



poster 2—*binary prefixes*

mtable 2014.5—prefixes for binary multiples.

factor	name	symbol	origin	derivation
2^{10}	kibi	Ki	kilobinary: $(2^{10})^1$	kilo: $(10^3)^1$
2^{20}	mebi	Mi	megabinary: $(2^{10})^2$	mega: $(10^3)^2$
2^{30}	gibi	Gi	gigabinary: $(2^{10})^3$	giga: $(10^3)^3$
2^{40}	tebi	Ti	terabinary: $(2^{10})^4$	tera: $(10^3)^4$
2^{50}	pebi	Pi	petabinary: $(2^{10})^5$	peta: $(10^3)^5$
2^{60}	exbi	Ei	exabinary: $(2^{10})^6$	exa: $(10^3)^6$
2^{70}	zebi	Zi	zettabinary: $(2^{10})^7$	zetta: $(10^3)^7$
2^{80}	yobi	Yi	yottabinary: $(2^{10})^8$	yotta: $(10^3)^8$

mtable 2014.6—comparison of SI and binary prefixes.

one kibibit	1 Kibit = 2^{10} bit =	1024 bit
one kilobit	1 kbit = 10^3 bit =	1000 bit
one mebibyte	1 MiB = 2^{20} B =	1 048 576 B
one megabyte	1 MB = 10^6 B =	1 000 000 B
one gibibyte	1 GiB = 2^{30} B =	1 073 741 824 B
one gigabyte	1 GB = 10^9 B =	1 000 000 000 B

source: <http://en.wikipedia.org/wiki/Byte>

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