1

```
\magnification = \langle number \rangle
\mag [ \langle number \rangle parameter ]
```

An assignment to $\mbox{\mbox{magnification}}$ establishes the "scale factor" f that determines the magnification ratio of your document (see "magnification", p. 'magnification'). The assignment to $\mbox{\mbox{\mbox{magnification}}}$ must occur before the first page of your document has been shipped out.

The assignment sets f to $\langle number \rangle$ and also sets \hsize and \vsize respectively to 6.5true in and 8.9true in, the values appropriate for an $8^1/_2$ -by-11-inch page. f must be between 0 and 32768. The magnification ratio of the document is f/1000. A scale factor of 1000 provides unit magnification, i.e., it leaves the size of your document unchanged. It's customary to use powers of 1.2 as scale factors, and most libraries of fonts are based on such factors. You can use the \magstep and \magstephalf commands to specify magnifications by these factors.

\magnification is not a parameter. You can't use it to retrieve the scale factor. If you write something like \dimen0 = \magnification, TFX will complain about it.

The \mag parameter contains the scale factor. Changing the value of \mag rescales the page dimensions, which is not usually what you want. Therefore it's usually better to change the magnification by assigning to \magnification rather than to \mag.

Example:

```
\magnification = \magstep2
% magnify fonts by 1.44 (=1.2x1.2)
```