

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 `\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}`.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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

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

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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

and with **mathrsfs** you get

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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

The **rsfso** package has just one option: `[scaled=1.1]` expands the size by a factor of 1.1, allowing you to match the size of the `\mathcal` 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.

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