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*****
32380 Fri Jan 11 06:35:41 2013
new/usr/src/cmd/getconf/getconf.c
452 /usr/@(/xpg4/xpg6/)bin/getconf need to support NPROCESSORS_*
Reviewed by: Garrett D'Amore <garrett@damore.org>
*****
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 */
94
95 /* POSIX.2-1992 table 2-17 */
96 _POSIX2_BC_BASE_MAX, "POSIX2_BC_BASE_MAX", SELFCONF, NOFLAGS,
97 _POSIX2_BC_BASE_MAX, "_POSIX2_BC_BASE_MAX", SELFCONF, NOFLAGS,
98 _POSIX2_BC_DIM_MAX, "POSIX2_BC_DIM_MAX", SELFCONF, NOFLAGS,
99 _POSIX2_BC_DIM_MAX, "_POSIX2_BC_DIM_MAX", SELFCONF, NOFLAGS,
100 _POSIX2_BC_SCALE_MAX, "POSIX2_BC_SCALE_MAX", SELFCONF, NOFLAGS,
101 _POSIX2_BC_SCALE_MAX, "_POSIX2_BC_SCALE_MAX", SELFCONF, NOFLAGS,
102 _POSIX2_BC_STRING_MAX, "POSIX2_BC_STRING_MAX", SELFCONF, NOFLAGS,
103 _POSIX2_BC_STRING_MAX, "_POSIX2_BC_STRING_MAX", SELFCONF, NOFLAGS,
104 _POSIX2_COLL_WEIGHTS_MAX, "POSIX2_COLL_WEIGHTS_MAX", SELFCONF, NOFLAGS,
105 _POSIX2_COLL_WEIGHTS_MAX, "_POSIX2_COLL_WEIGHTS_MAX", SELFCONF, NOFLAGS,
106 _POSIX2_EXPR_NEST_MAX, "POSIX2_EXPR_NEST_MAX", SELFCONF, NOFLAGS,
107 _POSIX2_EXPR_NEST_MAX, "_POSIX2_EXPR_NEST_MAX", SELFCONF, NOFLAGS,
108 _POSIX2_LINE_MAX, "POSIX2_LINE_MAX", SELFCONF, NOFLAGS,
109 _POSIX2_LINE_MAX, "_POSIX2_LINE_MAX", SELFCONF, NOFLAGS,
110 _POSIX2_RE_DUP_MAX, "POSIX2_RE_DUP_MAX", SELFCONF, NOFLAGS,
111 _POSIX2_RE_DUP_MAX, "_POSIX2_RE_DUP_MAX", SELFCONF, NOFLAGS,
112 /* See limits.h section below for _POSIX_RE_DUP_MAX */
113
114 /* UNIX 98 */
115 _POSIX_AIO_LISTIO_MAX, "_POSIX_AIO_LISTIO_MAX", SELFCONF, NOFLAGS,
116 _POSIX_AIO_MAX, "_POSIX_AIO_MAX", SELFCONF, NOFLAGS,
117 _POSIX_DELAYTIMER_MAX, "_POSIX_DELAYTIMER_MAX", SELFCONF, NOFLAGS,
118 _POSIX_LOGIN_NAME_MAX, "_POSIX_LOGIN_NAME_MAX", SELFCONF, NOFLAGS,
119 _POSIX_MQ_OPEN_MAX, "_POSIX_MQ_OPEN_MAX", SELFCONF, NOFLAGS,
120 _POSIX_MQ_PRIO_MAX, "_POSIX_MQ_PRIO_MAX", SELFCONF, NOFLAGS,
121 _POSIX_RTSIG_MAX, "_POSIX_RTSIG_MAX", SELFCONF, NOFLAGS,
122 _POSIX_SEM_NSEMS_MAX, "_POSIX_SEM_NSEMS_MAX", SELFCONF, NOFLAGS,
123 _POSIX_SEM_VALUE_MAX, "_POSIX_SEM_VALUE_MAX", SELFCONF, NOFLAGS,
124 _POSIX_SIGQUEUE_MAX, "_POSIX_SIGQUEUE_MAX", SELFCONF, NOFLAGS,
125 _POSIX_TTY_NAME_MAX, "_POSIX_TTY_NAME_MAX", SELFCONF, NOFLAGS,
126
127 /* UNIX 03 */
128 _POSIX_HOST_NAME_MAX, "_POSIX_HOST_NAME_MAX", SELFCONF, NOFLAGS,
129 _POSIX_RE_DUP_MAX, "_POSIX_RE_DUP_MAX", SELFCONF, NOFLAGS,
130 _POSIX_CLOCKRES_MIN, "_POSIX_CLOCKRES_MIN", SELFCONF, NOFLAGS,
131 _POSIX_SYMLINK_MAX, "_POSIX_SYMLINK_MAX", SELFCONF, NOFLAGS,
132 _POSIX_SYMLOOP_MAX, "_POSIX_SYMLOOP_MAX", SELFCONF, NOFLAGS,
133 CHARCLASS_NAME_MAX, "_POSIX2_CHARCLASS_NAME_MAX", SELFCONF, NOFLAGS,
134
135 /* POSIX.2-1992 table 2-17 */
136 _SC_2_VERSION, "POSIX2_VERSION", SYSCONF, NOFLAGS,
137 _SC_2_VERSION, "_POSIX2_VERSION", SYSCONF, NOFLAGS,
138
139 /* POSIX.2-1992 table 2-18 */
140 _SC_BC_BASE_MAX, "BC_BASE_MAX", SYSCONF, NOFLAGS,
141 _SC_BC_DIM_MAX, "BC_DIM_MAX", SYSCONF, NOFLAGS,
142 _SC_BC_SCALE_MAX, "BC_SCALE_MAX", SYSCONF, NOFLAGS,
143 _SC_BC_STRING_MAX, "BC_STRING_MAX", SYSCONF, NOFLAGS,
144 _SC_COLL_WEIGHTS_MAX, "COLL_WEIGHTS_MAX", SYSCONF, NOFLAGS,
145 _SC_EXPR_NEST_MAX, "EXPR_NEST_MAX", SYSCONF, NOFLAGS,
146 _SC_LINE_MAX, "LINE_MAX", SYSCONF, NOFLAGS,
147 _SC_RE_DUP_MAX, "RE_DUP_MAX", SYSCONF, NOFLAGS,
```

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149 /* POSIX.2-1992 table 2-19 */
150 _SC_2_C_BIND, "POSIX2_C_BIND", SYSCONF, NOFLAGS,
151 _SC_2_C_BIND, "_POSIX2_C_BIND", SYSCONF, NOFLAGS,
152 _SC_2_C_DEV, "POSIX2_C_DEV", SYSCONF, NOFLAGS,
153 _SC_2_C_DEV, "_POSIX2_C_DEV", SYSCONF, NOFLAGS,
154 _SC_2_CHAR_TERM, "POSIX2_CHAR_TERM", SYSCONF, NOFLAGS,
155 _SC_2_CHAR_TERM, "_POSIX2_CHAR_TERM", SYSCONF, NOFLAGS,
156 _SC_2_FORT_DEV, "POSIX2_FORT_DEV", SYSCONF, NOFLAGS,
157 _SC_2_FORT_DEV, "_POSIX2_FORT_DEV", SYSCONF, NOFLAGS,
158 _SC_2_FORT_RUN, "POSIX2_FORT_RUN", SYSCONF, NOFLAGS,
159 _SC_2_FORT_RUN, "_POSIX2_FORT_RUN", SYSCONF, NOFLAGS,
160 _SC_2_LOCALEDEF, "POSIX2_LOCALEDEF", SYSCONF, NOFLAGS,
161 _SC_2_LOCALEDEF, "_POSIX2_LOCALEDEF", SYSCONF, NOFLAGS,
162 _SC_2_SW_DEV, "POSIX2_SW_DEV", SYSCONF, NOFLAGS,
163 _SC_2_SW_DEV, "_POSIX2_SW_DEV", SYSCONF, NOFLAGS,
164 _SC_2_UPE, "POSIX2_UPE", SYSCONF, NOFLAGS,
165 _SC_2_UPE, "_POSIX2_UPE", SYSCONF, NOFLAGS,
166
167 /* POSIX.1-1990 table 2-3 */
168 _POSIX_ARG_MAX, "_POSIX_ARG_MAX", SELFCONF, NOFLAGS,
169 _POSIX_CHILD_MAX, "_POSIX_CHILD_MAX", SELFCONF, NOFLAGS,
170 _POSIX_LINK_MAX, "_POSIX_LINK_MAX", SELFCONF, NOFLAGS,
171 _POSIX_MAX_CANON, "_POSIX_MAX_CANON", SELFCONF, NOFLAGS,
172 _POSIX_MAX_INPUT, "_POSIX_MAX_INPUT", SELFCONF, NOFLAGS,
173 _POSIX_NAME_MAX, "_POSIX_NAME_MAX", SELFCONF, NOFLAGS,
174 _POSIX_NGROUPS_MAX, "_POSIX_NGROUPS_MAX", SELFCONF, NOFLAGS,
175 _POSIX_OPEN_MAX, "_POSIX_OPEN_MAX", SELFCONF, NOFLAGS,
176 _POSIX_PATH_MAX, "_POSIX_PATH_MAX", SELFCONF, NOFLAGS,
177 _POSIX_PIPE_BUF, "_POSIX_PIPE_BUF", SELFCONF, NOFLAGS,
178 _POSIX_SSIZE_MAX, "_POSIX_SSIZE_MAX", SELFCONF, NOFLAGS,
179 _POSIX_STREAM_MAX, "_POSIX_STREAM_MAX", SELFCONF, NOFLAGS,
180 _POSIX_TIMER_MAX, "_POSIX_TIMER_MAX", SELFCONF, NOFLAGS,
181 _POSIX_THREAD_DESTRUCTOR_ITERATIONS, "_POSIX_THREAD_DESTRUCTOR_ITERATIONS", SELFCONF, NOFLAGS,
182 _POSIX_THREAD_KEYS_MAX, "_POSIX_THREAD_KEYS_MAX", SELFCONF, NOFLAGS,
183 _POSIX_THREAD_THREADS_MAX, "_POSIX_THREAD_THREADS_MAX", SELFCONF, NOFLAGS,
184 _POSIX_TZNAME_MAX, "_POSIX_TZNAME_MAX", SELFCONF, NOFLAGS,
185
186 /* POSIX.1-1990 table 4-2 */
187 _SC_ARG_MAX, "ARG_MAX", SYSCONF, NOFLAGS,
188 _SC_CHILD_MAX, "CHILD_MAX", SYSCONF, NOFLAGS,
189 _SC_CLK_TCK, "CLK_TCK", SYSCONF, NOFLAGS,
190 _SC_JOB_CONTROL, "_POSIX_JOB_CONTROL", SYSCONF, NOFLAGS,
191 _SC_NGROUPS_MAX, "NGROUPS_MAX", SYSCONF, NOFLAGS,
192 _SC_OPEN_MAX, "OPEN_MAX", SYSCONF, NOFLAGS,
193 _SC_SAVED_IDS, "_POSIX_SAVED_IDS", SYSCONF, NOFLAGS,
194 _SC_STREAM_MAX, "STREAM_MAX", SYSCONF, NOFLAGS,
195 _SC_TZNAME_MAX, "TZNAME_MAX", SYSCONF, NOFLAGS,
196 _SC_VERSION, "_POSIX_VERSION", SYSCONF, NOFLAGS,
197
198 /* pathconf() variables */
199
200 /* pathconf() variables */
201
202 /* POSIX.1-1990 table 5-2 */
203
204
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,

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346     _CS_XBS5_LPBIG_OFFBIG_LIBS,      "XBS5_LPBIG_OFFBIG_LIBS",
347     CONFSTR,           NOFLAGS,
348     _CS_XBS5_LPBIG_OFFBIG_LIBS,      "_XBS5_LPBIG_OFFBIG_LIBS",
349     CONFSTR,           NOFLAGS,
350
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,
355
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
386     /* 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 */
396
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

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```

412 #ifndef INT_MIN
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

466 #ifndef _XOPEN_XPG2
467 #define _XOPEN_XPG2 -1
468 #endif
469 #ifndef _XOPEN_XPG3
470 #define _XOPEN_XPG3 -1
471 #endif
472 #ifndef _XOPEN_XPG4
473 #define _XOPEN_XPG4 -1
474 #endif
475 #ifndef _XOPEN_XPG5
476 #define _XOPEN_XPG5 -1

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```

478     /*
479      * the following are values that we should find in <limits.h>
480      * so we use SELFCONF here.
481      */
482
483
484     /* POSIX.1-1990 */
485     CHARCLASS_NAME_MAX, "CHARCLASS_NAME_MAX", SELFCONF, NOFLAGS,
486     SSIZE_MAX, "SSIZE_MAX", SELFCONF, NOFLAGS,
487
488     /* POSIX.1-1988 */
489     CHAR_BIT, "CHAR_BIT", SELFCONF, NOFLAGS,
490     CHAR_MAX, "CHAR_MAX", SELFCONF, NOFLAGS,
491     CHAR_MIN, "CHAR_MIN", SELFCONF, NOFLAGS,
492     INT_MAX, "INT_MAX", SELFCONF, NOFLAGS,
493     INT_MIN, "INT_MIN", SELFCONF, NOFLAGS,
494     LONG_BIT, "LONG_BIT", SELFCONF, NOFLAGS,
495     LONG_MAX, "LONG_MAX", SELFCONF, NOFLAGS,
496     LONG_MIN, "LONG_MIN", SELFCONF, NOFLAGS,
497     MB_LEN_MAX, "MB_LEN_MAX", SELFCONF, NOFLAGS,
498     NL_NMAX, "NL_NMAX", SELFCONF, NOFLAGS,
499     NL_ARGMAX, "NL_ARGMAX", SELFCONF, NOFLAGS,
500     NL_LANGMAX, "NL_LANGMAX", SELFCONF, NOFLAGS,
501     NL_MSGMAX, "NL_MSGMAX", SELFCONF, NOFLAGS,
502     NL_SETMAX, "NL_SETMAX", SELFCONF, NOFLAGS,
503     NL_TEXTMAX, "NL_TEXTMAX", SELFCONF, NOFLAGS,
504     NZERO, "NZERO", SELFCONF, NOFLAGS,
505     SCHAR_MAX, "SCHAR_MAX", SELFCONF, NOFLAGS,
506     SCHAR_MIN, "SCHAR_MIN", SELFCONF, NOFLAGS,
507     SHRT_MAX, "SHRT_MAX", SELFCONF, NOFLAGS,
508     SHRT_MIN, "SHRT_MIN", SELFCONF, NOFLAGS,
509     TMP_MAX, "TMP_MAX", SELFCONF, NOFLAGS,
510
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", SELFCONF, UNDEFINED,
517 #else
518     (long)UCHAR_MAX, "UCHAR_MAX", SELFCONF, UNSIGNED_VALUE,
519 #endif /* UCHAR_MAX */
520 #ifndef UINT_MAX
521     0, "UINT_MAX", SELFCONF, UNDEFINED,
522 #else
523     (long)UINT_MAX, "UINT_MAX", SELFCONF, UNSIGNED_VALUE,
524 #endif /* UINT_MAX */
525 #ifndef ULONG_MAX
526     0, "ULONG_MAX", SELFCONF, UNDEFINED,
527 #else
528     (long)ULONG_MAX, "ULONG_MAX", SELFCONF, UNSIGNED_VALUE,
529 #endif /* ULONG_MAX */
530 #ifndef USHRT_MAX
531     0, "USHRT_MAX", SELFCONF, UNDEFINED,
532 #else
533     (long)USHRT_MAX, "USHRT_MAX", SELFCONF, UNSIGNED_VALUE,
534 #endif /* USHRT_MAX */
535 #ifndef SIZE_MAX
536     0, "SIZE_MAX", SELFCONF, UNDEFINED,
537 #else
538     (long)SIZE_MAX, "SIZE_MAX", SELFCONF, UNSIGNED_VALUE,
539 #endif /* SIZE_MAX */
540
541     WORD_BIT, "WORD_BIT", SELFCONF, NOFLAGS,
542
543     /* XPG4 Version 2 */

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544     _XOPEN_IOV_MAX, "_XOPEN_IOV_MAX", SELFCONF, NOFLAGS,
545     /* UNIX 03 */
546     _XOPEN_NAME_MAX, "_XOPEN_NAME_MAX", SELFCONF, NOFLAGS,
547     _XOPEN_PATH_MAX, "_XOPEN_PATH_MAX", SELFCONF, NOFLAGS,
548
549     /*
550      * The following are defined via sysconf(). These are considered
551      * an extension to sysconf().
552      * The -0 is needed if _XOPEN_XPG? is defined to be an empty string.
553     */
554     _XOPEN_XPG2_0, "_XOPEN_XPG2", SELFCONF, NOFLAGS,
555     _XOPEN_XPG3_0, "_XOPEN_XPG3", SELFCONF, NOFLAGS,
556     _XOPEN_XPG4_0, "_XOPEN_XPG4", SELFCONF, NOFLAGS,
557
558     /*
559      * The following should be provided by sysconf() (e.g. use SYSCONF),
560      * so we look for the appropriate _SC_* symbol in <unistd.h>.
561      * If it is not defined, then we use SELFCONF with the value of -1.
562     */
563     _SC_XOPEN_VERSION, "_XOPEN_VERSION", SYSCONF, NOFLAGS,
564     _SC_XOPEN_XCU_VERSION, "_XOPEN_XCU_VERSION", SYSCONF, NOFLAGS,
565     _SC_XOPEN_CRYPT, "_XOPEN_CRYPT", SYSCONF, NOFLAGS,
566     _SC_XOPEN_ENH_I18N, "_XOPEN_ENH_I18N", SYSCONF, NOFLAGS,
567     _SC_XOPEN_SHM, "_XOPEN_SHM", SYSCONF, NOFLAGS,
568
569     /*
570      * XPG4 support ends
571     */
572
573     /* XPG4, Version 2 support */
574
575     _SC_ATEXIT_MAX, "ATEXIT_MAX", SYSCONF, NOFLAGS,
576     _SC_PAGESIZE, "PAGESIZE", SYSCONF, NOFLAGS,
577     _SC_PAGE_SIZE, "PAGE_SIZE", SYSCONF, NOFLAGS,
578     _SC_XOPEN_UNIX, "_XOPEN_UNIX", SYSCONF, NOFLAGS,
579     _SC_IOV_MAX, "IOV_MAX", SYSCONF, NOFLAGS,
580
581     /*
582      * UNIX 98 - XPG5 additions
583     */
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_RTSIG_MAX, "RTSIG_MAX", 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,
598
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,

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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,

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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_LPBIK_OFFBIG,     "XBS5_LPBIK_OFFBIG",        SYSCONF,      NOFLAGS,
683     _SC_XBS5_LPBIK_OFFBIG,     "_XBS5_LPBIK_OFFBIG",       SYSCONF,      NOFLAGS,
685     /*
686     * UNIX 03 additions for sysconf() names, and names that are not in interfaces
687     */
688     _SC_REGEXP,                "_POSIX_REGEXP",           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_SPORADIC_SERVER, "_POSIX_THREAD_SPORADIC_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_OFFSET64,      "_V6_LP64_OFFSET64",      SYSCONF,      NOFLAGS,
744     _SC_V6_LP64_OFFSET64,      "_POSIX_V6_LP64_OFFSET64",  SYSCONF,      NOFLAGS,
745     _SC_V6_LP64_OFFSET64,      "POSIX_V6_LP64_OFFSET64",  SYSCONF,      NOFLAGS,
746
747     _SC_V6_LPBIG_OFFSETBIG,   "_V6_LPBIG_OFFSETBIG",    SYSCONF,      NOFLAGS,
748     _SC_V6_LPBIG_OFFSETBIG,   "_POSIX_V6_LPBIG_OFFSETBIG", SYSCONF,      NOFLAGS,
749     _SC_V6_LPBIG_OFFSETBIG,   "POSIX_V6_LPBIG_OFFSETBIG", 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_ONLN,     "NPROCESSORS_ONLN",        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 {
767     (void) fputs(gettext(
768         "usage:\`tgetconf [-v specification] system_var\n"
769         "\`tgetconf [-v specification] path_var pathname\n"
770         "\`tgetconf -a\n\"), stderr);
771     return (2);
772 }
773 }

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

780 static int
781 getconf(struct sctab *scp, int argc, char *name, char *file)
782 {
783     register size_t len;
784     register char *buffer;
785     long value;

786     switch (scp->type) {
787     case SELFCONF:
788         if (argc > 2)
789             if (return (usage()));
790         if (scp->flag & UNDEFINED ||
791             (!(scp->flag&UNSIGNED_VALUE) && scp->value == -1)) {
792             /* DO NOT TRANSLATE */
793             (void) printf("undefined\n");
794         } else
795             if (scp->flag & UNSIGNED_VALUE)
796                 (void) printf("%lu\n", scp->value);
797             else
798                 (void) printf("%ld\n", scp->value);
799         break;
800
801     case SYSCONF:
802         if (argc > 2)
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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 "."
927

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 {
969

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 }
```