## Data Types in ANSI C

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Type	MACRO	Data Type	Storage size	ranger
char	int8_t	8 bits	1 bytes	-128127
unsigned char	uint8_t	8 bits	1 bytes	255
short	int16_t	16 bits	2 bytes	-3276832767
unsigned short	uint16_t	16 bits	2 bytes	65535
int	int32_t	32 bits	4 bytes	$-2147483648\dots 2147483647$
unsigned int	uint32_t	32 bits	4 bytes	4294967295
long	int64_t	64 bits	8 bytes	$-9223372036854775808\dots$
				9223372036854775807
float	blank	32 bits	4 bytes	$1.17549 \times 10^{-38} \dots 3.40282 \times 10^{38}$
double	blank	64 bits	8 bytes	$2.22507 \times 10^{-308} \dots 1.79769 \times 10^{308}$
long double	blank	128 bits	10 bytes	$3.3621 \times 10^{-4932} \dots 1.18973 \times 10^{4932}$

n.b MACROS are defined in <stdint.h> library