A virtual font for URW Chancery Math

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The URW clone of the universally available PostScript font Zapf Chancery may be used as a math calligraphic font by means of the following lines in the preamble:

```
\DeclareFontFamily{OT1}{pzc}{}
\DeclareFontShape{OT1}{pzc}{m}{it}{<-> s * [1.15] pzcmi7t}{}
\DeclareMathAlphabet{\mathpzc}{OT1}{pzc}{m}{it}
```

The results are not always good if you attach math accents or sub-/super-scripts as the metrics are designed for a text font rather than a math font.

This small package provides a virtual math font linked to `uzcimi8r` with side-bearings, subscript position and accent position adjusted manually for each glyph. Following

```
\usepackage[scaled=1.15]{urwchancal}
```

which redefines `\mathcal` to output URW Chancery glyphs, the input line

```
[A=\bar{\mathcal{M}}^2_k+\hat{\mathcal{Z}}.\]
```

yields

\[
A = \bar{M}_k^2 + \hat{Z}.
\]

In addition to `scaled`, there is an option `mathscr`, which enables `\mathscr` rather than `\mathcal` to point to URW Chancery.

The long tails on some of the glyphs make this font problematic as a math font, but it has some virtues, not the least being its universal availability. For a font of similar appearance without the long-tail problems, consider the script font in Mathematica5.