

new/usr/src/head/stdlib.h

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*****  
9323 Mon Apr 20 01:24:19 2015  
new/usr/src/head/stdlib.h  
5187 missing functions in stdlib.h : mkostemp, mkostemps & mkdtemp  
*****  
1 /*  
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3 *  
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16 * fields enclosed by brackets "[]" replaced with your own identifying  
17 * information: Portions Copyright [yyyy] [name of copyright owner]  
18 *  
19 * CDDL HEADER END  
20 */  
  
22 /*  
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>  
24 * Copyright (c) 2013 Gary Mills  
25 *  
26 * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.  
27 */  
  
29 /* Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved. */  
  
31 /* Copyright (c) 1988 AT&T */  
32 /* All Rights Reserved */  
  
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;  
60 using std::div;  
61 using std::exit;
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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::strtol;  
75 using std::strtol;  
76 using std::strtoul;  
77 using std::system;  
78 using std::wcstombs;  
79 using std::wcrtomb;  
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 mkstems mkstems64  
97 #pragma redefine_extname mkostemp mkostemp64  
98 #pragma redefine_extname mkostems mkostemp64  
99 #endif /* ! codereview */  
100 #else /* __PRAGMA_REDEFINE_EXTNAME */  
101 #define mkstemp mkstemp64  
102 #define mkstems mkstems64  
103 #define mkostemp mkostemp64  
104 #define mkostems mkostemp64  
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 mkstems64 mkstems  
116 #pragma redefine_extname mkostemp64 mkostemp  
117 #pragma redefine_extname mkostems64 mkostemp64  
118 #endif /* ! codereview */  
119 #else /* __PRAGMA_REDEFINE_EXTNAME */  
120 #define mkstemp64 mkstemp  
121 #define mkstems64 mkstems  
122 #define mkostemp64 mkostemp  
123 #define mkostems64 mkostemp  
124 #endif /* ! codereview */  
125 #endif /* __PRAGMA_REDEFINE_EXTNAME */  
  
127 #endif /* _LP64 && _LARGEFILE64_SOURCE */
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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
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    mkstemp64(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... */
193 #if !defined(_STRICT_SYMBOLS) || defined(_XPG7)

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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 getsubopt(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 ttyslot(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 */
258 #define __GETLOGIN_DEFINED
259 #ifndef __USE_LEGACY_LOGNAME

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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, optarg, 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 *getprogrname(void);
281 extern void setprogrname(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 */
```