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9323 Sat Jun 6 11:37:51 2015
new/usr/src/head/stdlib.h
5187 missing functions in stdlib.h : mkostemp, mkostemps & mkdtemp
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*****
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19 * CDDL HEADER END
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34 #ifndef _STDLIB_H
35 #define _STDLIB_H

37 #include <iso/stdlib_iso.h>
38 #include <iso/stdlib_c99.h>

40 #if defined(__EXTENSIONS__) || defined(_XPG4)
41 #include <sys/wait.h>
42 #endif

44 /*
45  * Allow global visibility for symbols defined in
46  * C++ "std" namespace in <iso/stdlib_iso.h>.
47  */
48 #if __cplusplus >= 199711L
49 using std::div_t;
50 using std::ldiv_t;
51 using std::size_t;
52 using std::abort;
53 using std::abs;
54 using std::atexit;
55 using std::atof;
56 using std::atoi;
57 using std::atol;
58 using std::bsearch;
59 using std::calloc;

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60 using std::div;
61 using std::exit;
62 using std::free;
63 using std::getenv;
64 using std::labs;
65 using std::ldiv;
66 using std::malloc;
67 using std::mblen;
68 using std::mbstowcs;
69 using std::mbtowc;
70 using std::qsort;
71 using std::rand;
72 using std::realloc;
73 using std::srand;
74 using std::strtod;
75 using std::strtol;
76 using std::strtoul;
77 using std::system;
78 using std::wcstombs;
79 using std::wctomb;
80 #endif

82 #ifdef __cplusplus
83 extern "C" {
84 #endif

86 #ifndef _UID_T
87 #define _UID_T
88 typedef unsigned int    uid_t;          /* UID type          */
89 #endif /* !_UID_T */

91 /* large file compilation environment setup */
92 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64

94 #ifdef __PRAGMA_REDEFINE_EXTNAME
95 #pragma redefine_extname    mkstemp      mkstemp64
96 #pragma redefine_extname    mkstemps    mkstemps64
97 #pragma redefine_extname    mkostemp    mkostemp64
98 #pragma redefine_extname    mkostemps  mkostemps64
99 #endif /* !codereview */
100 #else /* __PRAGMA_REDEFINE_EXTNAME */
101 #define mkstemp              mkstemp64
102 #define mkstemps             mkstemps64
103 #define mkostemp             mkostemp64
104 #define mkostemps           mkostemps64
105 #endif /* !codereview */
106 #endif /* __PRAGMA_REDEFINE_EXTNAME */

108 #endif /* _FILE_OFFSET_BITS == 64 */

110 /* In the LP64 compilation environment, all APIs are already large file */
111 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)

113 #ifdef __PRAGMA_REDEFINE_EXTNAME
114 #pragma redefine_extname    mkstemp64    mkstemp
115 #pragma redefine_extname    mkstemps64   mkstemps
116 #pragma redefine_extname    mkostemp64   mkostemp
117 #pragma redefine_extname    mkostemps64  mkostemps
118 #endif /* !codereview */
119 #else /* __PRAGMA_REDEFINE_EXTNAME */
120 #define mkstemp64           mkstemp
121 #define mkstemps64         mkstemps
122 #define mkostemp64         mkostemp
123 #define mkostemps64       mkostemps
124 #endif /* !codereview */
125 #endif /* __PRAGMA_REDEFINE_EXTNAME */

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127 #endif /* _LP64 && _LARGEFILE64_SOURCE */

129 #if defined(__EXTENSIONS__) || \
130     (defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
131     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_REENTRANT)
132 extern int rand_r(unsigned int *);
133 #endif

135 extern void _exithandle(void);

137 #if defined(__EXTENSIONS__) || \
138     (defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE)) || \
139     defined(_XPG4)
140 extern double drand48(void);
141 extern double erand48(unsigned short *);
142 extern long jrand48(unsigned short *);
143 extern void lcong48(unsigned short *);
144 extern long lrand48(void);
145 extern long mrand48(void);
146 extern long nrand48(unsigned short *);
147 extern unsigned short *seed48(unsigned short *);
148 extern void srand48(long);
149 extern int putenv(char *);
150 extern void setkey(const char *);
151 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

153 /*
154 * swab() has historically been in <stdlib.h> as delivered from AT&T
155 * and continues to be visible in the default compilation environment.
156 * As of Issue 4 of the X/Open Portability Guides, swab() was declared
157 * in <unistd.h>. As a result, with respect to X/Open namespace the
158 * swab() declaration in this header is only visible for the XPG3
159 * environment.
160 */
161 #if (defined(__EXTENSIONS__) || \
162     (defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE))) && \
163     (defined(_XOPEN_SOURCE) || (defined(_XPG3) && !defined(_XPG4)))
164 #ifndef _SSIZE_T
165 #define _SSIZE_T
166 #if defined(_LP64) || defined(_I32LPx)
167 typedef long    ssize_t;      /* size of something in bytes or -1 */
168 #else
169 typedef int     ssize_t;     /* (historical version) */
170 #endif
171 #endif /* !_SSIZE_T */

173 extern void swab(const char *, char *, ssize_t);
174 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

176 #if defined(__EXTENSIONS__) || \
177     !defined(_XOPEN_OR_POSIX) || defined(_XPG4_2) || \
178     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64)
179 extern int    mkstemp(char *);
180 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
181 extern int    mkstemps(char *, int);
182 #endif
183 #endif /* defined(__EXTENSIONS__) ... */

185 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
186     !defined(_PRAGMA_REDEFINE_EXTNAME))
187 extern int    mkstemp64(char *);
188 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
189 extern int    mkstemp64(char *, int);
190 #endif
191 #endif /* _LARGEFILE64_SOURCE... */

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193 #if !defined(_STRICT_SYMBOLS) || defined(_XPG7)
194 extern char    *mkdtemp(char *);
195 #endif /* !defined(_STRICT_SYMBOLS) || defined(_XPG7) */

197 #if !defined(_STRICT_SYMBOLS)
198 extern int     mkostemp(char *, int);
199 extern int     mkostemps(char *, int, int);
200 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
201     !defined(_PRAGMA_REDEFINE_EXTNAME))
202 extern int     mkostemp64(char *, int);
203 extern int     mkostemps64(char *, int, int);
204 #endif /* defined(_LARGEFILE64_SOURCE) || !((_FILE_OFFSET_BITS == 64) ... */
205 #endif /* !defined(_STRICT_SYMBOLS) */
206 #endif /* !codereview */

208 #if defined(__EXTENSIONS__) || \
209     (defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
210     defined(_XPG4_2)
211 extern long    a64l(const char *);
212 extern char    *ecvt(double, int, int *RESTRICT_KYWD, int *RESTRICT_KYWD);
213 extern char    *fcvt(double, int, int *RESTRICT_KYWD, int *RESTRICT_KYWD);
214 extern char    *gcvt(double, int, char *);
215 extern int     getsuopt(char **, char *const *, char **);
216 extern int     grantpt(int);
217 extern char    *initstate(unsigned, char *, size_t);
218 extern char    *l64a(long);
219 extern char    *mktemp(char *);
220 extern char    *ptsname(int);
221 extern long    random(void);
222 extern char    *realpath(const char *RESTRICT_KYWD, char *RESTRICT_KYWD);
223 extern char    *setstate(const char *);
224 extern void    srandom(unsigned);
225 extern int     unlockpt(int);
226 /* Marked LEGACY in SUSv2 and removed in SUSv3 */
227 #if !defined(_XPG6) || defined(__EXTENSIONS__)
228 extern int     tty slot(void);
229 extern void    *valloc(size_t);
230 #endif /* !defined(_XPG6) || defined(__EXTENSIONS__) */
231 #endif /* defined(__EXTENSIONS__) || ... || defined(_XPG4_2) */

233 #if defined(__EXTENSIONS__) || \
234     (defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
235     defined(_XPG6)
236 extern int     posix_memalign(void **, size_t, size_t);
237 extern int     posix_openpt(int);
238 extern int     setenv(const char *, const char *, int);
239 extern int     unsetenv(const char *);
240 #endif

242 #if defined(__EXTENSIONS__) || \
243     (defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX))
244 extern char    *canonicalize_file_name(const char *);
245 extern int     clearenv(void);
246 extern void    closefrom(int);
247 extern int     daemon(int, int);
248 extern int     dup2(int, int);
249 extern int     dup3(int, int, int);
250 extern int     fdwalk(int (*)(void *, int), void *);
251 extern char    *qecvt(long double, int, int *, int *);
252 extern char    *qfcvt(long double, int, int *, int *);
253 extern char    *qgcvt(long double, int, char *);
254 extern char    *getcwd(char *, size_t);
255 extern const char *getexecname(void);

257 #ifndef _GETLOGIN_DEFINED /* Avoid duplicate in unistd.h */

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258 #define __GETLOGIN_DEFINED
259 #ifndef __USE_LEGACY_LOGNAME
260 #ifdef __PRAGMA_REDEFINE_EXTNAME
261 #pragma redefine_extname getlogin getloginx
262 #else /* __PRAGMA_REDEFINE_EXTNAME */
263 extern char *getloginx(void);
264 #define getlogin getloginx
265 #endif /* __PRAGMA_REDEFINE_EXTNAME */
266 #endif /* __USE_LEGACY_LOGNAME */
267 extern char *getlogin(void);
268 #endif /* __GETLOGIN_DEFINED */

270 extern int getopt(int, char *const *, const char *);
271 extern char *optarg;
272 extern int optind, opterr, optopt;
273 extern char *getpass(const char *);
274 extern char *getpassphrase(const char *);
275 extern int getpw(uid_t, char *);
276 extern int isatty(int);
277 extern void *memalign(size_t, size_t);
278 extern char *ttyname(int);
279 extern char *mkdtemp(char *);
280 extern const char *getprogname(void);
281 extern void setprogname(const char *);

283 #if !defined(_STRICT_STDC) && defined(_LONGLONG_TYPE)
284 extern char *lltostr(long long, char *);
285 extern char *ulltostr(unsigned long long, char *);
286 #endif /* !defined(_STRICT_STDC) && defined(_LONGLONG_TYPE) */

288 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

290 /* OpenBSD compatibility functions */
291 #if !defined(_STRICT_SYMBOLS)

293 #include <inttypes.h>
294 extern uint32_t arc4random(void);
295 extern void arc4random_buf(void *, size_t);
296 extern uint32_t arc4random_uniform(uint32_t);

298 #endif /* !_STRICT_SYMBOLS */

301 #ifdef __cplusplus
302 }
303 #endif

305 #endif /* _STDLIB_H */
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1582 Sat Jun 6 11:37:51 2015
new/usr/src/test/libc-tests/cfg/symbols/stdlib_h.cfg
5187 missing functions in stdlib.h : mkostemp, mkostemps & mkdtemp
Reviewed by: Dan McDonald <danmcd@omniti.com>
Reviewed by: Igor Kozhukhov <ikozhukhov@gmail.com>
*****
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15 #endif /* ! codereview */
16 #
18 #
19 # Definitions found in stdlib.h
20 #
22 #
23 # Types.
24 #
25 type | size_t | stdlib.h | ALL
27 #
28 # Values.
29 #
30 value | EXIT_FAILURE | int | stdlib.h | ALL
31 value | EXIT_SUCCESS | int | stdlib.h | ALL
32 value | NULL | void * | stdlib.h | ALL
34 #
35 # Functions
36 #
37 func | calloc | void * | size_t; size_t | stdlib.h | ALL
38 |
39 |
40 |
41 |
43 func | exit | void | int | stdlib.h | ALL
44 |
45 |
46 |
47 |
49 func | free | void | void * | stdlib.h | ALL
50 |
51 |
52 |
53 |
55 func | malloc | void * | size_t | stdlib.h | ALL
56 |
57 |
58 |
59 |

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61 func | mkstemp | int | char * | stdlib.h | C90 C99 SUSv1+
62 |
63 |
64 |
65 |
67 func | mkostemp | int | char *; int | stdlib.h | -ALL
68 |
69 |
70 |
71 |
73 func | mkostemps | int | char *; int | stdlib.h | C90 C99
74 |
75 |
76 |
77 |
79 func | mkostemps | int | char *; int; int | stdlib.h | -ALL
80 |
81 |
82 |
83 |
85 func | mkdtemp | char * | char * | stdlib.h | -ALL SUSv4+
86 |
87 |
88 |
89 |
90 #endif /* ! codereview */

```