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*****
32380 Sat Sep 29 12:10:11 2012
new/usr/src/cmd/getconf/getconf.c
452 /usr/((|xpg4|/xpg6|)/bin/getconf need to support NPROCESSORS_*
*****
unchanged portion omitted
89 /*
90 * Some entries in this structure have both leading _ and non leading _
91 * versions for compatibility with various versions of the specifications.
92 * It is not expected that both forms will be required for new entries.
93 */

95 /* POSIX.2-1992 table 2-17 */
96 _POSIX2_BC_BASE_MAX, "POSIX2_BC_BASE_MAX", SELFCNF, NOFLAGS,
97 _POSIX2_BC_SCALE_MAX, "POSIX2_BC_SCALE_MAX", SELFCNF, NOFLAGS,
98 _POSIX2_BC_DIM_MAX, "POSIX2_BC_DIM_MAX", SELFCNF, NOFLAGS,
99 _POSIX2_BC_DIM_MAX, "POSIX2_BC_DIM_MAX", SELFCNF, NOFLAGS,
100 _POSIX2_BC_SCALE_MAX, "POSIX2_BC_SCALE_MAX", SELFCNF, NOFLAGS,
101 _POSIX2_BC_SCALE_MAX, "POSIX2_BC_SCALE_MAX", SELFCNF, NOFLAGS,
102 _POSIX2_BC_STRING_MAX, "POSIX2_BC_STRING_MAX", SELFCNF, NOFLAGS,
103 _POSIX2_BC_STRING_MAX, "POSIX2_BC_STRING_MAX", SELFCNF, NOFLAGS,
104 _POSIX2_COLL_WEIGHTS_MAX, "POSIX2_COLL_WEIGHTS_MAX", SELFCNF, NOFLAGS,
105 _POSIX2_COLL_WEIGHTS_MAX, "POSIX2_COLL_WEIGHTS_MAX", SELFCNF, NOFLAGS,
106 _POSIX2_EXPR_NEST_MAX, "POSIX2_EXPR_NEST_MAX", SELFCNF, NOFLAGS,
107 _POSIX2_EXPR_NEST_MAX, "POSIX2_EXPR_NEST_MAX", SELFCNF, NOFLAGS,
108 _POSIX2_LINE_MAX, "POSIX2_LINE_MAX", SELFCNF, NOFLAGS,
109 _POSIX2_LINE_MAX, "POSIX2_LINE_MAX", SELFCNF, NOFLAGS,
110 _POSIX2_RE_DUP_MAX, "POSIX2_RE_DUP_MAX", SELFCNF, NOFLAGS,
111 _POSIX2_RE_DUP_MAX, "POSIX2_RE_DUP_MAX", SELFCNF, NOFLAGS,
112 /* See limits.h section below for _POSIX2_RE_DUP_MAX */

114 /* UNIX 98 */
115 _POSIX_AIO_LISTIO_MAX, "_POSIX_AIO_LISTIO_MAX", SELFCNF, NOFLAGS,
116 _POSIX_AIO_MAX, "_POSIX_AIO_MAX", SELFCNF, NOFLAGS,
117 _POSIX_DELAYTIMER_MAX, "POSIX_DELAYTIMER_MAX", SELFCNF, NOFLAGS,
118 _POSIX_LOGIN_NAME_MAX, "_POSIX_LOGIN_NAME_MAX", SELFCNF, NOFLAGS,
119 _POSIX_MQ_OPEN_MAX, "POSIX_MQ_OPEN_MAX", SELFCNF, NOFLAGS,
120 _POSIX_MQ_Prio_MAX, "POSIX_MQ_Prio_MAX", SELFCNF, NOFLAGS,
121 _POSIX_RTSIG_MAX, "POSIX_RTSIG_MAX", SELFCNF, NOFLAGS,
122 _POSIX_SEM_NSEMS_MAX, "POSIX_SEM_NSEMS_MAX", SELFCNF, NOFLAGS,
123 _POSIX_SEM_VALUE_MAX, "POSIX_SEM_VALUE_MAX", SELFCNF, NOFLAGS,
124 _POSIX_SIGQUEUE_MAX, "POSIX_SIGQUEUE_MAX", SELFCNF, NOFLAGS,
125 _POSIX_TTY_NAME_MAX, "_POSIX_TTY_NAME_MAX", SELFCNF, NOFLAGS,

127 /* UNIX 03 */
128 _POSIX_HOST_NAME_MAX, "_POSIX_HOST_NAME_MAX", SELFCNF, NOFLAGS,
129 _POSIX_RE_DUP_MAX, "POSIX_RE_DUP_MAX", SELFCNF, NOFLAGS,
130 _POSIX_CLOCKRES_MIN, "POSIX_CLOCKRES_MIN", SELFCNF, NOFLAGS,
131 _POSIX_SYMLINK_MAX, "POSIX_SYMLINK_MAX", SELFCNF, NOFLAGS,
132 _POSIX_SYMLINK_MAX, "POSIX_SYMLINK_MAX", SELFCNF, NOFLAGS,
133 CHARCLASS_NAME_MAX, "_POSIX2_CHARCLASS_NAME_MAX", SELFCNF, NOFLAGS,

135 /* POSIX.2-1992 table 2-17 */
136 _SC_2_VERSION, "POSIX2_VERSION", SYSCNF, NOFLAGS,
137 _SC_2_VERSION, "_POSIX2_VERSION", SYSCNF, NOFLAGS,

139 /* POSIX.2-1992 table 2-18 */
140 _SC_BC_BASE_MAX, "BC_BASE_MAX", SYSCNF, NOFLAGS,
141 _SC_BC_DIM_MAX, "BC_DIM_MAX", SYSCNF, NOFLAGS,
142 _SC_BC_SCALE_MAX, "BC_SCALE_MAX", SYSCNF, NOFLAGS,
143 _SC_BC_STRING_MAX, "BC_STRING_MAX", SYSCNF, NOFLAGS,
144 _SC_COLL_WEIGHTS_MAX, "COLL_WEIGHTS_MAX", SYSCNF, NOFLAGS,
145 _SC_EXPR_NEST_MAX, "EXPR_NEST_MAX", SYSCNF, NOFLAGS,
146 _SC_LINE_MAX, "LINE_MAX", SYSCNF, NOFLAGS,
147 _SC_RE_DUP_MAX, "RE_DUP_MAX", SYSCNF, NOFLAGS,

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149 /* POSIX.2-1992 table 2-19 */
150 _SC_2_C_BIND, "POSIX2_C_BIND", SYSCNF, NOFLAGS,
151 _SC_2_C_BIND, "_POSIX2_C_BIND", SYSCNF, NOFLAGS,
152 _SC_2_C_DEV, "POSIX2_C_DEV", SYSCNF, NOFLAGS,
153 _SC_2_C_DEV, "_POSIX2_C_DEV", SYSCNF, NOFLAGS,
154 _SC_2_CHAR_TERM, "POSIX2_CHAR_TERM", SYSCNF, NOFLAGS,
155 _SC_2_CHAR_TERM, "_POSIX2_CHAR_TERM", SYSCNF, NOFLAGS,
156 _SC_2_FORT_DEV, "POSIX2_FORT_DEV", SYSCNF, NOFLAGS,
157 _SC_2_FORT_DEV, "_POSIX2_FORT_DEV", SYSCNF, NOFLAGS,
158 _SC_2_FORT_RUN, "POSIX2_FORT_RUN", SYSCNF, NOFLAGS,
159 _SC_2_FORT_RUN, "_POSIX2_FORT_RUN", SYSCNF, NOFLAGS,
160 _SC_2_LOCALEDEF, "POSIX2_LOCALEDEF", SYSCNF, NOFLAGS,
161 _SC_2_LOCALEDEF, "_POSIX2_LOCALEDEF", SYSCNF, NOFLAGS,
162 _SC_2_SW_DEV, "POSIX2_SW_DEV", SYSCNF, NOFLAGS,
163 _SC_2_SW_DEV, "_POSIX2_SW_DEV", SYSCNF, NOFLAGS,
164 _SC_2_UPE, "POSIX2_UPE", SYSCNF, NOFLAGS,
165 _SC_2_UPE, "_POSIX2_UPE", SYSCNF, NOFLAGS,

167 /* POSIX.1-1990 table 2-3 */
168 _POSIX_ARG_MAX, "POSIX_ARG_MAX", SELFCNF, NOFLAGS,
169 _POSIX_CHILD_MAX, "POSIX_CHILD_MAX", SELFCNF, NOFLAGS,
170 _POSIX_LINK_MAX, "POSIX_LINK_MAX", SELFCNF, NOFLAGS,
171 _POSIX_MAX_CANON, "POSIX_MAX_CANON", SELFCNF, NOFLAGS,
172 _POSIX_MAX_INPUT, "POSIX_MAX_INPUT", SELFCNF, NOFLAGS,
173 _POSIX_NAME_MAX, "POSIX_NAME_MAX", SELFCNF, NOFLAGS,
174 _POSIX_NGROUPS_MAX, "POSIX_NGROUPS_MAX", SELFCNF, NOFLAGS,
175 _POSIX_OPEN_MAX, "POSIX_OPEN_MAX", SELFCNF, NOFLAGS,
176 _POSIX_PATH_MAX, "POSIX_PATH_MAX", SELFCNF, NOFLAGS,
177 _POSIX_PIPE_BUF, "POSIX_PIPE_BUF", SELFCNF, NOFLAGS,
178 _POSIX_SSIZE_MAX, "POSIX_SSIZE_MAX", SELFCNF, NOFLAGS,
179 _POSIX_STREAM_MAX, "POSIX_STREAM_MAX", SELFCNF, NOFLAGS,
180 _POSIX_TIMER_MAX, "POSIX_TIMER_MAX", SELFCNF, NOFLAGS,
181 _POSIX_THREAD_DESTRUCTOR_ITERATIONS,
182 "POSIX_THREAD_DESTRUCTOR_ITERATIONS", SELFCNF, NOFLAGS,
183 _POSIX_THREAD_KEYS_MAX, "POSIX_THREAD_KEYS_MAX", SELFCNF, NOFLAGS,
184 "POSIX_THREAD_KEYS_MAX", SELFCNF, NOFLAGS,
185 _POSIX_THREAD_THREADS_MAX,
186 "POSIX_THREAD_THREADS_MAX", SELFCNF, NOFLAGS,
187 _POSIX_TZNAME_MAX, "_POSIX_TZNAME_MAX", SELFCNF, NOFLAGS,

189 /* POSIX.1-1990 table 4-2 */
190 _SC_ARG_MAX, "ARG_MAX", SYSCNF, NOFLAGS,
191 _SC_CHILD_MAX, "CHILD_MAX", SYSCNF, NOFLAGS,
192 _SC_CLK_TCK, "CLK_TCK", SYSCNF, NOFLAGS,
193 _SC_JOB_CONTROL, "POSIX_JOB_CONTROL", SYSCNF, NOFLAGS,
194 _SC_NGROUPS_MAX, "NGROUPS_MAX", SYSCNF, NOFLAGS,
195 _SC_OPEN_MAX, "OPEN_MAX", SYSCNF, NOFLAGS,
196 _SC_SAVED_IDS, "POSIX_SAVED_IDS", SYSCNF, NOFLAGS,
197 _SC_STREAM_MAX, "STREAM_MAX", SYSCNF, NOFLAGS,
198 _SC_TZNAME_MAX, "TZNAME_MAX", SYSCNF, NOFLAGS,
199 _SC_VERSION, "_POSIX_VERSION", SYSCNF, NOFLAGS,

201 /* pathconf() variables */

203 /* POSIX.1-1990 table 5-2 */

205 _PC_LINK_MAX, "LINK_MAX", PATHCONF, NOFLAGS,
206 _PC_MAX_CANON, "MAX_CANON", PATHCONF, NOFLAGS,
207 _PC_MAX_INPUT, "MAX_INPUT", PATHCONF, NOFLAGS,
208 _PC_NAME_MAX, "NAME_MAX", PATHCONF, NOFLAGS,
209 _PC_PATH_MAX, "PATH_MAX", PATHCONF, NOFLAGS,
210 _PC_PIPE_BUF, "PIPE_BUF", PATHCONF, NOFLAGS,
211 _PC_CHOWN_RESTRICTED, "POSIX_CHOWN_RESTRICTED", PATHCONF, NOFLAGS,
212 _PC_NO_TRUNC, "POSIX_NO_TRUNC", PATHCONF, NOFLAGS,
213 _PC_VDISABLE, "_POSIX_VDISABLE", PATHCONF, NOFLAGS,

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215      /* UNIX 98 additions */
217      _PC_ASYNC_IO,          "_POSIX_ASYNC_IO",      PATHCONF, NOFLAGS,
218      _PC_PRIO_IO,          "_POSIX_PRIO_IO",      PATHCONF, NOFLAGS,
219      _PC_SYNC_IO,          "_POSIX_SYNC_IO",      PATHCONF, NOFLAGS,
221      /* Large File Summit name (UNIX 98) */
223      _PC_FILESIZEBITS,     "FILESIZEBITS",        PATHCONF, NOFLAGS,
225      /* UNIX 03 Additions */
227      /* Advisory Information (ADV) */
228      _PC_ALLOC_SIZE_MIN,   "POSIX_ALLOC_SIZE_MIN", PATHCONF, NOFLAGS,
229      _PC_REC_INCR_XFER_SIZE, "POSIX_REC_INCR_XFER_SIZE", PATHCONF, NOFLAGS,
230      _PC_REC_MAX_XFER_SIZE, "POSIX_REC_MAX_XFER_SIZE", PATHCONF, NOFLAGS,
231      _PC_REC_MIN_XFER_SIZE, "POSIX_REC_MIN_XFER_SIZE", PATHCONF, NOFLAGS,
232      _PC_REC_XFER_ALIGN,   "POSIX_REC_XFER_ALIGN", PATHCONF, NOFLAGS,
234      _PC_2_SYMLINKS,       "POSIX2_SYMLINKS",     PATHCONF, NOFLAGS,
235      _PC_SYMLINK_MAX,      "SYMLINK_MAX",         PATHCONF, NOFLAGS,
237      /* UNIX 08 additions */
239      _PC_TIMESTAMP_RESOLUTION, "_POSIX_TIMESTAMP_RESOLUTION",
240      PATHCONF, NOFLAGS,
242      /* confstr() variables */
244      /* POSIX.2-1992 description of getconf utility */
245      _CS_PATH,             "PATH",                 CONFSTR, NOFLAGS,
247      /* POSIX.2-1992 table B-18 */
248      _CS_PATH,             "CS_PATH",              CONFSTR, NOFLAGS,
249      _CS_PATH,             "_CS_PATH",             CONFSTR, NOFLAGS,
251      /* command names for large file configuration information */
252      /* large file compilation environment configuration */
254      _CS_LFS_CFLAGS,        "LFS_CFLAGS",           CONFSTR, NOFLAGS,
255      _CS_LFS_LDFLAGS,       "LFS_LDFLAGS",          CONFSTR, NOFLAGS,
256      _CS_LFS_LIBS,          "LFS_LIBS",             CONFSTR, NOFLAGS,
257      _CS_LFS_LINTFLAGS,     "LFS_LINTFLAGS",        CONFSTR, NOFLAGS,
259      /* transitional large file interface configuration */
261      _CS_LFS64_CFLAGS,      "LFS64_CFLAGS",         CONFSTR, NOFLAGS,
262      _CS_LFS64_LDFLAGS,     "LFS64_LDFLAGS",        CONFSTR, NOFLAGS,
263      _CS_LFS64_LIBS,        "LFS64_LIBS",           CONFSTR, NOFLAGS,
264      _CS_LFS64_LINTFLAGS,   "LFS64_LINTFLAGS",      CONFSTR, NOFLAGS,
266      /*
267      * UNIX 98:
268      * confstr additions, these support
269      * programming specifications/environments.
270      *
271      * Unfortunately there is some uncertainty with
272      * the standard at this point about the constant
273      * name, thus we need to recognize BOTH with and
274      * without the initial underscore.
275      */
276      _CS_XBS5_ILP32_OFF32_CFLAGS, "XBS5_ILP32_OFF32_CFLAGS",
277      CONFSTR, NOFLAGS,
278      _CS_XBS5_ILP32_OFF32_CFLAGS, "_XBS5_ILP32_OFF32_CFLAGS",
279      CONFSTR, NOFLAGS,

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281      _CS_XBS5_ILP32_OFF32_LDFLAGS, "XBS5_ILP32_OFF32_LDFLAGS",
282      CONFSTR, NOFLAGS,
283      _CS_XBS5_ILP32_OFF32_LDFLAGS, "_XBS5_ILP32_OFF32_LDFLAGS",
284      CONFSTR, NOFLAGS,
286      _CS_XBS5_ILP32_OFF32_LIBS, "XBS5_ILP32_OFF32_LIBS",
287      CONFSTR, NOFLAGS,
288      _CS_XBS5_ILP32_OFF32_LIBS, "_XBS5_ILP32_OFF32_LIBS",
289      CONFSTR, NOFLAGS,
291      _CS_XBS5_ILP32_OFF32_LINTFLAGS, "XBS5_ILP32_OFF32_LINTFLAGS",
292      CONFSTR, NOFLAGS,
293      _CS_XBS5_ILP32_OFF32_LINTFLAGS, "_XBS5_ILP32_OFF32_LINTFLAGS",
294      CONFSTR, NOFLAGS,
296      _CS_XBS5_ILP32_OFFBIG_CFLAGS, "XBS5_ILP32_OFFBIG_CFLAGS",
297      CONFSTR, NOFLAGS,
298      _CS_XBS5_ILP32_OFFBIG_CFLAGS, "_XBS5_ILP32_OFFBIG_CFLAGS",
299      CONFSTR, NOFLAGS,
301      _CS_XBS5_ILP32_OFFBIG_LDFLAGS, "XBS5_ILP32_OFFBIG_LDFLAGS",
302      CONFSTR, NOFLAGS,
303      _CS_XBS5_ILP32_OFFBIG_LDFLAGS, "_XBS5_ILP32_OFFBIG_LDFLAGS",
304      CONFSTR, NOFLAGS,
306      _CS_XBS5_ILP32_OFFBIG_LIBS, "XBS5_ILP32_OFFBIG_LIBS",
307      CONFSTR, NOFLAGS,
308      _CS_XBS5_ILP32_OFFBIG_LIBS, "_XBS5_ILP32_OFFBIG_LIBS",
309      CONFSTR, NOFLAGS,
311      _CS_XBS5_ILP32_OFFBIG_LINTFLAGS, "XBS5_ILP32_OFFBIG_LINTFLAGS",
312      CONFSTR, NOFLAGS,
313      _CS_XBS5_ILP32_OFFBIG_LINTFLAGS, "_XBS5_ILP32_OFFBIG_LINTFLAGS",
314      CONFSTR, NOFLAGS,
316      _CS_XBS5_LP64_OFF64_CFLAGS, "XBS5_LP64_OFF64_CFLAGS",
317      CONFSTR, NOFLAGS,
318      _CS_XBS5_LP64_OFF64_CFLAGS, "_XBS5_LP64_OFF64_CFLAGS",
319      CONFSTR, NOFLAGS,
321      _CS_XBS5_LP64_OFF64_LDFLAGS, "XBS5_LP64_OFF64_LDFLAGS",
322      CONFSTR, NOFLAGS,
323      _CS_XBS5_LP64_OFF64_LDFLAGS, "_XBS5_LP64_OFF64_LDFLAGS",
324      CONFSTR, NOFLAGS,
326      _CS_XBS5_LP64_OFF64_LIBS, "XBS5_LP64_OFF64_LIBS",
327      CONFSTR, NOFLAGS,
328      _CS_XBS5_LP64_OFF64_LIBS, "_XBS5_LP64_OFF64_LIBS",
329      CONFSTR, NOFLAGS,
331      _CS_XBS5_LP64_OFF64_LINTFLAGS, "XBS5_LP64_OFF64_LINTFLAGS",
332      CONFSTR, NOFLAGS,
333      _CS_XBS5_LP64_OFF64_LINTFLAGS, "_XBS5_LP64_OFF64_LINTFLAGS",
334      CONFSTR, NOFLAGS,
336      _CS_XBS5_LPBIG_OFFBIG_CFLAGS, "XBS5_LPBIG_OFFBIG_CFLAGS",
337      CONFSTR, NOFLAGS,
338      _CS_XBS5_LPBIG_OFFBIG_CFLAGS, "_XBS5_LPBIG_OFFBIG_CFLAGS",
339      CONFSTR, NOFLAGS,
341      _CS_XBS5_LPBIG_OFFBIG_LDFLAGS, "XBS5_LPBIG_OFFBIG_LDFLAGS",
342      CONFSTR, NOFLAGS,
343      _CS_XBS5_LPBIG_OFFBIG_LDFLAGS, "_XBS5_LPBIG_OFFBIG_LDFLAGS",
344      CONFSTR, NOFLAGS,
346      _CS_XBS5_LPBIG_OFFBIG_LIBS, "XBS5_LPBIG_OFFBIG_LIBS",

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347         CONFSTR,          NOFLAGS,
348     _CS_XBS5_LPBIG_OFFBIG_LIBS,    "_XBS5_LPBIG_OFFBIG_LIBS",
349         CONFSTR,          NOFLAGS,

351     _CS_XBS5_LPBIG_OFFBIG_LINTFLAGS, "XBS5_LPBIG_OFFBIG_LINTFLAGS",
352         CONFSTR,          NOFLAGS,
353     _CS_XBS5_LPBIG_OFFBIG_LINTFLAGS, "_XBS5_LPBIG_OFFBIG_LINTFLAGS",
354         CONFSTR,          NOFLAGS,

356     /*
357     * UNIX 03 confstr() additions for compilation environments
358     */
359     _CS_POSIX_V6_ILP32_OFF32_CFLAGS, "POSIX_V6_ILP32_OFF32_CFLAGS",
360         CONFSTR,          NOFLAGS,
361     _CS_POSIX_V6_ILP32_OFF32_LDFLAGS, "POSIX_V6_ILP32_OFF32_LDFLAGS",
362         CONFSTR,          NOFLAGS,
363     _CS_POSIX_V6_ILP32_OFF32_LIBS,   "POSIX_V6_ILP32_OFF32_LIBS",
364         CONFSTR,          NOFLAGS,
365     _CS_POSIX_V6_ILP32_OFFBIG_CFLAGS, "POSIX_V6_ILP32_OFFBIG_CFLAGS",
366         CONFSTR,          NOFLAGS,
367     _CS_POSIX_V6_ILP32_OFFBIG_LDFLAGS, "POSIX_V6_ILP32_OFFBIG_LDFLAGS",
368         CONFSTR,          NOFLAGS,
369     _CS_POSIX_V6_ILP32_OFFBIG_LIBS,  "POSIX_V6_ILP32_OFFBIG_LIBS",
370         CONFSTR,          NOFLAGS,
371     _CS_POSIX_V6_LP64_OFF64_CFLAGS,  "POSIX_V6_LP64_OFF64_CFLAGS",
372         CONFSTR,          NOFLAGS,
373     _CS_POSIX_V6_LP64_OFF64_LDFLAGS, "POSIX_V6_LP64_OFF64_LDFLAGS",
374         CONFSTR,          NOFLAGS,
375     _CS_POSIX_V6_LP64_OFF64_LIBS,    "POSIX_V6_LP64_OFF64_LIBS",
376         CONFSTR,          NOFLAGS,
377     _CS_POSIX_V6_LPBIG_OFFBIG_CFLAGS, "POSIX_V6_LPBIG_OFFBIG_CFLAGS",
378         CONFSTR,          NOFLAGS,
379     _CS_POSIX_V6_LPBIG_OFFBIG_LDFLAGS, "POSIX_V6_LPBIG_OFFBIG_LDFLAGS",
380         CONFSTR,          NOFLAGS,
381     _CS_POSIX_V6_LPBIG_OFFBIG_LIBS,  "POSIX_V6_LPBIG_OFFBIG_LIBS",
382         CONFSTR,          NOFLAGS,
383     _CS_POSIX_V6_WIDTH_RESTRICTED_ENVS, "POSIX_V6_WIDTH_RESTRICTED_ENVS",
384         CONFSTR,          NOFLAGS,
385     /* End of UNIX 03 compilation environments */

387 #ifdef _SC_2_C_VERSION      /* POSIX.2 table B-4 */
388     _SC_2_C_VERSION,       "_POSIX2_C_VERSION",    SYSCONF,    NOFLAGS,
389 #else
390     _POSIX2_C_VERSION,     "_POSIX2_C_VERSION",    SELFCONF,  NOFLAGS,
391 #endif

393 /*
394  * XPG4 support BEGINS
395  */

397 #ifndef CHARCLASS_NAME_MAX
398 #define CHARCLASS_NAME_MAX    -1
399 #endif
400 #ifndef CHAR_BIT
401 #define CHAR_BIT              -1
402 #endif
403 #ifndef CHAR_MAX
404 #define CHAR_MAX              -1
405 #endif
406 #ifndef CHAR_MIN
407 #define CHAR_MIN              -1
408 #endif
409 #ifndef INT_MAX
410 #define INT_MAX               -1
411 #endif
412 #ifndef INT_MIN

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413 #define INT_MIN              -1
414 #endif
415 #ifndef LONG_BIT
416 #define LONG_BIT             -1
417 #endif
418 #ifndef LONG_MAX
419 #define LONG_MAX             -1
420 #endif
421 #ifndef LONG_MIN
422 #define LONG_MIN             -1
423 #endif
424 #ifndef MB_LEN_MAX
425 #define MB_LEN_MAX           -1
426 #endif
427 #ifndef NL_NMAX
428 #define NL_NMAX              -1
429 #endif
430 #ifndef NL_ARGMAX
431 #define NL_ARGMAX            -1
432 #endif
433 #ifndef NL_LANGMAX
434 #define NL_LANGMAX           -1
435 #endif
436 #ifndef NL_MSGMAX
437 #define NL_MSGMAX            -1
438 #endif
439 #ifndef NL_SETMAX
440 #define NL_SETMAX            -1
441 #endif
442 #ifndef NL_TEXTMAX
443 #define NL_TEXTMAX           -1
444 #endif
445 #ifndef NZERO
446 #define NZERO                 -1
447 #endif
448 #ifndef SCHAR_MAX
449 #define SCHAR_MAX            -1
450 #endif
451 #ifndef SCHAR_MIN
452 #define SCHAR_MIN            -1
453 #endif
454 #ifndef SHRT_MAX
455 #define SHRT_MAX              -1
456 #endif
457 #ifndef SHRT_MIN
458 #define SHRT_MIN             -1
459 #endif
460 #ifndef TMP_MAX
461 #define TMP_MAX               -1
462 #endif
463 #ifndef WORD_BIT
464 #define WORD_BIT              -1
465 #endif

468 #ifndef _XOPEN_XPG2
469 #define _XOPEN_XPG2           -1
470 #endif
471 #ifndef _XOPEN_XPG3
472 #define _XOPEN_XPG3           -1
473 #endif
474 #ifndef _XOPEN_XPG4
475 #define _XOPEN_XPG4           -1
476 #endif

478     /*

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479  * the following are values that we should find in <limits.h>
480  * so we use SELFCNF here.
481  *
482  */

484  /* POSIX.1-1990 */
485  CHARCLASS_NAME_MAX,    "CHARCLASS_NAME_MAX",    SELFCNF,    NOFLAGS,
486  SSIZE_MAX,             "SSIZE_MAX",             SELFCNF,    NOFLAGS,

488  /* POSIX.1-1988 */
489  CHAR_BIT,              "CHAR_BIT",              SELFCNF,    NOFLAGS,
490  CHAR_MAX,              "CHAR_MAX",              SELFCNF,    NOFLAGS,
491  CHAR_MIN,              "CHAR_MIN",              SELFCNF,    NOFLAGS,
492  INT_MAX,               "INT_MAX",               SELFCNF,    NOFLAGS,
493  INT_MIN,               "INT_MIN",               SELFCNF,    NOFLAGS,
494  LONG_BIT,              "LONG_BIT",              SELFCNF,    NOFLAGS,
495  LONG_MAX,              "LONG_MAX",              SELFCNF,    NOFLAGS,
496  LONG_MIN,              "LONG_MIN",              SELFCNF,    NOFLAGS,
497  MB_LEN_MAX,            "MB_LEN_MAX",            SELFCNF,    NOFLAGS,
498  NL_NMAX,               "NL_NMAX",               SELFCNF,    NOFLAGS,
499  NL_ARGMAX,             "NL_ARGMAX",             SELFCNF,    NOFLAGS,
500  NL_LANGMAX,           "NL_LANGMAX",           SELFCNF,    NOFLAGS,
501  NL_MSGMAX,            "NL_MSGMAX",            SELFCNF,    NOFLAGS,
502  NL_SETMAX,            "NL_SETMAX",            SELFCNF,    NOFLAGS,
503  NL_TEXTMAX,           "NL_TEXTMAX",           SELFCNF,    NOFLAGS,
504  NZERO,                 "NZERO",                 SELFCNF,    NOFLAGS,
505  SCHAR_MAX,            "SCHAR_MAX",            SELFCNF,    NOFLAGS,
506  SCHAR_MIN,            "SCHAR_MIN",            SELFCNF,    NOFLAGS,
507  SHRT_MAX,             "SHRT_MAX",             SELFCNF,    NOFLAGS,
508  SHRT_MIN,             "SHRT_MIN",             SELFCNF,    NOFLAGS,
509  TMP_MAX,              "TMP_MAX",              SELFCNF,    NOFLAGS,

511  /*
512  * for the unsigned maximums, we cannot rely on the value -1
513  * to indicate "undefined".
514  */
515  #ifndef UCHAR_MAX
516      0,                  "UCHAR_MAX",            SELFCNF,    UNDEFINED,
517  #else
518      (long)UCHAR_MAX,    "UCHAR_MAX",            SELFCNF,    UNSIGNED_VALUE,
519  #endif /* UCHAR_MAX */
520  #ifndef UINT_MAX
521      0,                  "UINT_MAX",             SELFCNF,    UNDEFINED,
522  #else
523      (long)UINT_MAX,     "UINT_MAX",             SELFCNF,    UNSIGNED_VALUE,
524  #endif /* UINT_MAX */
525  #ifndef ULONG_MAX
526      0,                  "ULONG_MAX",            SELFCNF,    UNDEFINED,
527  #else
528      (long)ULONG_MAX,    "ULONG_MAX",            SELFCNF,    UNSIGNED_VALUE,
529  #endif /* ULONG_MAX */
530  #ifndef USHRT_MAX
531      0,                  "USHRT_MAX",            SELFCNF,    UNDEFINED,
532  #else
533      (long)USHRT_MAX,    "USHRT_MAX",            SELFCNF,    UNSIGNED_VALUE,
534  #endif /* USHRT_MAX */
535  #ifndef SIZE_MAX
536      0,                  "SIZE_MAX",             SELFCNF,    UNDEFINED,
537  #else
538      (long)SIZE_MAX,     "SIZE_MAX",             SELFCNF,    UNSIGNED_VALUE,
539  #endif /* SIZE_MAX */

541  WORD_BIT,              "WORD_BIT",              SELFCNF,    NOFLAGS,

543  /* XPG4 Version 2 */
544  _XOPEN_IOV_MAX,        "_XOPEN_IOV_MAX",        SELFCNF,    NOFLAGS,

```

```

546  /* UNIX 03 */
547  _XOPEN_NAME_MAX,      "_XOPEN_NAME_MAX",      SELFCNF,    NOFLAGS,
548  _XOPEN_PATH_MAX,      "_XOPEN_PATH_MAX",      SELFCNF,    NOFLAGS,

550  /*
551  * The following are defined via sysconf(). These are considered
552  * an extension to sysconf().
553  * The -0 is needed if _XOPEN_XPG? is defined to be an empty string.
554  */
555  _XOPEN_XPG2-0,         "_XOPEN_XPG2",          SELFCNF,    NOFLAGS,
556  _XOPEN_XPG3-0,         "_XOPEN_XPG3",          SELFCNF,    NOFLAGS,
557  _XOPEN_XPG4-0,         "_XOPEN_XPG4",          SELFCNF,    NOFLAGS,

559  /*
560  * The following should be provided by sysconf() (e.g use SYSCONF),
561  * so we look for the appropriate _SC_* symbol in <unistd.h>.
562  * If it is not defined, then we use SELFCNF with the value of -1.
563  */
564  _SC_XOPEN_VERSION,     "_XOPEN_VERSION",       SYSCONF,    NOFLAGS,
565  _SC_XOPEN_XCU_VERSION, "_XOPEN_XCU_VERSION",   SYSCONF,    NOFLAGS,
566  _SC_XOPEN_CRYPT,       "_XOPEN_CRYPT",         SYSCONF,    NOFLAGS,
567  _SC_XOPEN_ENH_I18N,    "_XOPEN_ENH_I18N",     SYSCONF,    NOFLAGS,
568  _SC_XOPEN_SHM,         "_XOPEN_SHM",           SYSCONF,    NOFLAGS,

570  /*
571  * XPG4 support ends
572  */

574  /* XPG4, Version 2 support */

576  _SC_ATEXIT_MAX,        "ATEXIT_MAX",           SYSCONF,    NOFLAGS,
577  _SC_PAGESIZE,          "PAGE_SIZE",            SYSCONF,    NOFLAGS,
578  _SC_PAGE_SIZE,         "PAGE_SIZE",            SYSCONF,    NOFLAGS,
579  _SC_XOPEN_UNIX,        "_XOPEN_UNIX",          SYSCONF,    NOFLAGS,
580  _SC_IOV_MAX,           "IOV_MAX",              SYSCONF,    NOFLAGS,

582  /*
583  * UNIX 98 - XPG5 additions
584  */
585  _SC_XOPEN_LEGACY,      "_XOPEN_LEGACY",        SYSCONF,    NOFLAGS,
586  _SC_PASS_MAX,          "PASS_MAX",             SYSCONF,    NOFLAGS,
587  _SC_AIO_LISTIO_MAX,    "AIO_LISTIO_MAX",       SYSCONF,    NOFLAGS,
588  _SC_AIO_MAX,           "AIO_MAX",              SYSCONF,    NOFLAGS,
589  _SC_AIO_PRIO_DELTA_MAX, "AIO_PRIO_DELTA_MAX",   SYSCONF,    NOFLAGS,
590  _SC_DELAYTIMER_MAX,    "DELAYTIMER_MAX",       SYSCONF,    NOFLAGS,
591  _SC_MQ_OPEN_MAX,       "MQ_OPEN_MAX",          SYSCONF,    NOFLAGS,
592  _SC_MQ_PRIO_MAX,       "MQ_PRIO_MAX",          SYSCONF,    NOFLAGS,
593  _SC_RTSMAX,            "RTSMAX",               SYSCONF,    NOFLAGS,
594  _SC_SEM_NSEMS_MAX,     "SEM_NSEMS_MAX",        SYSCONF,    NOFLAGS,
595  _SC_SEM_VALUE_MAX,     "SEM_VALUE_MAX",        SYSCONF,    NOFLAGS,
596  _SC_SIGQUEUE_MAX,      "SIGQUEUE_MAX",         SYSCONF,    NOFLAGS,
597  _SC_TIMER_MAX,         "TIMER_MAX",            SYSCONF,    NOFLAGS,

599  _SC_ASYNCHRONOUS_IO,   "_POSIX_ASYNCHRONOUS_IO", SYSCONF,    NOFLAGS,
600  _SC_FSYNC,             "_POSIX_FSYNC",         SYSCONF,    NOFLAGS,
601  _SC_MAPPED_FILES,      "_POSIX_MAPPED_FILES",  SYSCONF,    NOFLAGS,
602  _SC_MEMLOCK,           "_POSIX_MEMLOCK",       SYSCONF,    NOFLAGS,
603  _SC_MEMLOCK_RANGE,     "_POSIX_MEMLOCK_RANGE", SYSCONF,    NOFLAGS,
604  _SC_MEMORY_PROTECTION, "_POSIX_MEMORY_PROTECTION", SYSCONF,    NOFLAGS,
605  _SC_MESSAGE_PASSING,   "_POSIX_MESSAGE_PASSING", SYSCONF,    NOFLAGS,
606  _SC_PRIORITIZED_IO,    "_POSIX_PRIORITIZED_IO", SYSCONF,    NOFLAGS,
607  _SC_PRIORITY_SCHEDULING, "_POSIX_PRIORITY_SCHEDULING", SYSCONF,    NOFLAGS,
608  _SC_REALTIME_SIGNALS,  "_POSIX_REALTIME_SIGNALS", SYSCONF,    NOFLAGS,
609  _SC_SEMAPHORES,        "_POSIX_SEMAPHORES",    SYSCONF,    NOFLAGS,

```

```

611     _SC_SHARED_MEMORY_OBJECTS, "_POSIX_SHARED_MEMORY_OBJECTS",
612         SYSCONF, NOFLAGS,

614     _SC_SYNCHRONIZED_IO,      "_POSIX_SYNCHRONIZED_IO", SYSCONF, NOFLAGS,
615     _SC_TIMERS,                "_POSIX_TIMERS",          SYSCONF, NOFLAGS,

617     _SC_LOGIN_NAME_MAX,       "LOGIN_NAME_MAX",      SYSCONF, NOFLAGS,

619     _SC_THREAD_DESTRUCTOR_ITERATIONS, "PTHREAD_DESTRUCTOR_ITERATIONS",
620         SYSCONF, NOFLAGS,

622     _SC_THREAD_KEYS_MAX,      "PTHREAD_KEYS_MAX",   SYSCONF, NOFLAGS,
623     _SC_THREAD_STACK_MIN,     "PTHREAD_STACK_MIN",  SYSCONF, NOFLAGS,
624     _SC_THREAD_THREADS_MAX,   "PTHREAD_THREADS_MAX", SYSCONF, NOFLAGS,

626     _SC_THREADS,              "_POSIX_THREADS",     SYSCONF, NOFLAGS,

628     _SC_THREAD_ATTR_STACKADDR, "POSIX_THREAD_ATTR_STACKADDR",
629         SYSCONF, NOFLAGS,
630     _SC_THREAD_ATTR_STACKADDR, "_POSIX_THREAD_ATTR_STACKADDR",
631         SYSCONF, NOFLAGS,

633     _SC_THREAD_ATTR_STACKSIZE, "POSIX_THREAD_ATTR_STACKSIZE",
634         SYSCONF, NOFLAGS,
635     _SC_THREAD_ATTR_STACKSIZE, "_POSIX_THREAD_ATTR_STACKSIZE",
636         SYSCONF, NOFLAGS,

638     _SC_THREAD_PRIORITY_SCHEDULING, "POSIX_THREAD_PRIORITY_SCHEDULING",
639         SYSCONF, NOFLAGS,
640     _SC_THREAD_PRIORITY_SCHEDULING, "_POSIX_THREAD_PRIORITY_SCHEDULING",
641         SYSCONF, NOFLAGS,

643     _SC_THREAD_PRIO_INHERIT, "POSIX_THREAD_PRIO_INHERIT",
644         SYSCONF, NOFLAGS,
645     _SC_THREAD_PRIO_INHERIT, "_POSIX_THREAD_PRIO_INHERIT",
646         SYSCONF, NOFLAGS,

648     _SC_THREAD_PRIO_PROTECT, "POSIX_THREAD_PRIO_PROTECT",
649         SYSCONF, NOFLAGS,
650     _SC_THREAD_PRIO_PROTECT, "_POSIX_THREAD_PRIO_PROTECT",
651         SYSCONF, NOFLAGS,

653     _SC_THREAD_PROCESS_SHARED, "POSIX_THREAD_PROCESS_SHARED",
654         SYSCONF, NOFLAGS,
655     _SC_THREAD_PROCESS_SHARED, "_POSIX_THREAD_PROCESS_SHARED",
656         SYSCONF, NOFLAGS,

658     _SC_THREAD_SAFE_FUNCTIONS, "POSIX_THREAD_SAFE_FUNCTIONS",
659         SYSCONF, NOFLAGS,
660     _SC_THREAD_SAFE_FUNCTIONS, "_POSIX_THREAD_SAFE_FUNCTIONS",
661         SYSCONF, NOFLAGS,

663     _SC_TTY_NAME_MAX,         "TTY_NAME_MAX",      SYSCONF, NOFLAGS,
664     _SC_XOPEN_REALTIME,      "_XOPEN_REALTIME",   SYSCONF, NOFLAGS,
665     _SC_XOPEN_REALTIME_THREADS, "_XOPEN_REALTIME_THREADS", SYSCONF, NOFLAGS,

667 /*
668  * Due to ambiguity in the standard we need
669  * to recognize both the underscored name
670  * and the non-underscored version in the
671  * following variables.
672  */
673     _SC_XBS5_ILP32_OFF32,     "XBS5_ILP32_OFF32",  SYSCONF, NOFLAGS,
674     _SC_XBS5_ILP32_OFF32,     "_XBS5_ILP32_OFF32", SYSCONF, NOFLAGS,

676     _SC_XBS5_ILP32_OFFBIG,    "XBS5_ILP32_OFFBIG", SYSCONF, NOFLAGS,

```

```

677     _SC_XBS5_ILP32_OFFBIG,    "_XBS5_ILP32_OFFBIG", SYSCONF, NOFLAGS,

679     _SC_XBS5_LP64_OFF64,     "XBS5_LP64_OFF64",   SYSCONF, NOFLAGS,
680     _SC_XBS5_LP64_OFF64,     "_XBS5_LP64_OFF64",   SYSCONF, NOFLAGS,

682     _SC_XBS5_LPBIG_OFFBIG,   "XBS5_LPBIG_OFFBIG", SYSCONF, NOFLAGS,
683     _SC_XBS5_LPBIG_OFFBIG,   "_XBS5_LPBIG_OFFBIG", SYSCONF, NOFLAGS,

685 /*
686  * UNIX 03 additions for sysconf() names, and names that are not in interfaces
687  */
688     _SC_REGEX,                "_POSIX_REGEX",      SYSCONF, NOFLAGS,
689     _SC_SHELL,                "_POSIX_SHELL",     SYSCONF, NOFLAGS,
690     _SC_HOST_NAME_MAX,        "HOST_NAME_MAX",    SYSCONF, NOFLAGS,
691     _SC_READER_WRITER_LOCKS,  "_POSIX_READER_WRITER_LOCKS", SYSCONF, NOFLAGS,
692     _SC_IPV6,                 "_POSIX_IPV6",      SYSCONF, NOFLAGS,
693     _SC_RAW_SOCKETS,         "POSIX_RAW_SOCKETS", SYSCONF, NOFLAGS,
694     _SC_XOPEN_STREAMS,       "XOPEN_STREAMS",    SYSCONF, NOFLAGS,
695     _SC_SYMLOOP_MAX,         "SYMLOOP_MAX",      SYSCONF, NOFLAGS,
696     _SC_2_PBS,               "POSIX2_PBS",       SYSCONF, NOFLAGS,
697     _SC_2_PBS_ACCOUNTING,    "POSIX2_PBS_ACCOUNTING", SYSCONF, NOFLAGS,
698     _SC_2_PBS_CHECKPOINT,    "POSIX2_PBS_CHECKPOINT", SYSCONF, NOFLAGS,
699     _SC_2_PBS_LOCATE,        "POSIX2_PBS_LOCATE", SYSCONF, NOFLAGS,
700     _SC_2_PBS_MESSAGE,       "POSIX2_PBS_MESSAGE", SYSCONF, NOFLAGS,
701     _SC_2_PBS_TRACK,         "POSIX2_PBS_TRACK",  SYSCONF, NOFLAGS,

703     _SC_ADVISORY_INFO,        "_POSIX_ADVISORY_INFO", SYSCONF, NOFLAGS,
704     _SC_BARRIERS,            "POSIX_BARRIERS",   SYSCONF, NOFLAGS,
705     _SC_CLOCK_SELECTION,     "POSIX_CLOCK_SELECTION", SYSCONF, NOFLAGS,
706     _SC_CPUTIME,             "POSIX_CPUTIME",    SYSCONF, NOFLAGS,
707     _SC_MONOTONIC_CLOCK,     "POSIX_MONOTONIC_CLOCK", SYSCONF, NOFLAGS,
708     _SC_SPAWN,               "POSIX_SPAWN",     SYSCONF, NOFLAGS,
709     _SC_SPIN_LOCKS,          "POSIX_SPIN_LOCKS", SYSCONF, NOFLAGS,
710     _SC_SPORADIC_SERVER,     "POSIX_SPORADIC_SERVER", SYSCONF, NOFLAGS,
711     _SC_SS_REPL_MAX,         "POSIX_SS_REPL_MAX", SYSCONF, NOFLAGS,
712     _SC_THREAD_CPUTIME,      "POSIX_THREAD_CPUTIME", SYSCONF, NOFLAGS,
713     _SC_THREAD_SPARADIC_SERVER, "POSIX_THREAD_SPARADIC_SERVER", SYSCONF, NOFLAGS,
714         NOFLAGS,
715     _SC_TIMEOUTS,            "POSIX_TIMEOUTS",   SYSCONF, NOFLAGS,
716     _SC_TRACE,               "POSIX_TRACE",      SYSCONF, NOFLAGS,
717     _SC_TRACE_EVENT_FILTER,  "POSIX_TRACE_EVENT_FILTER", SYSCONF, NOFLAGS,
718     _SC_TRACE_EVENT_NAME_MAX, "POSIX_TRACE_EVENT_NAME_MAX", SYSCONF, NOFLAGS,
719         NOFLAGS,
720     _SC_TRACE_INHERIT,       "POSIX_TRACE_INHERIT", SYSCONF, NOFLAGS,
721     _SC_TRACE_LOG,           "POSIX_TRACE_LOG",  SYSCONF, NOFLAGS,
722     _SC_TRACE_NAME_MAX,     "POSIX_TRACE_NAME_MAX", SYSCONF, NOFLAGS,
723     _SC_TRACE_SYS_MAX,       "POSIX_TRACE_SYS_MAX", SYSCONF, NOFLAGS,
724     _SC_TRACE_USER_EVENT_MAX, "POSIX_TRACE_USER_EVENT_MAX", SYSCONF, NOFLAGS,
725         NOFLAGS,
726     _SC_TYPED_MEMORY_OBJECTS, "POSIX_TYPED_MEMORY_OBJECTS", SYSCONF, NOFLAGS,
727         NOFLAGS,

729 /*
730  * Due to an ambiguity in the specification, we need to recognize both
731  * the underscored POSIX name and the non-underscored name. In addition,
732  * we need to permit the use of the _V6_* environment names specified
733  * in unistd.h.
734  */
735     _SC_V6_ILP32_OFF32,      "_V6_ILP32_OFF32",   SYSCONF, NOFLAGS,
736     _SC_V6_ILP32_OFF32,     "_POSIX_V6_ILP32_OFF32", SYSCONF, NOFLAGS,
737     _SC_V6_ILP32_OFF32,     "POSIX_V6_ILP32_OFF32", SYSCONF, NOFLAGS,

739     _SC_V6_ILP32_OFFBIG,    "_V6_ILP32_OFFBIG",  SYSCONF, NOFLAGS,
740     _SC_V6_ILP32_OFFBIG,    "_POSIX_V6_ILP32_OFFBIG", SYSCONF, NOFLAGS,
741     _SC_V6_ILP32_OFFBIG,    "POSIX_V6_ILP32_OFFBIG", SYSCONF, NOFLAGS,

```

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743     _SC_V6_LP64_OFF64,    "_V6_LP64_OFF64",      SYSCONF,    NOFLAGS,
744     _SC_V6_LP64_OFF64,    "_POSIX_V6_LP64_OFF64", SYSCONF,    NOFLAGS,
745     _SC_V6_LP64_OFF64,    "POSIX_V6_LP64_OFF64", SYSCONF,    NOFLAGS,

747     _SC_V6_LPBIG_OFFBIG,  "_V6_LPBIG_OFFBIG",    SYSCONF,    NOFLAGS,
748     _SC_V6_LPBIG_OFFBIG,  "_POSIX_V6_LPBIG_OFFBIG", SYSCONF,    NOFLAGS,
749     _SC_V6_LPBIG_OFFBIG,  "POSIX_V6_LPBIG_OFFBIG", SYSCONF,    NOFLAGS,
750 /*
751  * System V Interface Definition
752  */
753     _SC_NPROCESSORS_CONF,  "NPROCESSORS_CONF",    SYSCONF,    NOFLAGS,
754     _SC_NPROCESSORS_MAX,   "NPROCESSORS_MAX",     SYSCONF,    NOFLAGS,
755     _SC_NPROCESSORS_ONLNLN, "NPROCESSORS_ONLNLN",  SYSCONF,    NOFLAGS,
756 #endif /* ! codereview */
757     0,                      NULL,    0,      0          /* end of table */
758 };

761 /*
762  * Print usage message.
763  */
764 static int
765 usage()
766 {
768     (void) fputs(gettext(
769         "usage:\tgetconf [-v specification] system_var\n"
770         "\tgetconf [-v specification] path_var pathname\n"
771         "\tgetconf -a\n"), stderr);
772     return (2);
773 }

776 static int
777 namecmp(const void *a, const void *b)
778 {
779     return (strcoll(((const struct sctab *)a)->name,
780         ((const struct sctab *)b)->name));
781 }

784 static int
785 getconf(struct sctab *scp, int argc, char *name, char *file)
786 {
787     register size_t len;
788     register char *buffer;
789     long value;

791     switch (scp->type) {
792     case SELFCONF:
793         if (argc > 2)
794             return (usage());
795         if (scp->flag & UNDEFINED ||
796             (!(scp->flag & UNSIGNED_VALUE) && scp->value == -1)) {
797             /* DO NOT TRANSLATE */
798             (void) printf("undefined\n");
799         } else
800             if (scp->flag & UNSIGNED_VALUE)
801                 (void) printf("%lu\n", scp->value);
802             else
803                 (void) printf("%ld\n", scp->value);
804         break;

806     case SYSCONF:
807         if (argc > 2)
808             return (usage());

```

```

809         errno = 0;
810         if (scp->flag & UNDEFINED ||
811             (value = sysconf((int)scp->value)) == -1) {
812             if (errno == EINVAL) {
813                 (void) fprintf(stderr,
814                     gettext(INVAL_ARG), name);
815                 return (1);
816             } else {
817                 /* DO NOT TRANSLATE */
818                 (void) printf("undefined\n");
819                 return (0);
820             }
821         } else
822             (void) printf("%ld\n", value);
823         break;

825     case CONFSTR:
826         if (argc > 2)
827             return (usage());
828         errno = 0;
829         len = confstr((int)scp->value, NULL, (size_t)0);
830         if (len == 0)
831             if (errno == EINVAL) {
832                 (void) fprintf(stderr, gettext(INVAL_ARG),
833                     name);
834                 return (1);
835             } else {
836                 /* DO NOT TRANSLATE */
837                 (void) printf("undefined\n");
838                 return (0);
839             }
840         /*
841          * allocate space to store result of constr() into
842          */
843         if ((buffer = malloc(len)) == NULL) {
844             (void) fprintf(stderr,
845                 gettext("insufficient memory available"));
846             return (1);
847         }

849         assert(confstr((int)scp->value, buffer, len) != 0);

851         (void) printf("%s\n", buffer);
852         free(buffer);
853         break;

855     case PATHCONF:
856         if (argc != 3)
857             return (usage());
858         errno = 0;
859         if ((value = pathconf(file, (int)scp->value)) == -1) {
860             if (errno == EINVAL || errno == 0) {
861                 /* Does not support the association */
862                 /* DO NOT TRANSLATE */
863                 (void) printf("undefined\n");
864                 return (0);
865             } else {
866                 /* Probably problems with the pathname itself */
867                 if (aflag) {
868                     (void) printf("%s\n", file);
869                 } else {
870                     (void) printf("%s", file);
871                 }
872                 return (1);
873             }
874         }

```

```

875         (void) printf("%ld\n", value);
876         break;
877     }
878     return (0);
879 }

881 int
882 main(int argc, char **argv)
883 {
884     register struct sctab *scp;
885     int c;
886     int exstat = 0;

888     (void) setlocale(LC_ALL, "");
889 #if !defined(TEXT_DOMAIN) /* Should be defined by cc -D */
890 #define TEXT_DOMAIN "SYS_TEST"
891 #endif
892     (void) textdomain(TEXT_DOMAIN);

894     while ((c = getopt(argc, argv, "av:")) != -1)
895     switch (c) {
896     case 'a':
897         aflag = 1;
898         break;
899     case 'v':
900         /*
901          * Unix98 adds the -v option to allow
902          * programming 'specifications' to be
903          * indicated, for present purposes
904          * the specification isn't really
905          * doing anything of value, so for
906          * the moment getopt just processes the
907          * option value and argv[1] is adjusted.
908          *
909          * At some later date we might want to
910          * do specification processing at this
911          * point.
912          */
913         break;
914     case '?':
915         return (usage());
916     }
917     argc -= optind-1;
918     argv += optind-1;

920     if ((aflag && argc >= 2) || (!aflag && argc < 2))
921         return (usage());
922     if (aflag) {

924 #define TabStop      8
925 #define RightColumn  32
926 #define DefPathName  "."

928     /*
929     * sort the table by the "name" field
930     * so we print it in sorted order
931     */
932     qsort(&sctab[0], (sizeof (sctab)/sizeof (struct sctab))-1,
933         sizeof (struct sctab), namecmp);

935     /*
936     * print all the known symbols and their values
937     */
938     for (scp = &sctab[0]; scp->name != NULL; ++scp) {
939         int stat;

```

```

941         /*
942         * create 2 columns:
943         * variable name in the left column,
944         * value in the right column.
945         * The right column starts at a tab stop.
946         */
947         (void) printf("%s:\t", scp->name);

949         c = strlen(scp->name) + 1;
950         c = (c+TabStop) / TabStop, c *= TabStop;
951         for (; c < RightColumn; c += TabStop)
952             (void) putchar('\t');

954         /*
955         * for pathconf() related variables that require
956         * a pathname, use "."
957         */
958         stat = getconf(scp, scp->type == PATHCONF ? 3 : 2,
959             scp->name, DefPathName);

961         exstat |= stat;

963         /*
964         * if stat != 0, then an error message was already
965         * printed in getconf(),
966         * so don't need to print one here
967         */
968     } else {

971         /*
972         * find the name of the specified variable (argv[1])
973         * and print its value.
974         */
975         for (scp = &sctab[0]; scp->name != NULL; ++scp)
976             if (strcmp(argv[1], scp->name) == 0) {
977                 exstat = getconf(scp, argc, argv[1], argv[2]);
978                 break;
979             }

981         /*
982         * if at last entry in table, then the user specified
983         * variable is invalid
984         */
985         if (scp->name == NULL) {
986             errno = EINVAL;
987             (void) fprintf(stderr, gettext(INVAL_ARG), argv[1]);
988             return (1);
989         }

990     }
991     return (exstat);
992 }

```