











HMC CS





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Bit pattern is maintained-but reinterpreted

Can have unexpected effects: adding or subtracting 2^w

In expression containing signed and unsigned int:

int is cast to unsigned!!

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Sign Extension Example

short	int x =	15213;
int	ix =	(int)x;
short	int y =	-15213;
int	iy =	(int)y;

	Decimal	Hex				Binary				
х	15213			3в	6D			00111011	01101101	
ix	15213	00	00	3B	6D	00000000	00000000	00111011	01101101	
У	-15213			C4	93			11000100	10010011	
iy	-15213	FF I	FF	C4	93	11111111	11111111	11000100	10010011	

Converting from smaller to larger integer data type

C automatically performs sign extension

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