AN ACUTE SCRIPT FONT BASED ON RSFS

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The rsfs fonts are, in their natural states, very oblique, appearing to be slanted to the right at close to 45°. In my opinion, this makes them less suited for use as a replacement for \texttt{mathcal}. (The \texttt{mathrsfs} package defines \texttt{mathscrl} to use rsfs for output.)

The purpose of this package is to make a collection of virtual fonts from the rsfs PostScript fonts that remove much of the slant. The o in rsfs stands for oblique, though acute would be a better description. The end result is quite similar in appearance, modulo a few flourishes, to the commercial script font in the Adobe Mathematical Pi collection. Here is a sample (as a png snapshot) of the latter, produced via \texttt{\usepackage[mathcal]{mathpi}}.

\begin{verbatim}
ABCDEFGHIJKLMNOPQRSTUVWXYZ
\hat{A}\hat{F}\hat{I}M_2^k
\end{verbatim}

The second line above shows that work will need to be performed to get spacing, accents and subscript positions in better shape than when invoked by the now obsolete \texttt{mathpi} package. The same fragment using rsfs renders as

\begin{verbatim}
ABCDEFGHIJKLMNOPQRSTUVWXYZ
\hat{a}\hat{\mathcal{F}}_i\hat{\mu}_k^2
\end{verbatim}

and with \texttt{mathrsfs} you get

\begin{verbatim}
ABCDEFGHIJKLMNOPQRSTUVWXYZ
\hat{a}\hat{\mathcal{F}}_i\hat{\mu}_k^2
\end{verbatim}

The rsfs package has two options: scr causes a redefinition of \texttt{mathscrl} rather than \texttt{mathcal}, and \texttt{[scaled=1.1]} expands the size by a factor of 1.1, allowing you to match the size of the \texttt{mathcal} (or \texttt{mathscrl}) output to your math font.

The virtual font production and their metric adjustments were carried out using the author’s freely available OS X program \texttt{TeXFontUtility} which serves, among other functions, as a visual front-end to some \texttt{fontinst} manipulations.

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