto/$(SUBDIR64)
49 ROOT_MPXU_CRYPTODIR = $(ROOT_MPXU_CRYPTODIR_$(CLASS))
50 #
51 USR_MPXU_DIR = $(USR_PLAT_DIR)/SUNW,Sun-Fire-V240
52 USR_MPXU_INC_DIR = $(USR_MPXU_DIR)/include
53 USR_MPXU_ISYS_DIR = $(USR_MPXU_INC_DIR)/sys
54 USR_MPXU_SBIN_DIR = $(USR_MPXU_DIR)/sbin
55 USR_MPXU_SBIN_PRTDIAG = $(USR_MPXU_SBIN_DIR)/prtdiag
56 USR_MPXU_SBIN_FRUADM = $(USR_MPXU_SBIN_DIR)/fruadm
57 USR_MPXU_LIB_DIR = $(USR_MPXU_DIR)/lib
58 #
59 MPXU_LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/mpxu/lint-libs/$(OBJS_DIR)
60 #
```

new/usr/src/uts/sun4u/mpxu/Makefile.mpxu

2

```
62 # Links to UltraSparc III crypto modules
63 #
64 MPXU_CRYPTODIR = aes
65 #
66 #
67 # Include the makefiles which define build rule templates, the
68 # collection of files per module, and a few specific flags. Note
69 # that order is significant, just as with an include path. The
70 # first build rule template which matches the files name will be
71 # used. By including these in order from most machine dependent
72 # to most machine independent, we allow a machine dependent file
73 # to be used in preference over a machine independent version
74 # (Such as a machine specific optimization, which preserves the
75 # interfaces.)
76 #
77 #
78 include $(UTSBASE)/sun4u/mpxu/Makefile.files
79 include $(UTSTREE)/sun4u/mpxu/Makefile.files
80 #
81 # Include common rules.
82 #
83 include $(UTSBASE)/sun4u/Makefile.sun4u
84 include $(UTSTREE)/sun4u/Makefile.sun4u
85 #
86 # Define modules (must come after Makefile.sun4u).
87 #
88 MPXU_KMODS = tsalarm
89 #
90 MODSTUBS_DIR = $(UNIX_DIR)
91 LINTS_DIR = $(OBJS_DIR)
92 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/mpxu/lint-libs/$(OBJS_DIR)
93 #
94 #
95 # Define the actual specific platforms
96 #
97 MACHINE_DEFS = -D$(PLATFORM) -D_MACHDEP -DSFMMU -DMP
98 #
99 #
100 # Define platform specific values
101 #
102 #MACHINE_DEFS += -DNCPU=554
103 #MACHINE_DEFS += -DMAX_UPA=1024
104 #MACHINE_DEFS += -DIGN_SIZE=10
105 # Max IOSRAM TOC major version number supported
106 #MACHINE_DEFS += -DMAX_IOSRAM_TOC_VER=0x1
107 #
108 # Define for inline pre-processing since
109 # cpp not smart about v9 yet.
110 #
111 CPP_DEFS_32 =
112 CPP_DEFS_64 = -D__sparcv9
113 CPP_DEFS = $(CPP_DEFS_$(CLASS))
114 #
115 #
116 # For now, disable these lint checks; maintainers should endeavor
117 # to investigate and remove these for maximum lint coverage.
118 # Please do not carry these forward to new Makefiles.
119 #
120 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
121 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
122 LINTTAGS += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
123 LINTTAGS += -erroff=E_STATIC_UNUSED
124 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
125 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV
```

new/usr/src/uts/sun4u/mpxu/Makefile.targ

1

```
*****
2380 Sun Nov 10 09:06:22 2013
new/usr/src/uts/sun4u/mpxu/Makefile.targ
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*****
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19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2005, 2010, Oracle and/or its affiliates. All rights reserved.
23 #

25 #
26 #         Common targets for sun4u MPXU implementation specific modules.
27 #

29 .KEEP_STATE:

31 #
32 # Rules for implementation subdirectories.
33 #
34 $(ROOT_MPXU_DIR): $(ROOT_PLAT_DIR)
35     -$(INS.dir)

37 $(ROOT_MPXU_MOD_DIR): $(ROOT_MPXU_DIR)
38     -$(INS.dir)

40 $(ROOT_MPXU_DRV_DIR_32): $(ROOT_MPXU_MOD_DIR)
41     -$(INS.dir)

43 $(ROOT_MPXU_DRV_DIR_64): $(ROOT_MPXU_DRV_DIR_32)
44     -$(INS.dir)

46 $(ROOT_MPXU_MISC_DIR_32): $(ROOT_MPXU_MOD_DIR)
47     -$(INS.dir)

49 $(ROOT_MPXU_MISC_DIR_64): $(ROOT_MPXU_MISC_DIR_32)
50     -$(INS.dir)

52 $(ROOT_MPXU_CRYPTODIR_32): $(ROOT_MPXU_MOD_DIR)
53     -$(INS.dir)

55 $(ROOT_MPXU_CRYPTODIR_64): $(ROOT_MPXU_CRYPTODIR_32)
56     -$(INS.dir)

58 $(USR_MPXU_DIR): $(USR_PLAT_DIR)
59     -$(INS.dir)

61 $(USR_MPXU_INC_DIR): $(USR_MPXU_DIR)
```

new/usr/src/uts/sun4u/mpxu/Makefile.targ

2

```
62     $(INS.slink4)

64 $(USR_MPXU_ISYS_DIR): $(USR_MPXU_INC_DIR)
65     $(INS.dir)

67 $(USR_MPXU_SBIN_DIR): $(USR_MPXU_DIR)
68     $(INS.dir)

70 $(USR_MPXU_SBIN_PRTDIAG): $(USR_MPXU_SBIN_DIR)
71     $(RM) -r @$; $(SYMLINK) ../../$(PLATFORM)/sbin/prtdiag @$

73 $(USR_MPXU_SBIN_FRUADM): $(USR_MPXU_SBIN_DIR)
74     $(RM) -r @$; $(SYMLINK) ../../$(PLATFORM)/sbin/fruadm @$

76 $(LINKED_PLATFORMS:%=$(ROOT_PLAT_DIR)/%): $(ROOT_PLAT_DIR)
77     $(INS.slink3)

79 $(LINKED_PLATFORMS:%=$(USR_PLAT_DIR)/%): $(USR_PLAT_DIR)
80     $(INS.slink3)

82 $(USR_MPXU_LIB_DIR): $(USR_MPXU_DIR)
83     -$(INS.dir)

85 $(ROOT_MPXU_MISC_DIR)/%: $(OBS_DIR)/% $(ROOT_MPXU_MISC_DIR)
86     $(INS.file)

88 $(ROOT_MPXU_DRV_DIR)/%: $(OBS_DIR)/% $(ROOT_MPXU_DRV_DIR) FRC
89     $(INS.file)

91 #
92 #         Include common targets.
93 #
94 include $(UTSBASE)/sun4u/mpxu/Makefile.rules
95 include $(UTSBASE)/sun4u/Makefile.targ
94 include $(UTSTREE)/sun4u/mpxu/Makefile.rules
95 include $(UTSTREE)/sun4u/Makefile.targ
```

new/usr/src/uts/sun4u/opl/Makefile.opl

1

\*\*\*\*\*

6094 Sun Nov 10 09:06:22 2013

new/usr/src/uts/sun4u/opl/Makefile.opl

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

```
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19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2006, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 # Global definitions for sun4u opl implementation specific modules.
25 #
26 # uts/sun4u/opl/Makefile.opl
27 #
28 #
29 #
30 # Define directories.
31 #
32 #
33 #
34 ROOT_OPL_DIR = $(ROOT_PLAT_DIR)/SUNW,SPARC-Enterprise
35 ROOT_OPL_MOD_DIR = $(ROOT_OPL_DIR)/kernel
36 ROOT_OPL_KERN_DIR_32 = $(ROOT_OPL_MOD_DIR)
37 ROOT_OPL_KERN_DIR_64 = $(ROOT_OPL_MOD_DIR)/$(SUBDIR64)
38 ROOT_OPL_MISC_DIR_32 = $(ROOT_OPL_MOD_DIR)/misc
39 ROOT_OPL_MISC_DIR_64 = $(ROOT_OPL_MOD_DIR)/misc/$(SUBDIR64)
40 ROOT_OPL_DRV_DIR_32 = $(ROOT_OPL_MOD_DIR)/drv
41 ROOT_OPL_DRV_DIR_64 = $(ROOT_OPL_MOD_DIR)/drv/$(SUBDIR64)
42 ROOT_OPL_CPU_DIR_32 = $(ROOT_OPL_MOD_DIR)/cpu
43 ROOT_OPL_CPU_DIR_64 = $(ROOT_OPL_MOD_DIR)/cpu/$(SUBDIR64)
44 ROOT_OPL_CRYPTODIR_32 = $(ROOT_OPL_MOD_DIR)/crypto
45 ROOT_OPL_CRYPTODIR_64 = $(ROOT_OPL_MOD_DIR)/crypto/$(SUBDIR64)
46 #
47 ROOT_OPL_KERN_DIR = $(ROOT_OPL_KERN_DIR_$(CLASS))
48 ROOT_OPL_MISC_DIR = $(ROOT_OPL_MISC_DIR_$(CLASS))
49 ROOT_OPL_DRV_DIR = $(ROOT_OPL_DRV_DIR_$(CLASS))
50 ROOT_OPL_CPU_DIR = $(ROOT_OPL_CPU_DIR_$(CLASS))
51 ROOT_OPL_CRYPTODIR = $(ROOT_OPL_CRYPTODIR_$(CLASS))
52 #
53 ROOT_PLAT_MOD_DIRS += $(ROOT_OPL_MOD_DIR)
54 ROOT_PLAT_MISC_DIRS_32 += $(ROOT_OPL_MISC_DIR_32)
55 #
56 USR_OPL_DIR = $(USR_PLAT_DIR)/SUNW,SPARC-Enterprise
57 USR_OPL_LIB_DIR = $(USR_OPL_DIR)/lib
58 USR_OPL_SBIN_DIR = $(USR_OPL_DIR)/sbin
59 USR_OPL_SBIN_PRTDIAG = $(USR_OPL_SBIN_DIR)/prtdiag
60 USR_OPL_SBIN_FRUADM = $(USR_OPL_SBIN_DIR)/fruadm
61 USR_OPL_INC_DIR = $(USR_OPL_DIR)/include
```

new/usr/src/uts/sun4u/opl/Makefile.opl

2

```
62 USR_OPL_ISYS_DIR = $(USR_OPL_INC_DIR)/sys
63 #
64 OPL_LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/opl/lint-libs/$(OBSJ_DIR)
65 OPLMSU_OPTION = options
66 #
67 #
68 # Define modules.
69 #
70 OPL_KMODS = platmod
71 OPL_KMODS += dm2s
72 OPL_KMODS += oplkmdrv
73 OPL_KMODS += pcicmu
74 OPL_KMODS += oplpanel
75 OPL_KMODS += dr .WAIT drmach
76 OPL_KMODS += oplmsu
77 OPL_KMODS += mc-opl
78 #
79 #
80 # CPU modules.
81 #
82 OPL_CPU_KMODS += olympus_c
83 #
84 # Links to OPL crypto modules
85 #
86 OPL_CRYPTOLINKS = aes
87 #
88 #
89 # Include the makefiles which define build rule templates, the
90 # collection of files per module, and a few specific flags. Note
91 # that order is significant, just as with an include path. The
92 # first build rule template which matches the files name will be
93 # used. By including these in order from most machine dependent
94 # to most machine independent, we allow a machine dependent file
95 # to be used in preference over a machine independent version
96 # (Such as a machine specific optimization, which preserves the
97 # interfaces.)
98 #
99 include $(UTSBASE)/sun4u/ngdr/Makefile.files
100 include $(UTSBASE)/sun4u/opl/Makefile.files
101 include $(UTSTREE)/sun4u/opl/Makefile.files
102 #
103 # Include common rules.
104 #
105 include $(UTSBASE)/sun4u/Makefile.sun4u
106 include $(UTSTREE)/sun4u/Makefile.sun4u
107 #
108 # Everybody needs to know how to build modstubs.o and to locate unix.o
109 #
110 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/opl/unix
111 MODSTUBS_DIR = $(UNIX_DIR)
112 DSF_DIR = $(UTSBASE)/$(PLATFORM)/opl/genassym
113 LINTS_DIR = $(OBSJ_DIR)
114 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/opl/lint-libs/$(OBSJ_DIR)
115 #
116 UNIX_O = $(UNIX_DIR)/$(OBSJ_DIR)/unix.o
117 #
118 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
119 #
120 #
121 # Define the actual specific platforms
122 #
123 MACHINE_DEFS = -D$(PLATFORM) -D_MACHDEP -DSFMMU -DMP
124 MACHINE_DEFS += -D_CPU_SIGNATURE
```

```
126 #
127 # Maximum CPUID = 01111 11 01 1 = 0x1FB (507)
128 # Maximum CHIPID = 1 01111 11 00 0 = 0x5F8 (1528)
129 #
130 MACHINE_DEFS += -DNCPU=512
131 MACHINE_DEFS += -DMAX_CPU_CHIPID=1529
132 MACHINE_DEFS += -DMAX_UPA=256
133 MACHINE_DEFS += -DIGN_SIZE=8
134 MACHINE_DEFS += -DMAX_MEM_NODES=16
135 #
136 # UTSB_PHYS will enable user TSB physical access for TL>0
137 #
138 MACHINE_DEFS += -DUTSB_PHYS
139 MACHINE_DEFS += -D_OPL
140 MACHINE_DEFS += -DOLYMPUS_SHARED_FTLB
141 MACHINE_DEFS += -D_CMP_NO_ERROR_STEERING -D_HW_MEMSCRUB_SUPPORT
142 MACHINE_DEFS += -DDO_CORELEVEL_LOADBAL
143 MACHINE_DEFS += -DITLB_32M_256M_SUPPORT
144 #
145 # OLYMPUS C cross-call erratas.
146 # - revision A can only deliver one xcall at a time.
147 # - revision B can dispatch xcalls to 31 (IDSR_BN_SETS) CPUs at a time,
148 # but it can not send more xcalls until all the pending xcalls are
149 # dispatched. In other words, all previous 31 xcall slots must be
150 # in non-busy state before further xcalls can be issued.
151 MACHINE_DEFS += -DOLYMPUS_C_REV_A_ERRATA_XCALL
152 MACHINE_DEFS += -DOLYMPUS_C_REV_B_ERRATA_XCALL
153 #
154 # OLYMPUS C Spurious interrupts
155 # - When an UE is detected in a interrupt packet,
156 # Olympus-C takes an interrupt_vector_trap (TT=0x60) while
157 # ASI_INTR_RECIEVE.BUSY is set to zero to indicate the existence
158 # of the error. Software will see this as a spurious interrupt since
159 # the interrupt busy bit is set to zero. SW will still need to
160 # explicitly clear the interrupt busy bit to reset the HW state.
161 # Failure to do so will result in the processor continuously taking
162 # an interrupt vector trap when PSTATE.IE is reset to one.
163 # Note that UE in interrupt packet is reported to the SP and handled
164 # accordingly. For the domain, the system should panic as it is not
165 # recoverable.
166 MACHINE_DEFS += -DCLEAR_INTR_BUSYBIT_ON_SPURIOUS

168 #
169 # For now, disable these lint checks; maintainers should endeavor
170 # to investigate and remove these for maximum lint coverage.
171 # Please do not carry these forward to new Makefiles.
172 #
173 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
174 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
175 LINTTAGS += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
176 LINTTAGS += -erroff=E_STATIC_UNUSED
177 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
178 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV

180 .KEEP_STATE:
```

new/usr/src/uts/sun4u/opl/Makefile.targ

1

\*\*\*\*\*

2561 Sun Nov 10 09:06:23 2013

new/usr/src/uts/sun4u/opl/Makefile.targ

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

```
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18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2006, 2010, Oracle and/or its affiliates. All rights reserved.
23 #
24 # Common targets for sun4u opl implementation specific modules.
25 #
26 # uts/sun4u/opl/Makefile.targ
27 #
28
29 .KEEP_STATE:
30
31 #
32 # Rules for implementation subdirectories.
33 #
34 $(ROOT_OPL_DIR): $(ROOT_PLAT_DIR)
35     -$(INS.dir)
36
37 $(ROOT_OPL_MOD_DIR): $(ROOT_OPL_DIR)
38     -$(INS.dir)
39
40 $(ROOT_OPL_DRV_DIR_32): $(ROOT_OPL_MOD_DIR)
41     -$(INS.dir)
42
43 $(ROOT_OPL_DRV_DIR_64): $(ROOT_OPL_DRV_DIR_32)
44     -$(INS.dir)
45
46 $(ROOT_OPL_CPU_DIR_32): $(ROOT_OPL_MOD_DIR)
47     -$(INS.dir)
48
49 $(ROOT_OPL_CPU_DIR_64): $(ROOT_OPL_CPU_DIR_32)
50     -$(INS.dir)
51
52 $(ROOT_OPL_MISC_DIR_32): $(ROOT_OPL_MOD_DIR)
53     -$(INS.dir)
54
55 $(ROOT_OPL_MISC_DIR_64): $(ROOT_OPL_MISC_DIR_32)
56     -$(INS.dir)
57
58 $(ROOT_OPL_CRYPTODIR_32): $(ROOT_OPL_MOD_DIR)
59     -$(INS.dir)
60
61 $(ROOT_OPL_CRYPTODIR_64): $(ROOT_OPL_CRYPTODIR_32)
```

new/usr/src/uts/sun4u/opl/Makefile.targ

2

```
62     -$(INS.dir)
63
64 $(USR_OPL_DIR): $(USR_PLAT_DIR)
65     -$(INS.dir)
66
67 $(USR_OPL_INC_DIR): $(USR_OPL_DIR) $(USR_PSM_INCL_DIR)
68     $(INS.slink4)
69
70 $(USR_OPL_SBIN_DIR): $(USR_OPL_DIR) $(USR_PSM_SBIN_DIR)
71     $(INS.dir)
72
73 $(USR_OPL_SBIN_PRTDIAG): $(USR_OPL_SBIN_DIR)
74     $(RM) -r $@; $(SYMLINK) ../../$(PLATFORM)/sbin/prtdiag $@
75
76 $(USR_OPL_SBIN_FRUADM): $(USR_OPL_SBIN_DIR)
77     $(RM) -r $@; $(SYMLINK) ../../$(PLATFORM)/sbin/fruadm $@
78
79 $(USR_OPL_LIB_DIR): $(USR_OPL_DIR) $(USR_PSM_LIB_DIR)
80     -$(INS.dir)
81
82 $(USR_OPL_ISYS_DIR): $(USR_OPL_INC_DIR)
83     $(INS.dir)
84
85 $(ROOT_OPL_KERN_DIR)/%: $(OBSJ_DIR)/% $(ROOT_OPL_KERN_DIR) FRC
86     $(INS.file)
87
88 $(ROOT_OPL_DRV_DIR)/%: $(OBSJ_DIR)/% $(ROOT_OPL_DRV_DIR) FRC
89     $(INS.file)
90
91 $(ROOT_OPL_CPU_DIR)/%: $(OBSJ_DIR)/% $(ROOT_OPL_CPU_DIR) FRC
92     $(INS.file)
93
94 $(ROOT_OPL_MISC_DIR)/%: $(OBSJ_DIR)/% $(ROOT_OPL_MISC_DIR) FRC
95     $(INS.file)
96
97 #
98 # Include common targets.
99 #
100 include $(UTSBASE)/sun4u/opl/Makefile.rules
101 include $(UTSBASE)/sun4u/Makefile.targ
102 include $(UTSTREE)/sun4u/opl/Makefile.rules
103 include $(UTSTREE)/sun4u/Makefile.targ
```

new/usr/src/uts/sun4u/serengeti/Makefile.serengeti

1

```
*****
5011 Sun Nov 10 09:06:23 2013
new/usr/src/uts/sun4u/serengeti/Makefile.serengeti
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
3 #
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7 #
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9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #ident "%Z%M% %I% %E% SMI"

26 #
27 # Global definitions for sun4u implementation specific modules.
28 #

30 #
31 # Define the name of this implementation.
32 #

34 #
35 # Define directories.
36 #
37 ROOT_SERENGETI_DIR = $(ROOT_PLAT_DIR)/SUNW,Sun-Fire
38 ROOT_SERENGETI_MOD_DIR = $(ROOT_SERENGETI_DIR)/kernel

40 ROOT_SERENGETI_KERN_DIR_32 = $(ROOT_SERENGETI_MOD_DIR)
41 ROOT_SERENGETI_KERN_DIR_64 = $(ROOT_SERENGETI_MOD_DIR)/$(SUBDIR64)
42 ROOT_SERENGETI_KERN_DIR = $(ROOT_SERENGETI_KERN_DIR_$(CLASS))

44 ROOT_SERENGETI_CPU_DIR_32 = $(ROOT_SERENGETI_MOD_DIR)/cpu
45 ROOT_SERENGETI_CPU_DIR_64 = $(ROOT_SERENGETI_MOD_DIR)/cpu/$(SUBDIR64)
46 ROOT_SERENGETI_CPU_DIR = $(ROOT_SERENGETI_CPU_DIR_$(CLASS))

48 ROOT_SERENGETI_DRV_DIR_32 = $(ROOT_SERENGETI_MOD_DIR)/drv
49 ROOT_SERENGETI_DRV_DIR_64 = $(ROOT_SERENGETI_MOD_DIR)/drv/$(SUBDIR64)
50 ROOT_SERENGETI_DRV_DIR = $(ROOT_SERENGETI_DRV_DIR_$(CLASS))

52 ROOT_SERENGETI_MISC_DIR_32 = $(ROOT_SERENGETI_MOD_DIR)/misc
53 ROOT_SERENGETI_MISC_DIR_64 = $(ROOT_SERENGETI_MOD_DIR)/misc/$(SUBDIR64)
54 ROOT_SERENGETI_MISC_DIR = $(ROOT_SERENGETI_MISC_DIR_$(CLASS))

56 ROOT_SERENGETI_CRYPTODIR_32 = $(ROOT_SERENGETI_MOD_DIR)/crypto
57 ROOT_SERENGETI_CRYPTODIR_64 = $(ROOT_SERENGETI_MOD_DIR)/crypto/$(SUBDIR64)
58 ROOT_SERENGETI_CRYPTODIR = $(ROOT_SERENGETI_CRYPTODIR_$(CLASS))

60 ROOT_PLAT_MOD_DIRS += $(ROOT_SERENGETI_MOD_DIR)
```

new/usr/src/uts/sun4u/serengeti/Makefile.serengeti

2

```
61 ROOT_PLAT_MISC_DIRS_32 += $(ROOT_SERENGETI_MISC_DIR_32)

63 USR_SERENGETI_DIR = $(USR_PLAT_DIR)/SUNW,Sun-Fire
64 USR_SERENGETI_INC_DIR = $(USR_SERENGETI_DIR)/include
65 USR_SERENGETI_ISYS_DIR = $(USR_SERENGETI_INC_DIR)/sys
66 USR_SERENGETI_SBIN_DIR = $(USR_SERENGETI_DIR)/sbin
67 USR_SERENGETI_LIB_DIR = $(USR_SERENGETI_DIR)/lib

69 SERENGETI_LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/serengeti/lint-libs/$(O

71 #
72 # Include the makefiles which define build rule templates, the
73 # collection of files per module, and a few specific flags. Note
74 # that order is significant, just as with an include path. The
75 # first build rule template which matches the files name will be
76 # used. By including these in order from most machine dependent
77 # to most machine independent, we allow a machine dependent file
78 # to be used in preference over a machine independent version
79 # (Such as a machine specific optimization, which preserves the
80 # interfaces.)
81 #

83 #
84 # Links to UltraSparc III crypto modules
85 #
86 SERENGETI_CRYPTODIR += aes

88 include $(UTSBASE)/sun4u/serengeti/Makefile.files
89 include $(UTSTREE)/sun4u/serengeti/Makefile.files
89 #
90 # Include common rules.
91 #

93 include $(UTSBASE)/sun4u/Makefile.sun4u
94 include $(UTSTREE)/sun4u/Makefile.sun4u

95 #
96 # Define modules
97 #
98 SERENGETI_KMODS = cheetah cheetahplus
99 SERENGETI_KMODS += platmod sbdp sgcn sghsc sgsbbc ssm

101 #
102 # Everybody needs to know how to build modstubs.o and to locate unix.o
103 #
104 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/serengeti/unix
105 MODSTUBS_DIR = $(UNIX_DIR)
106 DSF_DIR = $(UTSBASE)/$(PLATFORM)/serengeti/genassym
107 LINTS_DIR = $(OBSJ_DIR)
108 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/serengeti/lint-libs/$(OBSJ_DIR)

110 UNIX_O = $(UNIX_DIR)/$(OBSJ_DIR)/unix.o

112 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln

114 #
115 # Define the actual specific platforms
116 #
117 MACHINE_DEFS = -D$(PLATFORM) -D_MACHDEP -DSFMMU -DMP -DMIXEDCPU_DR_SUPPORTED

119 #
120 # Define platform specific values
121 #
122 MACHINE_DEFS += -DNCPU=558
123 MACHINE_DEFS += -DMAX_CPU_CHIPID=554
124 MACHINE_DEFS += -DMAX_UPA=1024
```

```
125 MACHINE_DEFS += -DIGN_SIZE=10
126 MACHINE_DEFS += -DMAX_MEM_NODES=8
127 MACHINE_DEFS += -DLOCKED_DTLB_ENTRIES=6
128 # Max IOSRAM TOC major version number supported
129 MACHINE_DEFS += -DMAX_IOSRAM_TOC_VER=0x1
130 MACHINE_DEFS += -DC_OBP

132 # Define for inline pre-processing since
133 # cpp is not smart about v9 yet.
134 # It's not smart about __sparc either since it only predefines sparc.
135 CPP_DEFS_32 = -D__sparc
136 CPP_DEFS_64 = -D__sparc -D__sparcv9
137 CPP_DEFS = $(CPP_DEFS_$(CLASS))

139 #
140 # For now, disable these lint checks; maintainers should endeavor
141 # to investigate and remove these for maximum lint coverage.
142 # Please do not carry these forward to new Makefiles.
143 #
144 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
145 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
146 LINTTAGS += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
147 LINTTAGS += -erroff=E_STATIC_UNUSED
148 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
149 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV
```



new/usr/src/uts/sun4u/serengeti/Makefile.targ

1

```
*****
2514 Sun Nov 10 09:06:23 2013
new/usr/src/uts/sun4u/serengeti/Makefile.targ
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
3 #
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19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #
26 #
27 # Common targets for sun4u Serengeti implementation specific modules.
28 #
29 #
30 .KEEP_STATE:
31 #
32 #
33 # Rules for implementation subdirectories.
34 #
35 $(ROOT_SERENGETI_DIR): $(ROOT_PLAT_DIR)
36     -$(INS.dir)
37 #
38 $(ROOT_SERENGETI_MOD_DIR): $(ROOT_SERENGETI_DIR)
39     -$(INS.dir)
40 #
41 $(ROOT_SERENGETI_CPU_DIR_32): $(ROOT_SERENGETI_MOD_DIR)
42     -$(INS.dir)
43 #
44 $(ROOT_SERENGETI_CPU_DIR_64): $(ROOT_SERENGETI_CPU_DIR_32)
45     -$(INS.dir)
46 #
47 $(ROOT_SERENGETI_DRV_DIR_32): $(ROOT_SERENGETI_MOD_DIR)
48     -$(INS.dir)
49 #
50 $(ROOT_SERENGETI_DRV_DIR_64): $(ROOT_SERENGETI_DRV_DIR_32)
51     -$(INS.dir)
52 #
53 $(ROOT_SERENGETI_MISC_DIR_32): $(ROOT_SERENGETI_MOD_DIR)
54     -$(INS.dir)
55 #
56 $(ROOT_SERENGETI_MISC_DIR_64): $(ROOT_SERENGETI_MISC_DIR_32)
57     -$(INS.dir)
58 #
59 $(ROOT_SERENGETI_CRYPTODIR_32): $(ROOT_SERENGETI_MOD_DIR)
60     -$(INS.dir)
```

new/usr/src/uts/sun4u/serengeti/Makefile.targ

2

```
62 $(ROOT_SERENGETI_CRYPTODIR_64): $(ROOT_SERENGETI_CRYPTODIR_32)
63     -$(INS.dir)
64 #
65 $(USR_SERENGETI_DIR): $(USR_PLAT_DIR)
66     -$(INS.dir)
67 #
68 $(USR_SERENGETI_INC_DIR): $(USR_SERENGETI_DIR)
69     $(INS.slink4)
70 #
71 $(USR_SERENGETI_ISYS_DIR): $(USR_SERENGETI_INC_DIR)
72     $(INS.dir)
73 #
74 $(USR_SERENGETI_SBIN_DIR): $(USR_SERENGETI_DIR)
75     $(INS.slink5)
76 #
77 $(USR_SERENGETI_LIB_DIR): $(USR_SERENGETI_DIR)
78     -$(INS.dir)
79 #
80 $(ROOT_SERENGETI_MISC_DIR)/%: $(OBJDIR)/% $(ROOT_SERENGETI_MISC_DIR) FRC
81     $(INS.file)
82 #
83 $(ROOT_SERENGETI_CPU_DIR)/%: $(OBJDIR)/% $(ROOT_SERENGETI_CPU_DIR) FRC
84     $(INS.file)
85 #
86 $(ROOT_SERENGETI_DRV_DIR)/%: $(OBJDIR)/% $(ROOT_SERENGETI_DRV_DIR) FRC
87     $(INS.file)
88 #
89 $(ROOT_SERENGETI_KERN_DIR)/%: $(OBJDIR)/% $(ROOT_SERENGETI_KERN_DIR) FRC
90     $(INS.file)
91 #
92 #
93 # Include common targets.
94 #
95 include $(UTSBASE)/sun4u/serengeti/Makefile.rules
96 include $(UTSBASE)/sun4u/Makefile.targ
97 #
98 include $(UTSTREE)/sun4u/serengeti/Makefile.rules
99 #
100 include $(UTSTREE)/sun4u/Makefile.targ
```

```

*****
5049 Sun Nov 10 09:06:23 2013
new/usr/src/uts/sun4u/starcat/Makefile.starcat
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
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18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 #ident "%Z%M% %I% %E% SMI"
26 #
27 # Global definitions for sun4u starcat implementation specific modules.
28 #
29 # Define directories.
30 #
31 ROOT_STARCAT_DIR = $(ROOT_PLAT_DIR)/SUNW,Sun-Fire-15000
32 ROOT_STARCAT_MOD_DIR = $(ROOT_STARCAT_DIR)/kernel
33 ROOT_STARCAT_KERN_DIR_32 = $(ROOT_STARCAT_MOD_DIR)
34 ROOT_STARCAT_KERN_DIR_64 = $(ROOT_STARCAT_MOD_DIR)/$(SUBDIR64)
35 ROOT_STARCAT_MISC_DIR_32 = $(ROOT_STARCAT_MOD_DIR)/misc
36 ROOT_STARCAT_MISC_DIR_64 = $(ROOT_STARCAT_MOD_DIR)/misc/$(SUBDIR64)
37 ROOT_STARCAT_DRV_DIR_32 = $(ROOT_STARCAT_MOD_DIR)/drv
38 ROOT_STARCAT_DRV_DIR_64 = $(ROOT_STARCAT_MOD_DIR)/drv/$(SUBDIR64)
39 ROOT_STARCAT_CPU_DIR_32 = $(ROOT_STARCAT_MOD_DIR)/cpu
40 ROOT_STARCAT_CPU_DIR_64 = $(ROOT_STARCAT_MOD_DIR)/cpu/$(SUBDIR64)
41 ROOT_STARCAT_CRYPTODIR_32 = $(ROOT_STARCAT_MOD_DIR)/crypto
42 ROOT_STARCAT_CRYPTODIR_64 = $(ROOT_STARCAT_MOD_DIR)/crypto/$(SUBDIR64)
43 #
44 ROOT_STARCAT_KERN_DIR = $(ROOT_STARCAT_KERN_DIR_$(CLASS))
45 ROOT_STARCAT_MISC_DIR = $(ROOT_STARCAT_MISC_DIR_$(CLASS))
46 ROOT_STARCAT_DRV_DIR = $(ROOT_STARCAT_DRV_DIR_$(CLASS))
47 ROOT_STARCAT_CPU_DIR = $(ROOT_STARCAT_CPU_DIR_$(CLASS))
48 ROOT_STARCAT_CRYPTODIR = $(ROOT_STARCAT_CRYPTODIR_$(CLASS))
49 #
50 ROOT_PLAT_MOD_DIRS += $(ROOT_STARCAT_MOD_DIR)
51 ROOT_PLAT_MISC_DIRS_32 += $(ROOT_STARCAT_MISC_DIR_32)
52 #
53 USR_STARCAT_DIR = $(USR_PLAT_DIR)/SUNW,Sun-Fire-15000
54 USR_STARCAT_LIB_DIR = $(USR_STARCAT_DIR)/lib
55 USR_STARCAT_SBIN_DIR = $(USR_STARCAT_DIR)/sbin
56 USR_STARCAT_INC_DIR = $(USR_STARCAT_DIR)/include
57 USR_STARCAT_ISYS_DIR = $(USR_STARCAT_INC_DIR)/sys
58 #
59 STARCAT_LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/starcat/lint-libs/$(OBJS_DIR)

```

```

61 #
62 # Include the makefiles which define build rule templates, the
63 # collection of files per module, and a few specific flags. Note
64 # that order is significant, just as with an include path. The
65 # first build rule template which matches the files name will be
66 # used. By including these in order from most machine dependent
67 # to most machine independent, we allow a machine dependent file
68 # to be used in preference over a machine independent version
69 # (Such as a machine specific optimization, which preserves the
70 # interfaces.)
71 #
72 include $(UTSBASE)/sun4u/ngdr/Makefile.files
73 include $(UTSBASE)/sun4u/starcat/Makefile.files
74 #
75 include $(UTSTREE)/sun4u/starcat/Makefile.files
76 #
77 #
78 # Include common rules.
79 #
80 #
81 # Define modules
82 #
83 STARCAT_KMODS += axq
84 STARCAT_KMODS += cvc
85 STARCAT_KMODS += cvcredir
86 STARCAT_KMODS += dman
87 STARCAT_KMODS += dr
88 STARCAT_KMODS += drmach
89 STARCAT_KMODS += fcgp2
90 STARCAT_KMODS += gptwo_pci
91 STARCAT_KMODS += iosram
92 STARCAT_KMODS += mboxsc
93 STARCAT_KMODS += platmod
94 STARCAT_KMODS += sc_gptwocfg
95 STARCAT_KMODS += schpc
96 STARCAT_KMODS += sckmdrv
97 STARCAT_KMODS += scosmb
98 #
99 #
100 # Define CPU modules.
101 #
102 STARCAT_CPU_KMODS += cheetah cheetahplus
103 #
104 #
105 # Links to UltraSparc III crypto modules
106 #
107 STARCAT_CRYPTOLINKS = aes
108 #
109 #
110 # Everybody needs to know how to build modstubs.o and to locate unix.o
111 #
112 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/starcat/unix
113 MODSTUBS_DIR = $(UNIX_DIR)
114 DSF_DIR = $(UTSBASE)/$(PLATFORM)/starcat/genassym
115 LINTS_DIR = $(OBJS_DIR)
116 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/starcat/lint-libs/$(OBJS_DIR)
117 #
118 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
119 #
120 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
121 #
122 #
123 # Define the actual specific platforms

```

```
124 #
125 MACHINE_DEFS    = -D$(PLATFORM) -D_MACHDEP -DSFMMU -DMP -DMIXEDCPU_DR_SUPPORTED
126 MACHINE_DEFS    += -D_CPU_SIGNATURE

128 #
129 #       Define platform specific value
130 #
131 MACHINE_DEFS    += -DNCPU=558
132 MACHINE_DEFS    += -DMAX_CPU_CHIPID=554
133 MACHINE_DEFS    += -DMAX_UPA=1024
134 MACHINE_DEFS    += -DIGN_SIZE=10
135 MACHINE_DEFS    += -DMAX_MEM_NODES=18

137 #
138 #       Define for inline pre-processing since
139 #       cpp not smart about v9 yet.
140 #       It's not smart about __sparc either since it only predefines sparc.
141 CPP_DEFS_32     = -D__sparc
142 CPP_DEFS_64     = -D__sparc -D__sparcv9
143 CPP_DEFS        = $(CPP_DEFS_$(CLASS))

145 #
146 # For now, disable these lint checks; maintainers should endeavor
147 # to investigate and remove these for maximum lint coverage.
148 # Please do not carry these forward to new Makefiles.
149 #
150 LINTTAGS        += -erroff=E_SUSPICIOUS_COMPARISON
151 LINTTAGS        += -erroff=E_BAD_PTR_CAST_ALIGN
152 LINTTAGS        += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
153 LINTTAGS        += -erroff=E_STATIC_UNUSED
154 LINTTAGS        += -erroff=E_PTRDIFF_OVERFLOW
155 LINTTAGS        += -erroff=E_ASSIGN_NARROW_CONV
```

new/usr/src/uts/sun4u/starcat/Makefile.targ

1

```
*****
2482 Sun Nov 10 09:06:23 2013
new/usr/src/uts/sun4u/starcat/Makefile.targ
*** NO COMMENTS ***
*****
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18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # Common targets for sun4u starcat implementation specific modules.
27 #
28 #
29 .KEEP_STATE:
30 #
31 #
32 # Rules for implementation subdirectories.
33 #
34 $(ROOT_STARCAT_DIR): $(ROOT_PLAT_DIR)
35     -$(INS.dir)
36 #
37 $(ROOT_STARCAT_MOD_DIR): $(ROOT_STARCAT_DIR)
38     -$(INS.dir)
39 #
40 $(ROOT_STARCAT_CPU_DIR_32): $(ROOT_STARCAT_MOD_DIR)
41     -$(INS.dir)
42 #
43 $(ROOT_STARCAT_CPU_DIR_64): $(ROOT_STARCAT_CPU_DIR_32)
44     -$(INS.dir)
45 #
46 $(ROOT_STARCAT_DRV_DIR_32): $(ROOT_STARCAT_MOD_DIR)
47     -$(INS.dir)
48 #
49 $(ROOT_STARCAT_DRV_DIR_64): $(ROOT_STARCAT_DRV_DIR_32)
50     -$(INS.dir)
51 #
52 $(ROOT_STARCAT_MISC_DIR_32): $(ROOT_STARCAT_MOD_DIR)
53     -$(INS.dir)
54 #
55 $(ROOT_STARCAT_MISC_DIR_64): $(ROOT_STARCAT_MISC_DIR_32)
56     -$(INS.dir)
57 #
58 $(ROOT_STARCAT_CRYPTODIR_32): $(ROOT_STARCAT_MOD_DIR)
59     -$(INS.dir)
60 #
61 $(ROOT_STARCAT_CRYPTODIR_64): $(ROOT_STARCAT_CRYPTODIR_32)
```

new/usr/src/uts/sun4u/starcat/Makefile.targ

2

```
62     -$(INS.dir)
63 #
64 $(USR_STARCAT_DIR): $(USR_PLAT_DIR)
65     -$(INS.dir)
66 #
67 $(USR_STARCAT_INC_DIR): $(USR_STARCAT_DIR)
68     $(INS.slink4)
69 #
70 $(USR_STARCAT_SBIN_DIR): $(USR_STARCAT_DIR)
71     -$(INS.slink5)
72 #
73 $(USR_STARCAT_LIB_DIR): $(USR_STARCAT_DIR)
74     -$(INS.dir)
75 #
76 $(USR_STARCAT_ISYS_DIR): $(USR_STARCAT_INC_DIR)
77     $(INS.dir)
78 #
79 $(ROOT_STARCAT_KERN_DIR)/%: $(OBSJSDIR)/% $(ROOT_STARCAT_KERN_DIR) FRC
80     $(INS.file)
81 #
82 $(ROOT_STARCAT_DRV_DIR)/%: $(OBSJSDIR)/% $(ROOT_STARCAT_DRV_DIR) FRC
83     $(INS.file)
84 #
85 $(ROOT_STARCAT_CPU_DIR)/%: $(OBSJSDIR)/% $(ROOT_STARCAT_CPU_DIR) FRC
86     $(INS.file)
87 #
88 $(ROOT_STARCAT_MISC_DIR)/%: $(OBSJSDIR)/% $(ROOT_STARCAT_MISC_DIR) FRC
89     $(INS.file)
90 #
91 #
92 # Include common targets.
93 #
94 include $(UTSBASE)/sun4u/ngdr/Makefile.rules
95 include $(UTSBASE)/sun4u/starcat/Makefile.rules
96 include $(UTSBASE)/sun4u/Makefile.targ
97 include $(UTSTREE)/sun4u/starcat/Makefile.rules
98 include $(UTSTREE)/sun4u/Makefile.targ
```

new/usr/src/uts/sun4u/sunfire/Makefile.sunfire

1

```
*****
2602 Sun Nov 10 09:06:23 2013
new/usr/src/uts/sun4u/sunfire/Makefile.sunfire
*** NO COMMENTS ***
*****
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21 #
22 #
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24 # Use is subject to license terms.
25 #
26 # Global definitions for sun4u implementation specific modules.
27 #
28 #
29 #
30 # Define the name of this implementation.
31 #
32 #
33 #
34 # Define directories.
35 #
36 ROOT_SUNFIRE_DIR = $(ROOT_PLAT_DIR)/SUNW,Ultra-Enterprise
37 ROOT_SUNFIRE_MOD_DIR = $(ROOT_SUNFIRE_DIR)/kernel
38 #
39 ROOT_SUNFIRE_DRV_DIR_32 = $(ROOT_SUNFIRE_MOD_DIR)/drv
40 ROOT_SUNFIRE_DRV_DIR_64 = $(ROOT_SUNFIRE_MOD_DIR)/drv/$(SUBDIR64)
41 ROOT_SUNFIRE_DRV_DIR = $(ROOT_SUNFIRE_DRV_DIR_$(CLASS))
42 ROOT_PLAT_DRV_DIRS = $(ROOT_SUNFIRE_DRV_DIR)
43 #
44 ROOT_SUNFIRE_MISC_DIR_32 = $(ROOT_SUNFIRE_MOD_DIR)/misc
45 ROOT_SUNFIRE_MISC_DIR_64 = $(ROOT_SUNFIRE_MOD_DIR)/misc/$(SUBDIR64)
46 ROOT_SUNFIRE_MISC_DIR = $(ROOT_SUNFIRE_MISC_DIR_$(CLASS))
47 #
48 USR_SUNFIRE_DIR = $(USR_PLAT_DIR)/SUNW,Ultra-Enterprise
49 USR_SUNFIRE_INC_DIR = $(USR_SUNFIRE_DIR)/include
50 USR_SUNFIRE_ISYS_DIR = $(USR_SUNFIRE_INC_DIR)/sys
51 USR_SUNFIRE_SBIN_DIR = $(USR_SUNFIRE_DIR)/sbin
52 USR_SUNFIRE_LIB_DIR = $(USR_SUNFIRE_DIR)/lib
53 #
54 SUNFIRE_LINT_LIB_DIR= $(UTSBASE)/$(PLATFORM)/sunfire/lint-libs/$(OBJS_DIR)
55 #
56 #
57 # Define objects.
58 #
59 SUNFIRE_OBJS = sunfire.o
60 #
61 include $(UTSBASE)/sun4u/sunfire/Makefile.files
```

new/usr/src/uts/sun4u/sunfire/Makefile.sunfire

2

```
61 include $(UTSTREE)/sun4u/sunfire/Makefile.files
62 #
63 #
64 # Include common rules.
65 #
66 include $(UTSBASE)/sun4u/Makefile.sun4u
67 include $(UTSTREE)/sun4u/Makefile.sun4u
68 #
69 # Define modules (must come after Makefile.sun4u).
70 #
71 SUNFIRE_KMODS = ac central environ fhc simmstat sysctrl sram
72 #
73 #
74 # For now, disable these lint checks; maintainers should endeavor
75 # to investigate and remove these for maximum lint coverage.
76 # Please do not carry these forward to new Makefiles.
77 #
78 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
79 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
80 LINTTAGS += -erroff=E_SUPPRESSION_DIRECTIVE_UNUSED
81 LINTTAGS += -erroff=E_STATIC_UNUSED
82 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
83 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV
```

new/usr/src/uts/sun4u/sunfire/Makefile.targ

1

```
*****
2045 Sun Nov 10 09:06:24 2013
new/usr/src/uts/sun4u/sunfire/Makefile.targ
*** NO COMMENTS ***
*****
1 #
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19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright 2009 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 #
27 #
28 #     Common targets for sun4u implementation specific modules.
29 #
30 #
31 .KEEP_STATE:
32 #
33 #
34 # Rules for implementation subdirectories.
35 #
36 $(ROOT_SUNFIRE_DIR): $(ROOT_PLAT_DIR)
37     -$(INS.dir)
38 #
39 $(ROOT_SUNFIRE_MOD_DIR): $(ROOT_SUNFIRE_DIR)
40     -$(INS.dir)
41 #
42 $(ROOT_SUNFIRE_MISC_DIR_32): $(ROOT_SUNFIRE_MOD_DIR)
43     -$(INS.dir)
44 #
45 $(ROOT_SUNFIRE_MISC_DIR_64): $(ROOT_SUNFIRE_MISC_DIR_32)
46     -$(INS.dir)
47 #
48 $(ROOT_SUNFIRE_DRV_DIR_32): $(ROOT_SUNFIRE_MOD_DIR)
49     -$(INS.dir)
50 #
51 $(ROOT_SUNFIRE_DRV_DIR_64): $(ROOT_SUNFIRE_DRV_DIR_32)
52     -$(INS.dir)
53 #
54 $(USR_SUNFIRE_DIR): $(USR_PLAT_DIR)
55     -$(INS.dir)
56 #
57 $(USR_SUNFIRE_INC_DIR):          $(USR_SUNFIRE_DIR) $(USR_PSM_INCL_DIR)
58     $(INS.slink4)
59 #
60 $(USR_SUNFIRE_ISYS_DIR): $(USR_SUNFIRE_INC_DIR)
61     $(INS.dir)
```

new/usr/src/uts/sun4u/sunfire/Makefile.targ

2

```
63 $(USR_SUNFIRE_SBIN_DIR):          $(USR_SUNFIRE_DIR) $(USR_PSM_SBIN_DIR)
64     $(INS.slink5)
65 #
66 $(USR_SUNFIRE_LIB_DIR):           $(USR_SUNFIRE_DIR) $(USR_PSM_LIB_DIR)
67     -$(INS.dir)
68 #
69 $(ROOT_SUNFIRE_MISC_DIR)/%: $(OBJDIR)/% $(ROOT_SUNFIRE_MISC_DIR) FRC
70     $(INS.file)
71 #
72 $(ROOT_SUNFIRE_DRV_DIR)/%: $(OBJDIR)/% $(ROOT_SUNFIRE_DRV_DIR) FRC
73     $(INS.file)
74 #
75 #
76 #     Include common targets.
77 #
78 include $(UTSBASE)/sun4u/sunfire/Makefile.rules
79 include $(UTSBASE)/sun4u/Makefile.targ
80 include $(UTSTREE)/sun4u/sunfire/Makefile.rules
81 include $(UTSTREE)/sun4u/Makefile.targ
```

new/usr/src/uts/sun4u/tazmo/Makefile.targ

1

```
*****
2000 Sun Nov 10 09:06:24 2013
new/usr/src/uts/sun4u/tazmo/Makefile.targ
*** NO COMMENTS ***
*****
1 #
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24 #

26 #
27 #     Common targets for sun4u Tazmo implementation specific modules.
28 #

30 IMPLEMENTED_PLATFORM = SUNW,Ultra-4

32 .KEEP_STATE:

34 #
35 # Rules for implementation subdirectories.
36 #
37 $(ROOT_TAZMO_DIR): $(ROOT_PLAT_DIR)
38     -$(INS.dir)

40 $(ROOT_TAZMO_MOD_DIR): $(ROOT_TAZMO_DIR)
41     -$(INS.dir)

43 $(ROOT_TAZMO_DRV_DIR_32): $(ROOT_TAZMO_MOD_DIR)
44     -$(INS.dir)

46 $(ROOT_TAZMO_DRV_DIR_64): $(ROOT_TAZMO_DRV_DIR_32)
47     -$(INS.dir)

49 $(ROOT_TAZMO_MISC_DIR_32): $(ROOT_TAZMO_MOD_DIR)
50     -$(INS.dir)

52 $(ROOT_TAZMO_MISC_DIR_64): $(ROOT_TAZMO_MISC_DIR_32)
53     -$(INS.dir)

55 $(USR_TAZMO_DIR): $(USR_PLAT_DIR)
56     -$(INS.dir)

58 $(USR_TAZMO_INC_DIR): $(USR_TAZMO_DIR)
59     -$(INS.slink4)

61 $(USR_TAZMO_SBIN_DIR): $(USR_TAZMO_DIR)
```

new/usr/src/uts/sun4u/tazmo/Makefile.targ

2

```
62     -$(INS.slink5)

64 $(USR_TAZMO_LIB_DIR): $(USR_TAZMO_DIR)
65     -$(INS.dir)

67 $(ROOT_TAZMO_MOD_DIR)/%: $(OBSJ_DIR)/% $(ROOT_TAZMO_MOD_DIR) FRC
68     $(INS.file)

70 $(ROOT_TAZMO_MISC_DIR)/%: $(OBSJ_DIR)/% $(ROOT_TAZMO_MISC_DIR) FRC
71     $(INS.file)

73 $(ROOT_TAZMO_DRV_DIR)/%: $(OBSJ_DIR)/% $(ROOT_TAZMO_DRV_DIR) FRC
74     $(INS.file)

76 #
77 #     Include common targets.
78 #
79 include $(UTSBASE)/sun4u/tazmo/Makefile.rules
80 include $(UTSBASE)/sun4u/Makefile.targ
79 include $(UTSTREE)/sun4u/tazmo/Makefile.rules
80 include $(UTSTREE)/sun4u/Makefile.targ
```

new/usr/src/uts/sun4u/tazmo/Makefile.tazmo

1

```
*****
2766 Sun Nov 10 09:06:24 2013
new/usr/src/uts/sun4u/tazmo/Makefile.tazmo
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
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21 #
22 # uts/sun4u/tazmo/Makefile.impl
23 # Copyright 2006 Sun Microsystems, Inc. All rights reserved.
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25 #
26 # Global definitions for sun4u implementation specific modules.
27 #
28 #
29 #
30 # Define directories.
31 #
32 ROOT_TAZMO_DIR = $(ROOT_PLAT_DIR)/SUNW,Ultra-4
33 ROOT_TAZMO_MOD_DIR = $(ROOT_TAZMO_DIR)/kernel
34 #
35 ROOT_TAZMO_KERN_DIR_32 = $(ROOT_TAZMO_MOD_DIR)
36 ROOT_TAZMO_KERN_DIR_64 = $(ROOT_TAZMO_MOD_DIR)/$(SUBDIR64)
37 ROOT_TAZMO_DRV_DIR_32 = $(ROOT_TAZMO_MOD_DIR)/drv
38 ROOT_TAZMO_DRV_DIR_64 = $(ROOT_TAZMO_MOD_DIR)/drv/$(SUBDIR64)
39 ROOT_TAZMO_MISC_DIR_32 = $(ROOT_TAZMO_MOD_DIR)/misc
40 ROOT_TAZMO_MISC_DIR_64 = $(ROOT_TAZMO_MOD_DIR)/misc/$(SUBDIR64)
41 #
42 ROOT_TAZMO_KERN_DIR = $(ROOT_TAZMO_KERN_DIR_$(CLASS))
43 ROOT_TAZMO_MISC_DIR = $(ROOT_TAZMO_MISC_DIR_$(CLASS))
44 ROOT_TAZMO_DRV_DIR = $(ROOT_TAZMO_DRV_DIR_$(CLASS))
45 #
46 ROOT_PLAT_MOD_DIRS += $(ROOT_TAZMO_MOD_DIR)
47 ROOT_PLAT_MISC_DIRS += $(ROOT_TAZMO_MISC_DIR)
48 ROOT_PLAT_MISC_DIRS_32 += $(ROOT_TAZMO_MISC_DIR_32)
49 ROOT_PLAT_DRV_DIRS = $(ROOT_TAZMO_DRV_DIR)
50 #
51 USR_TAZMO_DIR = $(USR_PLAT_DIR)/SUNW,Ultra-4
52 USR_TAZMO_LINKED_DIR = $(USR_PLAT_DIR)/$(LINKED_PLATFORM)
53 USR_TAZMO_INC_DIR = $(USR_TAZMO_DIR)/include
54 USR_TAZMO_ISYS_DIR = $(USR_TAZMO_INC_DIR)/sys
55 USR_TAZMO_SBIN_DIR = $(USR_TAZMO_DIR)/sbin
56 USR_TAZMO_LIB_DIR = $(USR_TAZMO_DIR)/lib
57 #
58 TAZMO_LINT_LIB_DIR= $(UTSBASE)/$(PLATFORM)/tazmo/lint-libs/$(OBJS_DIR)
59 #
60 #
61 # Define objects.
```

new/usr/src/uts/sun4u/tazmo/Makefile.tazmo

2

```
62 #
63 TAZMO_OBJS = tazmo.o
64 #
65 include $(UTSBASE)/sun4u/tazmo/Makefile.files
66 #
67 #
68 # Include common rules.
69 #
70 include $(UTSBASE)/sun4u/Makefile.sun4u
71 include $(UTSTREE)/sun4u/Makefile.sun4u
72 #
73 # Define modules (must come after Makefile.sun4u).
74 #
75 TAZMO_KMODS = platmod
76 TAZMO_KMODS += envctrl
77 #
78 #
79 # For now, disable these lint checks; maintainers should endeavor
80 # to investigate and remove these for maximum lint coverage.
81 # Please do not carry these forward to new Makefiles.
82 #
83 LINTTAGS += -erroff=E_PTRDIFF_OVERFLOW
84 LINTTAGS += -erroff=E_BAD_PTR_CAST_ALIGN
85 LINTTAGS += -erroff=E_ASSIGN_NARROW_CONV
86 LINTTAGS += -erroff=E_SUSPICIOUS_COMPARISON
```



new/usr/src/uts/sun4v/Makefile.sun4v

1

```
*****
12121 Sun Nov 10 09:06:24 2013
new/usr/src/uts/sun4v/Makefile.sun4v
*** NO COMMENTS ***
*****
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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 #
27 # This makefile contains the common definitions for the sun4v unix
28 # and all sun4v implementation architecture dependent modules.
29 #
30 #
31 #
32 # Machine type (implementation architecture):
33 #
34 PLATFORM = sun4v
35 LINKED_PLATFORMS += SUNW,Sun-Fire-T1000
36 LINKED_PLATFORMS += SUNW,SPARC-Enterprise-T5120
37 LINKED_PLATFORMS += SUNW,SPARC-Enterprise-T5220
38 LINKED_PLATFORMS += SUNW,T5140
39 LINKED_PLATFORMS += SUNW,T5240
40 LINKED_PLATFORMS += SUNW,T5440
41 LINKED_PLATFORMS += SUNW,SPARC-Enterprise-T1000
42 LINKED_PLATFORMS += SUNW,Sun-Blade-T6300
43 LINKED_PLATFORMS += SUNW,Sun-Blade-T6320
44 LINKED_PLATFORMS += SUNW,Netra-CP3260
45 LINKED_PLATFORMS += SUNW,Netra-T5220
46 LINKED_PLATFORMS += SUNW,USBRDT-5240
47 LINKED_PLATFORMS += SUNW,Netra-T5440
48 LINKED_PLATFORMS += SUNW,Sun-Blade-T6340
49 PROMIF = ieee1275
50 PSMBASE = $(UTSBASE)/../psm
51 #
52 #
53 # uname -m value
54 #
55 UNAME_M = $(PLATFORM)
56 #
57 #
58 # Definitions for the platform-specific /platform directories.
59 #
60 # PLATFORMS designates those sun4v machines which have no platform
61 # specific code.
```

new/usr/src/uts/sun4v/Makefile.sun4v

2

```
62 #
63 # IMPLEMENTATIONS is used to designate sun4v machines which have
64 # platform specific modules. All code specific to a given implementation
65 # resides in the appropriately named subdirectory. This requires
66 # these platforms to have their own Makefiles to define ROOT_PLAT_DIRS,
67 # USR_PLAT_DIRS, etc.
68 # The number of IMPLEMENTATIONS should not grow!
69 #
70 # So if we had an implementation named 'foo', we would need the following
71 # Makefiles in the foo subdirectory:
72 #
73 # sun4v/foo/Makefile
74 # sun4v/foo/Makefile.foo
75 # sun4v/foo/Makefile.targ
76 #
77 #
78 #
79 # all PLATFORMS that do not belong in the $(IMPLEMENTATIONS) list.
80 # This list should be empty. A platform without platform modules
81 # is a plain, generic sun4v platform.
82 #
83 #IMPLEMENTED_PLATFORM =
84 #PLATFORMS = $(IMPLEMENTED_PLATFORM)
85 #
86 IMPLEMENTATIONS = ontario montoya huron maramba
87 #
88 #ROOT_PLAT_DIRS = $(PLATFORMS:%=$(ROOT_PLAT_DIR)/%)
89 #USR_PLAT_DIRS = $(PLATFORMS:%=$(USR_PLAT_DIR)/%)
90 #
91 #USR_DESKTOP_DIR = $(USR_PLAT_DIR)/$(IMPLEMENTED_PLATFORM)
92 #USR_DESKTOP_INC_DIR = $(USR_DESKTOP_DIR)/include
93 #USR_DESKTOP_SBIN_DIR = $(USR_DESKTOP_DIR)/sbin
94 #USR_DESKTOP_LIB_DIR = $(USR_DESKTOP_DIR)/lib
95 #
96 #
97 # Define supported builds
98 #
99 DEF_BUILDS = $(DEF_BUILDS64)
100 ALL_BUILDS = $(ALL_BUILDS64)
101 #
102 #
103 # Everybody needs to know how to build modstubs.o and to locate unix.o
104 #
105 UNIX_DIR = $(UTSBASE)/$(PLATFORM)/unix
106 GENLIB_DIR = $(UTSBASE)/$(PLATFORM)/genunix
107 MODSTUBS_DIR = $(UNIX_DIR)
108 DSF_DIR = $(UTSBASE)/$(PLATFORM)/genassym
109 LINTS_DIR = $(OBJS_DIR)
110 LINT_LIB_DIR = $(UTSBASE)/$(PLATFORM)/lint-libs/$(OBJS_DIR)
111 #
112 DTRACESTUBS_O = $(OBJS_DIR)/dtracestubs.o
113 DTRACESTUBS = $(OBJS_DIR)/libdtracestubs.so
114 #
115 UNIX_O = $(UNIX_DIR)/$(OBJS_DIR)/unix.o
116 MODSTUBS_O = $(MODSTUBS_DIR)/$(OBJS_DIR)/modstubs.o
117 GENLIB = $(GENLIB_DIR)/$(OBJS_DIR)/libgenunix.so
118 #
119 LINT_LIB = $(LINT_LIB_DIR)/llib-lunix.ln
120 GEN_LINT_LIB = $(LINT_LIB_DIR)/llib-lgenunix.ln
121 #
122 LINT64_DIRS = $(LINT64_BUILDS:%=$(UTSBASE)/$(PLATFORM)/lint-libs/%)
123 LINT64_FILES = $(LINT64_DIRS:%=%/llib-l$(MODULE).ln)
124 #
125 #
126 # cpu and platform modules need to know how to build their own symcheck mo
127 #
```

```

128 PLATMOD          = platmod
129 PLATLIB          = $(PLAT_DIR)/$(OBJSDIR)/libplatmod.so

131 CPUNAME          = cpu
132 CPULIB           = $(CPU_DIR)/$(OBJSDIR)/libcpu.so

134 SYM_MOD          = $(OBJSDIR)/unix.sym

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

157 #
158 #   Include machine independent rules. Note that this does not imply
159 #   that the resulting module from rules in Makefile.uts is machine
160 #   independent. Only that the build rules are machine independent.
161 #
162 include $(UTSBASE)/Makefile.uts

164 CTFMERGE_GUDIR = sun4v

166 #
167 #   machine specific optimization, override default in Makefile.master
168 #
169 CC_XARCH          = -m64 -xarch=sparcv9
170 AS_XARCH          = -xarch=v9v
171 COPTIMIZE         = -xO3
172 CCMODE            = -Xa

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

```

```

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

196 CPPFLAGS          += -DGLREG

198 ASFLAGS           += $(AS_XARCH) -DGLREG

200 AS_INC_PATH       += -I$(DSF_DIR)/$(OBJSDIR)

202 LINT_KMODS        += $(GENUNIX_KMODS)

204 LINT_DEFS         = -m64

206 #
207 #   The following must be defined for all implementations:
208 #
209 #   MAPFILE:          ld mapfile for the build of kernel/unix.
210 #   MODSTUBS:         Module stubs source file.
211 #   GENCONST_SRC:     genconst.c
212 #   OFFSETS:          offsets.in
213 #   PLATFORM_OFFSETS: Platform specific mach_offsets.in
214 #   FDOFFSETS:        fd_offsets.in
215 #
216 MAPFILE           = $(UTSBASE)/sun4/conf/Mapfile
217 MODSTUBS          = $(UTSBASE)/sparc/ml/modstubs.s
218 GENCONST_SRC      = $(UTSBASE)/sun4/ml/genconst.c
219 OFFSETS           = $(UTSBASE)/sun4/ml/offsets.in
220 PLATFORM_OFFSETS = $(UTSBASE)/sun4v/ml/mach_offsets.in
221 FDOFFSETS         = $(UTSBASE)/sun/io/fd_offsets.in

223 #
224 #   Define the actual specific platforms
225 #

227 MACHINE_DEFS     = -D$(PLATFORM) -D_MACHDEP -DSFMMU
228 MACHINE_DEFS     += -D_MAX_MEM_NODES=8

230 #
231 #   Software workarounds for hardware "features"
232 #

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

236 #
237 #   Debugging level
238 #
239 #   Special knowledge of which special debugging options effect which
240 #   file is used to optimize the build if these flags are changed.
241 #
242 #   XXX: The above could possibly be done for more flags and files, but
243 #   is left as an experiment to the interested reader. Be forewarned,
244 #   that excessive use could lead to maintenance difficulties.
245 #
246 #   Note: kslice can be enabled for the sun4v, but is disabled by default
247 #   in all cases.
248 #

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

254 DEBUG_COND_OBJ64 = $(POUND_SIGN)
255 DEBUG_COND_DBG64 =
256 IF_DEBUG_OBJ      = $(DEBUG_COND_$(BUILD_TYPE))$(OBJSDIR)/

```

```

258 $(IF_DEBUG_OBJ)trap.o      :=      DEBUG_DEFS      += -DTRAPDEBUG
259 $(IF_DEBUG_OBJ)mach_trap.o :=      DEBUG_DEFS      += -DTRAPDEBUG
260 $(IF_DEBUG_OBJ)syscall_trap.o :=     DEBUG_DEFS      += -DSYSCALLTRACE
261 $(IF_DEBUG_OBJ)clock.o     :=      DEBUG_DEFS      += -DKSLICE=0

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

267 $(IF_TRAPTRACE_OBJ)mach_locore.o :=     DEBUG_DEFS      += -DTRAPTRACE
268 $(IF_TRAPTRACE_OBJ)mlsetup.o   :=     DEBUG_DEFS      += -DTRAPTRACE
269 $(IF_TRAPTRACE_OBJ)syscall_trap.o :=     DEBUG_DEFS      += -DTRAPTRACE
270 $(IF_TRAPTRACE_OBJ)startup.o   :=     DEBUG_DEFS      += -DTRAPTRACE
271 $(IF_TRAPTRACE_OBJ)mach_startup.o :=    DEBUG_DEFS      += -DTRAPTRACE
272 $(IF_TRAPTRACE_OBJ)mp_startup.o :=    DEBUG_DEFS      += -DTRAPTRACE
273 $(IF_TRAPTRACE_OBJ)cpu_states.o :=    DEBUG_DEFS      += -DTRAPTRACE
274 $(IF_TRAPTRACE_OBJ)mach_cpu_states.o := DEBUG_DEFS      += -DTRAPTRACE
275 $(IF_TRAPTRACE_OBJ)interrupt.o :=     DEBUG_DEFS      += -DTRAPTRACE
276 $(IF_TRAPTRACE_OBJ)mach_interrupt.o :=  DEBUG_DEFS      += -DTRAPTRACE
277 $(IF_TRAPTRACE_OBJ)sfmmu_asm.o :=     DEBUG_DEFS      += -DTRAPTRACE
278 $(IF_TRAPTRACE_OBJ)trap_table.o :=    DEBUG_DEFS      += -DTRAPTRACE
279 $(IF_TRAPTRACE_OBJ)xc.o        :=     DEBUG_DEFS      += -DTRAPTRACE
280 $(IF_TRAPTRACE_OBJ)mach_xc.o   :=     DEBUG_DEFS      += -DTRAPTRACE
281 $(IF_TRAPTRACE_OBJ)wbuf.o      :=     DEBUG_DEFS      += -DTRAPTRACE
282 $(IF_TRAPTRACE_OBJ)trap.o      :=     DEBUG_DEFS      += -DTRAPTRACE
283 $(IF_TRAPTRACE_OBJ)mach_trap.o :=     DEBUG_DEFS      += -DTRAPTRACE
284 $(IF_TRAPTRACE_OBJ)x_call.o    :=     DEBUG_DEFS      += -DTRAPTRACE

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

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

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

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

295 #
296 #     Collect the preprocessor definitions to be associated with *all*
297 #     files.
298 #
299 ALL_DEFS      = $(MACHINE_DEFS) $(WORKAROUND_DEFS) $(DEBUG_DEFS) \
300                $(OPTION_DEFS)
301 GENCONST_DEFS = $(MACHINE_DEFS) $(OPTION_DEFS)

303 #
304 # ----- TRANSITIONAL SECTION -----
305 #

307 #
308 #     Not everything which *should* be a module is a module yet. The
309 #     following is a list of such objects which are currently part of
310 #     the base kernel but should soon become kmods.
311 #
312 MACH_NOT_YET_KMODS      = $(AUTOCONF_OBJS)

314 #
315 # ----- END OF TRANSITIONAL SECTION -----
316 #

318 #
319 #     The kernels modules which are "implementation architecture"
320 #     specific for this machine are enumerated below. Note that most
321 #     of these modules must exist (in one form or another) for each
322 #     architecture.

```

```

323 #
324 #     Common Drivers (usually pseudo drivers) (/kernel/drv):
325 #

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

361 #
362 #     Exec Class Modules (/kernel/exec):
363 #
364 EXEC_KMODS      +=

366 #
367 #     Scheduling Class Modules (/kernel/sched):
368 #
369 SCHED_KMODS      +=

371 #
372 #     File System Modules (/kernel/fs):
373 #
374 FS_KMODS      +=

376 #
377 #     Streams Modules (/kernel/strmod):
378 #
379 STRMOD_KMODS    += kb

381 #
382 #     'System' Modules (/kernel/sys):
383 #
384 SYS_KMODS      +=

386 #
387 #     'User' Modules (/kernel/misc):
388 #

```

```
389 MISC_KMODS      += bootdev
390 MISC_KMODS      += dr_cpu
391 MISC_KMODS      += dr_io
392 MISC_KMODS      += dr_mem
393 MISC_KMODS      += ds
394 MISC_KMODS      += fault_iso
395 MISC_KMODS      += ldc
396 MISC_KMODS      += obpsym
397 MISC_KMODS      += platmod
398 MISC_KMODS      += platsvc
399 MISC_KMODS      += vis
400 MISC_KMODS      += pcie

402 #      md5 optimized for Niagara
403 #
404 MISC_KMODS      += md5

406 #
407 #      Brand modules
408 #
409 BRAND_KMODS     += snl_brand s10_brand

411 #
412 #      Software Cryptographic Providers (/kernel/crypto):
413 #
414 CRYPTO_KMODS    += arcfour

416 #
417 #      generic-unix module (/kernel/genunix):
418 #
419 GENUNIX_KMODS   += genunix

421 #
422 #      Modules eXcluded from the product:
423 #
424 XMODS           +=

426 #
427 #      cpu modules
428 #
429 CPU_KMODS       += generic niagara niagara2 vfalls kt

431 LINT_CPU_KMODS  += generic

433 #
434 #      Performance Counter BackEnd Modules (/usr/kernel/pcbe):
435 #
436 PCBE_KMODS      += niagara_pcbe
437 PCBE_KMODS      += niagara2_pcbe
438 PCBE_KMODS      += vfalls_pcbe
439 PCBE_KMODS      += kt_pcbe
```

new/usr/src/uts/sun4v/Makefile.targ

1

\*\*\*\*\*

1641 Sun Nov 10 09:06:24 2013

new/usr/src/uts/sun4v/Makefile.targ

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

```
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, Version 1.0 only
6 # (the "License"). You may not use this file except in compliance
7 # with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 # uts/sun4v/Makefile.targ
24 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 #ident "%Z%M% %I% %E% SMI"
28 #
29 #
30 #
31 #
32 # Targets for all implementations:
33 #
34 include $(UTSBASE)/Makefile.targ
35 #
36 #
37 # Target set for sun4v (order is somewhat important, sun4 should come
38 # after sun4v)
39 #
40 include $(UTSBASE)/sun4/Makefile.rules
41 include $(UTSBASE)/sun4v/Makefile.rules
42 include $(UTSBASE)/sun4v/Makefile.rules
43 include $(UTSBASE)/sfmmu/Makefile.rules
44 include $(UTSBASE)/sparc/v9/Makefile.rules
45 include $(UTSBASE)/sparc/Makefile.rules
46 include $(UTSBASE)/sun/Makefile.rules
47 include $(UTSBASE)/sun/Makefile.rules
48 include $(PSMBASE)/promif/$(PROMIF)/common/Makefile.rules
49 include $(PSMBASE)/promif/$(PROMIF)/sun4v/Makefile.rules
50 include $(UTSBASE)/common/Makefile.rules
51 include $(UTSBASE)/common/Makefile.rules
```

```

*****
11700 Sun Nov 10 09:06:24 2013
new/usr/src/uts/README
*** NO COMMENTS ***
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #

22 #
23 # Copyright 2007 Sun Microsystems, Inc. All rights reserved.
24 # Use is subject to license terms.
25 #
26 # ident "%Z%M% %I% %E% SMI"

28 KERNEL MAKEFILE STRUCTURE
29 -----

31 The advent of dynamic loading of kernel modules has obsoleted the
32 4.x kernel configuration scheme which was centered around a derived
33 Makefile and a collection of derived header files generated by the
34 config(8) program. This file describes the structure of the replacement
35 "static" set of Makefiles.

37 Some additional secondary goals were associated with the generation
38 of these Makefiles. It should be noted that the ability to properly
39 deal with derived Makefiles is an explicit non-goal of the ongoing
40 NSE enhancements, so this project is a necessary consequence of that
41 decision.

43 All project goals are enumerated below:

45 1] To provide a set of static Makefiles to support kernel build
46 and installation.

48 2] To provide a set of static Makefiles which conform to the
49 "Makefiles Guidelines". (This document is currently available
50 on-line as "terminator:/usr/integration/doc/make.std")

52 3] To completely eliminate the config(8) program.

54 4] To provide a framework for linting the kernel (so that "lint free"
55 can be made an integration criterion, in addition to being general
56 good hygiene).

58 5] To eliminate the need for the small headers generated by config(8).
59 In the ddi/dki world this need is completely eliminated as drivers
60 will be expected to dynamically configure themselves. Interim support
61 for existing drivers will be provided.

```

```

63 6] To be able to "acquire" only the files needed to build a specific
64 module, if that is all that is needed.

66 7] To provide a framework suitable for the production of "implementation
67 architecture" independent modules.

69 8] To restructure the assembly language files to support the generation
70 of "lint-libraries" from them.

72 9] To provide support for the incidental Makefile targets many developers
73 are accustomed to (such as cscope and tags). These can be added to the
74 Makefiles asd required. (cscope is currently supported.)

77 GENERAL STRUCTURE
78 -----

80 The source code layout is not generally effected by the Makefiles. However,
81 the location of the generated files has changed dramatically.

83 "Implementation architecture" independent modules are produced in
84 individual directories (one per module) under the "instruction-set
85 architecture" directory (i.e.: sparc). Similarly, "implementation
86 architecture" dependent modules are produced in individual directories
87 under the "implementation architecture" directory (i.e.: sun4, sun4c).
88 It should be noted that currently (4/14/91) no implementation architecture
89 modules exist. This situation is expected to change shortly.

91 The driving Makefile for any module is located in the leaf directory
92 where the module (and associated objects) are built. After a 'make
93 clobber' operation, the Makefile is the only file remaining in that
94 directory. Common definitions and rules are contained in suffixed
95 Makefiles in non-leaf directories which are included in the leaf
96 Makefiles. Non-suffixed Makefiles in non-leaf directories generally
97 invoke lower level Makefiles to perform the actual tasks.

99 uts/Makefile
100 uts/sparc/Makefile
101 uts/sun4c/Makefile
102 uts/sun4c/svvs/Makefile
103 These Makefiles generally are cognizant of the components
104 made in subdirectories and invoke Makefiles in those sub-
105 directories to perform the actual build. Some targets (or
106 pseudo-targets) may be directly built at this level (such
107 as the cscope databases).

109 uts/Makefile.uts
110 Contains common definitions for all possible architectures.

112 uts/Makefile.targ
113 Contains common targets for all possible architectures.

115 uts/common/Makefile.files
116 uts/sun/Makefile.files
117 uts/sparc/Makefile.files
118 uts/sun4c/Makefile.files
119 uts/sun4/Makefile.files
120 These Makefiles are divided into two sections. The first
121 section can be viewed as the equivalent of the "files" (sparc
122 and sun4c) and "files.cmn" (common and sun) files. These
123 define the object lists which define each module. The second
124 section defines the appropriate header search paths and other
125 machine specific global build parameters.

127 uts/common/Makefile.rules

```

```

128 uts/sun/Makefile.rules
129 uts/sparc/Makefile.rules
130 uts/sun4c/Makefile.rules
131 uts/sun4/Makefile.rules
132     The files provide build rules (targets) which allow make to function
133     in a multiple directory environment. Each source tree below the
134     directory containing the Makefile has a build rule in the file.

136 uts/sun4c/Makefile.sun4c
137 uts/sun4/Makefile.sun4
138     These Makefile contains the definitions specific (defaults) to
139     the obvious "implementation architecture". These rules can be
140     overridden in specific leaf node Makefiles if necessary.

142 uts/sun4c/unix/Makefile
143     Main driving Makefile for building /unix.

145 uts/sun4c/MODULE/Makefile (for MODULE in arp, aoutexec, ...)
146     Main driving Makefile for building MODULE.kmod.

148 uts/sun4c/unix.static/Makefile
149     Main driving Makefile for building a static unix (for development
150     work only). This Makefile is known to NSE, but its targets are
151     not. This makefile may be copied to additional parallel directories
152     to build multiple configurations. This configuration is roughly
153     equivalent to the GENERIC kernel of SunOS 4.x.

155 uts/*/Makefile.?.shared
156     These denote Makefile contents which are shared between open and
157     closed builds.

155 The Makefiles are verbosely commented. It is desired that they should
156 stay this way.

159 USE
160 ---

162 Issuing the command 'make' in the uts directory will cause all supported,
163 modularized kernels and modules to be built.

165 Issuing the command 'make' in a uts/ARCHITECTURE directory (i.e.: uts/sparc)
166 will cause all supported, "implementation architecture" independent modules
167 for ARCHITECTURE to be built.

169 Issuing the command 'make' in a uts/MACHINE directory (i.e.: uts/sun4c)
170 will cause that kernel and all supported, "implementation architecture"
171 dependent modules for MACHINE to be built.

173 Issuing the command 'make' in the uts/MACHINE/unix directory will cause the
174 kernel for MACHINE to be built (and unix.o).

176 Issuing the command 'make' in a uts/MACHINE/MODULE or a uts/ARCHITECTURE/MODULE
177 directory will cause MODULE.kmod to be built.

180 LINT
181 ----

183 Linting is fairly similar to the builds, but it has an additional complication.
184 In order to get meaningful output from lint pass2, all the modules must be
185 linted together. This is accomplished by each module being responsible to
186 produce its own pass1 output (file.ln, one per .c/.s file). It is also
187 responsible for placing the a lint-library (llib-LMODULE) in the
188 uts/MACHINE/lint-libs directory. The final full lint is accomplished by the
189 Makefile in the uts/MACHINE directory by linting all the lint-libraries

```

```

190 against each other.

192 Note that there is no equivalent to Locore.c in the current source base.
193 The C prototypes are in the .s files. As example:

195     #if defined(lint)
196     int
197     blort(int, int)
198     { return 0 }
199     #else /* lint */

201     ENTRY(blort)
202     ld      [%i0],....
203     ....
204     SET_SIZE(blort)
_____ unchanged_portion_omitted

```

new/usr/src/uts/common/io/1394/inc.flg

1

```
*****
2272 Sun Nov 10 09:06:25 2013
new/usr/src/uts/common/io/1394/inc.flg
*** NO COMMENTS ***
*****
1 #!/bin/sh
2 #
3 # CDDL HEADER START
4 #
5 # The contents of this file are subject to the terms of the
6 # Common Development and Distribution License, Version 1.0 only
7 # (the "License"). You may not use this file except in compliance
8 # with the License.
9 #
10 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
11 # or http://www.opensolaris.org/os/licensing.
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18 # fields enclosed by brackets "[]" replaced with your own identifying
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20 #
21 # CDDL HEADER END
22 #
23 #
24 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #

28 #ident "%Z%M% %I% %E% SMI"

30 # This file brings down all that is needed to build just
31 # 1394 drivers.
32 #

34 find_files "s.*h" \
35     usr/src/uts/common/sys/1394

37 find_files "s.*h" \
38     usr/src/uts/common/sys

40 find_files "s.*h" \
41     usr/src/uts/sparc/sys

43 find_files "s.*h" \
44     usr/src/uts/sparc/v7/sys

46 find_files "s.*h" \
47     usr/src/uts/sparc/v9/sys

49 find_files "s.*h" \
50     usr/src/uts/sun/sys

52 find_files "s.*h" \
53     usr/src/uts/sun4u/sys

55 find_files "s.*h" \
56     usr/src/uts/common/vm

58 find_files "s.*" \
59     usr/src/uts/sparc/hcil394 \
60     usr/src/uts/sparc/s1394
```

new/usr/src/uts/common/io/1394/inc.flg

2

```
62 echo_file usr/src/Makefile.master
63 echo_file usr/src/Makefile.master.64
64 echo_file usr/src/req.flg
65 echo_file usr/src/Makefile.psm
66 echo_file usr/src/Makefile.psm.targ
67 echo_file usr/src/uts/Makefile
68 echo_file usr/src/uts/Makefile.targ
69 echo_file usr/src/uts/Makefile.uts
70 echo_file usr/src/uts/sun/Makefile.files
71 echo_file usr/src/uts/sun/Makefile.rules
72 echo_file usr/src/uts/common/Makefile.files
73 echo_file usr/src/uts/common/Makefile.rules
74 echo_file usr/src/uts/common/sys/Makefile
75 echo_file usr/src/uts/sparc/Makefile
76 echo_file usr/src/uts/sparc/Makefile.files
77 echo_file usr/src/uts/sparc/Makefile.rules
78 echo_file usr/src/uts/sparc/Makefile.sparc
79 echo_file usr/src/uts/sparc/Makefile.sparc.shared
79 echo_file usr/src/uts/sparc/Makefile.targ
81 echo_file usr/src/uts/sparc/Makefile.targ.shared
80 echo_file usr/src/uts/sparc/ml/sparc.il
81 echo_file usr/src/uts/sparc/req.flg
```



new/usr/src/uts/common/io/ib/inc.flg

1

```
*****
4158 Sun Nov 10 09:06:25 2013
new/usr/src/uts/common/io/ib/inc.flg
*** NO COMMENTS ***
*****
1 #!/bin/sh
2 #
3 # CDDL HEADER START
4 #
5 # The contents of this file are subject to the terms of the
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7 # You may not use this file except in compliance with the License.
8 #
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16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 #
24 # Copyright (c) 2003, 2010, Oracle and/or its affiliates. All rights reserved.
25 #
26 #
27 #
28 # This file brings down all that is needed to build the
29 # core Infiniband code.
30 #
31 #
32 # header files
33 find_files "s*.h" \
34     usr/src/uts/common/sys/ib //
35     usr/src/uts/common/sys //
36     usr/src/uts/sparc/sys //
37     usr/src/uts/sparc/v7/sys //
38     usr/src/uts/sparc/v9/sys //
39     usr/src/uts/sun/sys //
40     usr/src/uts/intel/sys //
41     usr/src/uts/intel/ia32/sys //
42     usr/src/uts/common/rpc //
43     usr/src/uts/common/netinet //
44     usr/src/uts/common/inet //
45     usr/src/uts/common/net //
46     usr/src/uts/common/vm //
47     usr/src/uts/common/gssapi //
48 #
49 # cfgadm plugin directory
50 find_files "s*" \
51     usr/src/lib/cfgadm_plugins/ib //
52 #
53 # warlock
54 find_files "s*" \
55     usr/src/uts/common/io/warlock //
56 #
57 # to compile the drivers/modules
58 find_files "s*" \
59     usr/src/uts/sparc/ib //
60     usr/src/uts/sparc/ibcm //
61     usr/src/uts/sparc/ibdm //
```

new/usr/src/uts/common/io/ib/inc.flg

2

```
62     usr/src/uts/sparc/ibmf //
63     usr/src/uts/sparc/ibt1 //
64     usr/src/uts/sparc/ibp //
65     usr/src/uts/sparc/rpcib //
66     usr/src/uts/intel/ib //
67     usr/src/uts/intel/ibcm //
68     usr/src/uts/intel/ibdm //
69     usr/src/uts/intel/ibmf //
70     usr/src/uts/intel/ibt1 //
71     usr/src/uts/intel/ibp //
72     usr/src/uts/intel/rpcib //
73 #
74 # packaging files
75 find_files "s*" usr/src/pkg/license_files //
76 echo_file usr/src/pkg/manifests/SUNWib.mf //
77 echo_file usr/src/pkg/manifests/SUNWtavor.mf //
78 #
79 # extra files needed
80 find_files "s*" \
81     usr/src/uts/common/os //
82     usr/src/uts/common/rpc //
83     usr/src/uts/intel/asm //
84     usr/src/uts/intel/amd64 //
85 #
86 # lvm
87 find_files "s*.x" \
88     usr/src/uts/common/sys/lvm //
89 #
90 # makefiles
91 echo_file usr/src/Makefile.master //
92 echo_file usr/src/Makefile.master.64 //
93 echo_file usr/src/req.flg //
94 echo_file usr/src/Makefile.psm //
95 echo_file usr/src/Makefile.psm.targ //
96 echo_file usr/src/uts/Makefile //
97 echo_file usr/src/uts/Makefile.targ //
98 echo_file usr/src/uts/Makefile.uts //
99 echo_file usr/src/uts/sun/Makefile.files //
100 echo_file usr/src/uts/sun/Makefile.rules //
101 echo_file usr/src/uts/common/Makefile.files //
102 echo_file usr/src/uts/common/Makefile.rules //
103 echo_file usr/src/uts/common/sys/Makefile //
104 echo_file usr/src/uts/common/sys/lvm/Makefile //
105 echo_file usr/src/uts/sparc/Makefile //
106 echo_file usr/src/uts/sparc/Makefile.files //
107 echo_file usr/src/uts/sparc/Makefile.rules //
108 echo_file usr/src/uts/sparc/Makefile.sparc //
109 echo_file usr/src/uts/sparc/Makefile.sparc.shared //
109 echo_file usr/src/uts/sparc/Makefile.targ //
111 echo_file usr/src/uts/sparc/Makefile.targ.shared //
110 echo_file usr/src/uts/sparc/ml/sparc.il //
111 echo_file usr/src/uts/sparc/req.flg //
112 echo_file usr/src/uts/intel/Makefile //
113 echo_file usr/src/uts/intel/Makefile.files //
114 echo_file usr/src/uts/intel/Makefile.rules //
115 echo_file usr/src/uts/intel/Makefile.intel //
118 echo_file usr/src/uts/intel/Makefile.intel.shared //
116 echo_file usr/src/uts/intel/Makefile.targ //
120 echo_file usr/src/uts/intel/Makefile.targ.shared //
117 echo_file usr/src/uts/intel/ia32/ml/ia32.il //
118 echo_file usr/src/uts/sun4/Makefile.files //
119 echo_file usr/src/uts/sun4/Makefile.rules //
120 echo_file usr/src/uts/sun4u/Makefile //
121 echo_file usr/src/uts/sun4u/Makefile.files //
122 echo_file usr/src/uts/sun4u/Makefile.rules //
123 echo_file usr/src/uts/sun4u/Makefile.sun4u //
```

```
128 echo_file usr/src/uts/sun4u/Makefile.sun4u.shared
124 echo_file usr/src/uts/sun4u/Makefile.targ
130 echo_file usr/src/uts/sun4u/Makefile.targ.shared
125 echo_file usr/src/uts/sun4u/Makefile.workarounds
126 echo_file usr/src/uts/sfmmu/Makefile.files
127 echo_file usr/src/uts/sfmmu/Makefile.rules
128 echo_file usr/src/uts/sparc/v9/Makefile.files
129 echo_file usr/src/uts/sparc/v9/Makefile.rules
130 echo_file usr/src/cmd/Makefile
131 echo_file usr/src/cmd/Makefile.cmd
132 echo_file usr/src/cmd/Makefile.targ
133 echo_file usr/src/pkg/Makefile
134 echo_file exception_lists/packaging
135 find_files "s.*" usr/src/common/mapfiles
```

new/usr/src/uts/intel/kmech\_krb5/req.flg

1

\*\*\*\*\*

1258 Sun Nov 10 09:06:25 2013

new/usr/src/uts/intel/kmech\_krb5/req.flg

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

```
1 #!/bin/sh
2 #
3 # CDDL HEADER START
4 #
5 # The contents of this file are subject to the terms of the
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19 # information: Portions Copyright [yyyy] [name of copyright owner]
20 #
21 # CDDL HEADER END
22 #
23 #
24 # ident "%Z%M% %I%      %E% SMI"
25 #
26 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
27 # Use is subject to license terms.
28 #
29 echo_file usr/src/uts/intel/Makefile
30 echo_file usr/src/uts/intel/Makefile.files
31 echo_file usr/src/uts/intel/Makefile.intel
32 echo_file usr/src/uts/intel/Makefile.intel.shared
32 echo_file usr/src/uts/intel/Makefile.rules
33 echo_file usr/src/uts/intel/Makefile.targ
35 echo_file usr/src/uts/intel/Makefile.targ.shared
34 echo_file usr/src/uts/common/Makefile.files
35 echo_file usr/src/uts/common/Makefile.rules
```

new/usr/src/uts/sparc/kmech\_krb5/req.flg

1

\*\*\*\*\*

1258 Sun Nov 10 09:06:25 2013

new/usr/src/uts/sparc/kmech\_krb5/req.flg

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

```
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19 # information: Portions Copyright [yyyy] [name of copyright owner]
20 #
21 # CDDL HEADER END
22 #
23 #
24 # ident "%Z%M% %I%      %E% SMI"
25 #
26 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
27 # Use is subject to license terms.
28 #
29 echo_file usr/src/uts/sparc/Makefile
30 echo_file usr/src/uts/sparc/Makefile.files
31 echo_file usr/src/uts/sparc/Makefile.sparc
32 echo_file usr/src/uts/sparc/Makefile.sparc.shared
32 echo_file usr/src/uts/sparc/Makefile.rules
33 echo_file usr/src/uts/sparc/Makefile.targ
35 echo_file usr/src/uts/sparc/Makefile.targ.shared
34 echo_file usr/src/uts/common/Makefile.files
35 echo_file usr/src/uts/common/Makefile.rules
```

new/usr/src/uts/sparc/req.flg

1

```
*****
1468 Sun Nov 10 09:06:25 2013
new/usr/src/uts/sparc/req.flg
*** NO COMMENTS ***
*****
1 #! /bin/sh
2 #
3 # CDDL HEADER START
4 #
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20 #
21 # CDDL HEADER END
22 #
23 #
24 # Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 #ident "%Z%M% %I% %E% SMI"
28 #

30 echo_file usr/src/uts/sparc/Makefile
31 echo_file usr/src/uts/sparc/Makefile.files
32 echo_file usr/src/uts/sparc/Makefile.rules
33 echo_file usr/src/uts/sparc/Makefile.sparc
34 echo_file usr/src/uts/sparc/Makefile.sparc.shared
34 echo_file usr/src/uts/sparc/Makefile.targ
36 echo_file usr/src/uts/sparc/Makefile.targ.shared

36 echo_file usr/src/uts/sun/Makefile.files
37 echo_file usr/src/uts/sun/Makefile.rules

39 echo_file usr/src/uts/common/Makefile.files
40 echo_file usr/src/uts/common/Makefile.rules

42 # uts/Makefile.targ (version 1.17) says "All C objects depend on
43 # inline files".
44 echo_file usr/src/uts/sparc/ml/sparc.il
```

new/usr/src/uts/sun/io/scsi/inc.flg

1

\*\*\*\*\*

2795 Sun Nov 10 09:06:25 2013

new/usr/src/uts/sun/io/scsi/inc.flg

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

```
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2 #
3 # CDDL HEADER START
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17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 #
24 # Copyright 2010 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 # This file brings down all that is needed to build just
28 # SCSI Subsystem.
29 #

31 find_files "s.*" \
32     usr/src/uts/common/io/warlock \
33     usr/src/uts/common/io/scsi \
34     usr/src/uts/common/sys \
35     usr/src/uts/sparc/dada \
36     usr/src/uts/sparc/fas \
37     usr/src/uts/sparc/scsi \
38     usr/src/uts/sparc/sd \
39     usr/src/uts/sparc/ses \
40     usr/src/uts/sparc/ssd \
41     usr/src/uts/sparc/st \
42     usr/src/uts/sparc/warlock \
43     usr/src/uts/sun/io/dada \
44     usr/src/uts/sun/sys/dada \
45     usr/src/uts/sun/sys/scsi

47 find_files "s.*.h" \
48     usr/src/uts/sparc/sys \
49     usr/src/uts/sparc/v7 \
50     usr/src/uts/sparc/v9

52 echo_file usr/src/uts/sparc/os/driver_classes
53 echo_file usr/src/uts/sparc/os/driver_aliases
54 echo_file usr/src/uts/sparc/os/name_to_major

56 echo_file usr/src/Makefile.master
57 echo_file usr/src/Makefile.master.64
58 echo_file usr/src/req.flg
59 echo_file usr/src/Makefile.psm
60 echo_file usr/src/Makefile.psm.targ
61 echo_file usr/src/uts/Makefile
```

new/usr/src/uts/sun/io/scsi/inc.flg

2

```
62 echo_file usr/src/uts/Makefile.targ
63 echo_file usr/src/uts/Makefile.uts
64 echo_file usr/src/uts/common/Makefile.files
65 echo_file usr/src/uts/common/Makefile.rules
66 echo_file usr/src/uts/common/vm/as.h
67 echo_file usr/src/uts/common/vm/faultcode.h
68 echo_file usr/src/uts/common/vm/hat.h
69 echo_file usr/src/uts/common/vm/page.h
70 echo_file usr/src/uts/common/vm/seg.h
71 echo_file usr/src/uts/common/vm/seg_enum.h
72 echo_file usr/src/uts/req.flg
73 echo_file usr/src/uts/sparc/Makefile
74 echo_file usr/src/uts/sparc/Makefile.files
75 echo_file usr/src/uts/sparc/Makefile.rules
76 echo_file usr/src/uts/sparc/Makefile.sparc
77 echo_file usr/src/uts/sparc/Makefile.sparc.shared
78 echo_file usr/src/uts/sparc/Makefile.targ
79 echo_file usr/src/uts/sparc/Makefile.targ.shared
80 echo_file usr/src/uts/sparc/ml/sparc.il
81 echo_file usr/src/uts/sparc/req.flg
82 echo_file usr/src/uts/sun/Makefile.files
83 echo_file usr/src/uts/sun/Makefile.rules
84 echo_file usr/src/uts/sun/sys/obpdefs.h
85 echo_file usr/src/uts/sun/sys/promif.h
86 echo_file usr/src/uts/sun/sys/socalreg.h
87 echo_file usr/src/uts/sun/sys/socalio.h
```