

new/usr/src/head/complex.h

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*****
4764 Wed Nov 26 19:55:51 2014
new/usr/src/head/complex.h
5367 complex.h /* #if !defined(__cplusplus) */ comment foils gcc fixincludes
*****
1 /*
2 * CDDL HEADER START
3 *
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16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
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19 * CDDL HEADER END
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21 /*
22 * Copyright 2011 Nexenta Systems, Inc. All rights reserved.
23 */
24 /*
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 #ifndef _COMPLEX_H
30 #define _COMPLEX_H

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 /* #if !defined(__cplusplus) */

36 /*
37 * Compilation environments for Solaris must provide the _Imaginary datatype
38 * and the compiler intrinsics _Complex_I and _Imaginary_I
39 */
40 #if defined(__SUNPRO_C)
41 #define _Complex_I _Complex_I
42 #define _Imaginary_I _Imaginary_I
43 #else
44 #define _Complex_I 1.0fi
45 #define _Imaginary_I 1.0fi
46 #endif
47 #define complex _Complex
48 #define imaginary _Imaginary
49 #undef I
50 #define I _Imaginary_I

52 extern float cabsf(float complex);
53 extern float cargf(float complex);
54 extern float cimagf(float complex);
55 extern float crealf(float complex);
56 extern float complex cacosf(float complex);
57 extern float complex cacoshf(float complex);
58 extern float complex casinf(float complex);
59 extern float complex casinhf(float complex);
```

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```
60 extern float complex catanf(float complex);
61 extern float complex catanhf(float complex);
62 extern float complex ccosf(float complex);
63 extern float complex ccoshf(float complex);
64 extern float complex cexpf(float complex);
65 extern float complex clogf(float complex);
66 extern float complex conjf(float complex);
67 extern float complex cpowf(float complex, float complex);
68 extern float complex cprojf(float complex);
69 extern float complex csinf(float complex);
70 extern float complex csinhf(float complex);
71 extern float complex csqrhf(float complex);
72 extern float complex ctanf(float complex);
73 extern float complex ctanhf(float complex);

75 extern double cabs(double complex);
76 extern double carg(double complex);
77 extern double cimag(double complex);
78 extern double creal(double complex);
79 extern double complex cacos(double complex);
80 extern double complex cacosh(double complex);
81 extern double complex casin(double complex);
82 extern double complex casinh(double complex);
83 extern double complex catan(double complex);
84 extern double complex catanh(double complex);
85 extern double complex ccos(double complex);
86 extern double complex ccosh(double complex);
87 extern double complex cexp(double complex);
88 #if defined(__PRAGMA_REDEFINE_EXTNAME)
89 #pragma redefine_extname clog __clog
90 #else
91 #undef clog
92 #define clog __clog
93 #endif
94 extern double complex clog(double complex);
95 extern double complex conj(double complex);
96 extern double complex cpow(double complex, double complex);
97 extern double complex cproj(double complex);
98 extern double complex csin(double complex);
99 extern double complex csinh(double complex);
100 extern double complex csqrhf(double complex);
101 extern double complex ctan(double complex);
102 extern double complex ctanh(double complex);

104 extern long double cabsl(long double complex);
105 extern long double cargl(long double complex);
106 extern long double cimagl(long double complex);
107 extern long double creall(long double complex);
108 extern long double complex cacoshl(long double complex);
109 extern long double complex cacosl(long double complex);
110 extern long double complex casinhl(long double complex);
111 extern long double complex casinl(long double complex);
112 extern long double complex catanhl(long double complex);
113 extern long double complex catanl(long double complex);
114 extern long double complex ccoshl(long double complex);
115 extern long double complex ccosl(long double complex);
116 extern long double complex cexpl(long double complex);
117 extern long double complex clogl(long double complex);
118 extern long double complex conjl(long double complex);
119 extern long double complex cpowl(long double complex, long double complex);
120 extern long double complex cprojl(long double complex);
121 extern long double complex csinhl(long double complex);
122 extern long double complex csinlh(long double complex);
123 extern long double complex csqrhl(long double complex);
124 extern long double complex ctanhl(long double complex);
125 extern long double complex ctanhl(long double complex);
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129 /* #endif */ /* !defined(__cplusplus) */
127 #ifdef __cplusplus
128 }
129 #endif
130 #endif /* _COMPLEX_H */
```