

Some Useful Tables

Binary-Hexadecimal				Decimal-Hexadecimal				Multiples of 16		Octal-Binary	
The values in the left two columns are bitwise complements of the values in the right two columns. This is useful for converting signed numbers.				The values in the left two columns are hexadecimal complements of the values in the right two columns. This is useful for converting signed numbers.				The conversion algorithms between hexadecimal and decimal require multiplying 16 times a decimal digit. This table shows these products.		Here are conversions between octal digits and binary.	
Bin	Hex	Hex	Bin	Dec	Hex	Hex	Dec	d	d×16	Oct	Bin
0000	0	F	1111	0	0	F	15	0	0	0	000
0001	1	E	1110	1	1	E	14	1	16	1	001
0010	2	D	1101	2	2	D	13	2	32	2	010
0011	3	C	1100	3	3	C	12	3	48	3	011
0100	4	B	1011	4	4	B	11	4	64	4	100
0101	5	A	1010	5	5	A	10	5	80	5	101
0110	6	9	1001	6	6	9	9	6	96	6	110
0111	7	8	1000	7	7	8	8	7	112	7	111
								8	128		
								9	144		

Powers of 10 and 2

This table shows the approximate relationship between powers of 10 and powers of 2 and their prefixes and abbreviations. The prefixes and abbreviations in parentheses are recommended for exact powers of 2. For example, a computer with 1 GiB (1 gibibyte) of memory has $2^{30} = 1,073,741,824$ bytes.

Prefix	Abbreviation	Power of 10	Power of 2
yocto	y	10^{-24}	2^{-80}
zepto	z	10^{-21}	2^{-70}
atto	a	10^{-18}	2^{-60}
femto	f	10^{-15}	2^{-50}
pico	p	10^{-12}	2^{-40}
nano	n	10^{-9}	2^{-30}
micro	μ	10^{-6}	2^{-20}
milli	m	10^{-3}	2^{-10}
–	–	10^0	2^0
kilo (kibi)	K (Ki)	10^3	2^{10}
mega (mebi)	M (Mi)	10^6	2^{20}
giga (gibi)	G (Gi)	10^9	2^{30}
tera (tebi)	T (Ti)	10^{12}	2^{40}
peta (pebi)	P (Pi)	10^{15}	2^{50}
exa (exbi)	E (Ei)	10^{18}	2^{60}
zetta (zebi)	Z (Zi)	10^{21}	2^{70}
yotta (yobi)	Y (Yi)	10^{24}	2^{80}