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header

<cli>its> (limits.h)

Sizes of integral types

This header defines constants with the limits of fundamental integral types for the specific system and compiler implementation used.

The limits for fundamental floating-point types are defined in $\langle cfloat \rangle$ ($\langle float.h \rangle$). The limits for width-specific integral types and other typedef types are defined in cstdint> ((cstdint>).

Macro constants

name	expresses	value*
CHAR_BIT	Number of bits in a char object (byte)	8 or greater*
SCHAR_MIN	Minimum value for an object of type signed char	-127 (-2 ⁷ +1) or less*
SCHAR_MAX	Maximum value for an object of type signed char	127 (2 ⁷ -1) or greater*
UCHAR_MAX	Maximum value for an object of type unsigned char	255 (2 ⁸ -1) or greater*
CHAR_MIN	Minimum value for an object of type char	either SCHAR_MIN or 0
CHAR_MAX	Maximum value for an object of type char	either schar_max or uchar_max
MB_LEN_MAX	Maximum number of bytes in a multibyte character, for any locale	1 or greater*
SHRT_MIN	Minimum value for an object of type short int	-32767 (-2 ¹⁵ +1) or less*
SHRT_MAX	Maximum value for an object of type short int	32767 (2 ¹⁵ –1) or greater*
USHRT_MAX	Maximum value for an object of type unsigned short int	65535 (2 ¹⁶ –1) or greater*
INT_MIN	Minimum value for an object of type int	-32767 (-2 ¹⁵ +1) or less*
INT_MAX	Maximum value for an object of type int	32767 (2 ¹⁵ –1) or greater*
UINT_MAX	Maximum value for an object of type unsigned int	65535 (2 ¹⁶ –1) or greater*
LONG_MIN	Minimum value for an object of type long int	-2147483647 (-2 ³¹ +1) or less*
LONG_MAX	Maximum value for an object of type long int	2147483647 (2 ³¹ –1) or greater*
ULONG_MAX	Maximum value for an object of type unsigned long int	4294967295 (2 ³² –1) or greater*
LLONG_MIN	Minimum value for an object of type long long int	-9223372036854775807 (-2 ⁶³ +1) or less*
LLONG_MAX	Maximum value for an object of type long long int	9223372036854775807 (2 ⁶³ -1) or greater*
ULLONG_MAX	Maximum value for an object of type unsigned long long int	18446744073709551615 (2 ⁶⁴ -1) or greater*

^{*} the actual value depends on the particular system and library implementation, but shall reflect the limits of these types in the target platform.

Compatibility

See also

<cfloat> (float.h) Characteristics of floating-point types (header)

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