

C Standard Library header files

The interface of C standard library is defined by the following collection of headers.

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| <code><assert.h></code> | Conditionally compiled macro that compares its argument to zero |
| <code><complex.h></code> (C99) | Complex number arithmetic |
| <code><ctype.h></code> | Functions to determine the type contained in character data |
| <code><errno.h></code> | Macros reporting error conditions |
| <code><fenv.h></code> (C99) | Floating-point environment |
| <code><float.h></code> | Limits of floating-point types |
| <code><inttypes.h></code> (C99) | Format conversion of integer types |
| <code><iso646.h></code> (C95) | Alternative operator spellings |
| <code><limits.h></code> | Ranges of integer types |
| <code><locale.h></code> | Localization utilities |
| <code><math.h></code> | Common mathematics functions |
| <code><setjmp.h></code> | Nonlocal jumps |
| <code><signal.h></code> | Signal handling |
| <code><stdalign.h></code> (C11) | alignas and alignof convenience macros |
| <code><stdarg.h></code> | Variable arguments |
| <code><stdatomic.h></code> (C11) | Atomic operations |
| <code><stdbool.h></code> (C99) | Macros for boolean type |
| <code><stddef.h></code> | Common macro definitions |
| <code><stdint.h></code> (C99) | Fixed-width integer types |
| <code><stdio.h></code> | Input/output |
| <code><stdlib.h></code> | General utilities: memory management, program utilities, string conversions, random numbers, algorithms |
| <code><stdnoreturn.h></code> (C11) | noreturn convenience macro |
| <code><string.h></code> | String handling |
| <code><tgmath.h></code> (C99) | Type-generic math (macros wrapping math.h and complex.h) |
| <code><threads.h></code> (C11) | Thread library |
| <code><time.h></code> | Time/date utilities |
| <code><uchar.h></code> (C11) | UTF-16 and UTF-32 character utilities |
| <code><wchar.h></code> (C95) | Extended multibyte and wide character utilities |
| <code><wctype.h></code> (C95) | Functions to determine the type contained in wide character data |

References

- C17 standard (ISO/IEC 9899:2018):
 - 7.1.2 Standard headers (p: 131-132)
- C11 standard (ISO/IEC 9899:2011):
 - 7.1.2 Standard headers (p: 181-182)
- C99 standard (ISO/IEC 9899:1999):
 - 7.1.2 Standard headers (p: 165)
- C89/C90 standard (ISO/IEC 9899:1990):
 - 4.1.2 Standard headers

See also

C++ documentation for C++ Standard Library header files

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