



# 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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