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C Data Types

The following table shows the data types allowed in LabWindows/CVI.

Туре	Size	Minimum	Maximum
char	8	-128	127
unsigned char	8	0	255
short	16	-32,768	32,767
unsigned short	16	0	65,535
int; long int	32	-2 ³¹	2 ³¹ – 1
int64;long long	64	-2 ⁶³	2 ⁶³ – 1
unsigned int	32	0	2 ³² – 1
unsignedint64; unsigned long long	64	0	2 ⁶⁴ – 1
unsigned long	32	0	2 ³² – 1
float	32	-3.40282E+38	3.40282E+38
double; long double	64	-1.79769E+308	1.79769E+308
pointers (void *)	32 (32-bit OSes) 64 (64-bit OSes)		N/A
enum	32	-2 ³¹	2 ³¹ – 1
size_t	32 (32-bit OSes) 64 (64-bit OSes)	0 (32-bit OSes) 0 (64-bit OSes)	2 ³² – 1 (32-bit OSes) 2 ⁶⁴ – 1 (64-bit OSes)
ssize_t	32 (32-bit OSes) 64 (64-bit OSes)		2 ³¹ – 1 (32-bit OSes) 2 ⁶³ – 1
intptr_t	32 (32-bit OSes) 64 (64-bit OSes)		N/A
ptrdiff_t	32 (32-bit OSes) 64 (64-bit OSes)		N/A
uintptr_t	32 (32-bit OSes) 64 (64-bit OSes)		N/A

In LabWindows/CVI, characters are signed, unless you explicitly declare them unsigned. The types float and double conform to 4-byte and 8-byte IEEE standard formats.

WAS THIS ARTICLE HELPFUL?

Helpful

Not Helpful





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LabWindows/CVI 2017 Help

Edition Date: May 2017

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