

# AN ACUTE SCRIPT FONT BASED ON RSFS

MICHAEL SHARPE

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 `\mathcal`. (The `\mathrsfs` package defines `\mathscr` 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 `rsfso` 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 `\usepackage[mathcal]{mathpi}`.

*ABCDEFGHIJKL MNOPQ RSTUVWXYZ*

*$\hat{A} \hat{\mathcal{F}}_i \bar{M}_k^2$*

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 `mathpi` package. The same fragment using `rsfso` renders as

*ABCDEFGHIJKL MNOPQ RSTUVWXYZ*

*$\hat{A} \hat{\mathcal{F}}_i \bar{M}_k^2$*

and with `mathrsfs` you get

*ABCDEFGHIJKL MNOPQ RSTUVWXYZ*

*$\hat{A} \hat{\mathcal{F}}_i \bar{M}_k^2$*

The `rsfso` package has two options: `scr` causes a redefinition of `\mathscr` rather than `\mathcal`, and `[scaled=1.1]` expands the size by a factor of 1.1, allowing you to match the size of the `\mathcal` (or `\mathscr`) 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 `TeXFontUtility` which serves, among other functions, as a visual front-end to some `fontinst` manipulations.

*E-mail address:* msharpe at ucsd dot edu