The isonums package*

M. Väth
vaeth@mathematik.uni-wuerzburg.de
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Adapted to handle English formatted numbers:
Luis Rivera, jlrn77@gmail.com

This package provides the macros

\ZifferAn \ZifferPunktAn \ZifferStrichAn
\ZifferAus \ZifferPunktAus \ZifferStrichAus

If \ZifferAn was used, then in numbers in math-mode the following happens:

‘.’ is used as a ‘one-thousand separator’ as common in Germany
‘,’ is used as a decimal separator as common in Germany
‘--’ generates a -- with better spacing (e.g. in 1.000,--)

You may still use the symbols ‘.’ , ’, and ‘-’ in other context in math mode.

The first two conversions are switched on by default, the last conversion has
to be switched on explicitly (this has been changed in v2.1): You may switch
on/off the conversions with

\ZifferPunktAn/\ZifferPunktAus \ZifferStrichAn/\ZifferStrichAus

(for the first two conversions)

respectively

(for the last conversion).

*This manual corresponds to isonums v1.0, dated 2007/12/31, based on ziffer v2.2.
The reason why the last conversion is not on by default (and why it might be necessary to [temporarily] switch off a conversion) is that certain packages (in particular, newer versions of \texttt{amsmath}) cause problems with it.

There were some discussions which should be the correct output of the above conversions (in particular, of ‘\textemdash’). If you do not like my choice: You may customize (i.e. redefine) the macros \texttt{\textbackslash \textit{ZifferLeer}} and \texttt{\textbackslash \textit{ZifferStrich}} after loading the package to produce the ‘one-thousand separator’ respectively the ‘\textemdash’.

All above command-names are in German, because I had expected that this package is only needed for German texts. Meanwhile, I learned that also other countries use this strange convention for numbers. However, for downward compatibility, I decided to keep the name conventions anyway (after all, the name of the package is in German anyway).

The extension options (\texttt{euro}, \texttt{anglo}) define the input format, so that all numbers in math mode are displayed in ISO–31–0 format, regardless of input format. The commands \texttt{\textbackslash \textit{EuroZiffer}} and \texttt{\textbackslash \textit{AngloZiffer}} make local changes within the document body. I wrote these extensions as I use the decimal point consistently and I found convenient to make conversions to all numbers simply by adjusting a command line in the whole document.— Luis.