

Libreria limits.h

La libreria limits.h definisce un insieme di costanti che contengono i valori minimi e massimi per i tipi di dati utilizzati nel linguaggio C. Di seguito la tabella per i numeri senza virgola:

Constant	Value	Meaning
SCHAR_MAX	127	Maximum signed char value
SCHAR_MIN	-128	Minimum signed char value
UCHAR_MAX	255 (0xff)	Maximum unsigned char value
CHAR_BIT	8	Number of bits in a char
USHRT_MAX	65535 (0xffff)	Maximum unsigned short value
SHRT_MAX	32767	Maximum (signed) short value
SHRT_MIN	-32768	Minimum (signed) short value
UINT_MAX	4294967295 (0xffffffff)	Maximum unsigned int value
ULONG_MAX	4294967295 (0xffffffff)	Maximum unsigned long value
INT_MAX	2147483647	Maximum (signed) int value
INT_MIN	-2147483647-1	Minimum (signed) int value
LONG_MAX	2147483647	Maximum (signed) long value
LONG_MIN	-2147483647-1	Minimum (signed) long value
CHAR_MAX	127 (255 if /J option used)	Maximum char value
CHAR_MIN	-128 (0 if /J option used)	Minimum char value
MB_LEN_MAX	2	Maximum number of bytes in multibyte char
_I64_MAX	9223372036854775807	Maximum (signed) _int64 value
_I64_MIN	-9223372036854775807-1	Minimum (signed) _int64 value
_UI64_MAX	0xffffffffffffffff	Maximum (unsigned) _int64 value

Conversioni di tipo automatiche

Promozione automatica	da	...	a
	char	...	int
	short int	...	int
	int	...	long int
	long int	...	double
	float	...	double

Quella che segue è la tabella per i numeri con la virgola:

Constant	Value	Description
DBL_DIG	15	# of decimal digits of precision
DBL_EPSILON	2.2204460492503131e-016	Smallest such that 1.0+DBL_EPSILON !=1.0
DBL_MANT_DIG	53	# of bits in mantissa
DBL_MAX	1.7976931348623158e+308	Maximum value
DBL_MAX_10_EXP	308	Maximum decimal exponent
DBL_MAX_EXP	1024	Maximum binary exponent
DBL_MIN	2.2250738585072014e-308	Minimum positive value
DBL_MIN_10_EXP	(-307)	Minimum decimal exponent
DBL_MIN_EXP	(-1021)	Minimum binary exponent
_DBL_RADIX	2	Exponent radix
_DBL_ROUNDS	1	Addition rounding: near
FLT_DIG	6	Number of decimal digits of precision
FLT_EPSILON	1.192092896e-07F	Smallest such that 1.0+FLT_EPSILON !=1.0
FLT_MANT_DIG	24	Number of bits in mantissa
FLT_MAX	3.402823466e+38F	Maximum value
FLT_MAX_10_EXP	38	Maximum decimal exponent
FLT_MAX_EXP	128	Maximum binary exponent
FLT_MIN	1.175494351e-38F	Minimum positive value
FLT_MIN_10_EXP	(-37)	Minimum decimal exponent
FLT_MIN_EXP	(-125)	Minimum binary exponent
FLT_RADIX	2	Exponent radix
FLT_ROUNDS	1	Addition rounding: near

Specificatori di formato

Tipo	scanf	printf
char	"%c"	"%c", "%d"
int	"%d"	"%d"
short int	"%hd"	"%hd", "%d"
long int	"%ld"	"%ld"
unsigned int	"%u", "%o", "%x"	"%u", "%o", "%x"
unsigned short int	"%hu"	"%hu"
unsigned long int	"%lu"	"%lu"
float	"%f"	"%f", "%g"
double	"%lf"	"%f", "%g"