C keywords

This is a list of reserved keywords in C. Since they are used by the language, these keywords are not available for re-definition.

auto break case char const continue default do double else enum extern	float for goto if inline (since C99) int long register restrict (since C99) return short	signed sizeof static struct switch typedef union unsigned void volatile while	Imaginary (since C99)
---	--	---	-----------------------

The most common keywords that begin with an underscore are generally used through their convenience macros:

used as	defined in
alignas	stdalign.h
alignof	stdalign.h
atomic_bool, atomic_int,	stdatomic.h
bool	stdbool.h
complex	complex.h
(no macro)	
imaginary	complex.h
noreturn	stdnoreturn.h
static_assert	assert.h
thread_local	threads.h
	alignas alignof atomic_bool, atomic_int, bool complex (no macro) (no macro) (no macro) imaginary noreturn static_assert

Also, each name that begins with a double underscore __ or an underscore followed by an uppercase letter is reserved: see identifier for details.

Note that digraphs <%, %>, <:, :>, %:, and %:%: provide an alternative way to represent standard tokens.

The following tokens are recognized by the preprocessor when they are used within the context of a preprocessor directive:

	elif else	ifdef ifndef define undef	error	defined has_c_attribute (since C23)
--	--------------	------------------------------------	-------	--

The following tokens are recognized by the preprocessor when they are used *outside* the context of a preprocessor directive:

_Pragma (since C99)

The following additional keywords are classified as extensions and conditionally-supported:

asm fortran

References

- C17 standard (ISO/IEC 9899:2018):
 - 6.4.1 Keywords (p: 42-43)
 - J.5.9 The fortran keyword (p: 422)
 - J.5.10 The asm keyword (p: 422)
- C11 standard (ISO/IEC 9899:2011):
 - 6.4.1 Keywords (p: 58-59)
 - J.5.9 The fortran keyword (p: 580)
 - J.5.10 The asm keyword (p: 580)
- C99 standard (ISO/IEC 9899:1999):
 - 6.4.1 Keywords (p: 50)
 - J.5.9 The fortran keyword (p: 514)
 - J.5.10 The asm keyword (p: 514)
- C89/C90 standard (ISO/IEC 9899:1990):
 - 3.1.1 Keywords
 - G.5.9 The fortran keyword
 - G.5.10 The asm keyword

See also

C++ documentation for C++ keywords

Retrieved from "https://en.cppreference.com/mwiki/index.php?title=c/keyword&oldid=138712"