

as the "real true meaning" when computers were involved. But then disk technology changed, and disk sizes became arbitrary numbers. After a period of uncertainty all disk manufacturers settled on the standard, namely $k=1000$, $M=1000\ k$, $G=1000\ M$.

The situation was messy: in the 14k4 modems, $k=1000$; in the 1.44 MB diskettes, $M=1024000$; and so on. In 1998 the IEC approved the standard that defines the binary prefixes given above, enabling people to be precise and unambiguous.

Thus, today, $MB = 1000000\ B$ and $MiB = 1048576\ B$.

In the free software world programs are slowly being changed to conform. When the Linux kernel boots and says

```
hda: 120064896 sectors (61473 MB) w/2048KiB Cache
```

the MB are megabytes and the KiB are kibibytes.

SEE ALSO

The International System of Units [⟨https://www.bipm.org/documents/20126/41483022/SI-Brochure-9.pdf⟩](https://www.bipm.org/documents/20126/41483022/SI-Brochure-9.pdf).