Alternate integrals signs with LATEX 2ε

Eddie Saudrais

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Abstract

The package esint.sty allows you to use new integrals symbols.

1 Installation

Run $\mathbb{L}_{\mathrm{LX}} \, 2_{\mathcal{E}}$ on esint.
ins to generate files:

- 1. Put esint.sty on TEXINPUT.
- 2. Put uesint.fd on TEXINPUT, for example with esint.sty.
- 3. Put esint10.mf, mathint.mf and bigint.mf on MFINPUT.

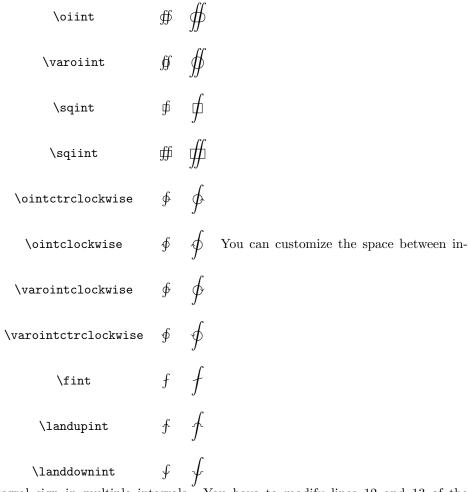
Run METAFONT on esint10.mf file to generate esint10.tfm files: mf \mode=localfont; input esint10.mf Put esint10.tfm on the right place.

2 Using esint

Load the package with \usepackage{esint}, and enjoy! BE CAREFUL: esint must be loaded AFTER amslatex Available integrals signs:

Commande textstyle displaystyle

\int	\int	\int
\iint	\iint	\iint
\iiint	\iiint	\iiint
\iiiint	JJJJ	<i></i>
\dotsint	$\int \cdots \int$	$\int \!\! \!\! \int$
\oint	∮	\oint



tegral sign in multiple integrals. You have to modify lines 12 and 13 of the esint10.mf file: tdec# and ddec# are spaces between signs. If you modify esint10.mf, delete esint10.tfm, the generated *.pk files, and run METAFONT on esint10.mf.

3 Updates

• 20/01/2005: change in esint.fd in order to avoid a problem inside align environment. Thank's to Eckhard Neber. Font files (mf, pfb, tfm...) are unchanged.

4 The code

The package identifies himself

- 1 (*package)
- 2 \NeedsTeXFormat{LaTeX2e}
- 3 \ProvidesPackage{esint}

To redifine symbols

```
4 \def\re@DeclareMathSymbol#1#2#3#4{%
                                       \let#1=\undefined
  5
                                       \DeclareMathSymbol{#1}{#2}{#3}{#4}}
Definition of the symbol font:
   7 \DeclareSymbolFont{largesymbolsA}{U}{esint}{m}{n}
Definition of the new symbols:
   8 \re@DeclareMathSymbol{\intop}{\mathop}{largesymbolsA}{'001}
                                       \def\int{\intop\nolimits}
10 \end{10} $$10 \end{10} {\mathbf Mathop}{\end{10}} $$10 \end{10} $$10 \end
                                      \def\iint{\iintop\nolimits}
12 \re@DeclareMathSymbol{\iiintop}{\mathop}{largesymbolsA}{'005}
                                      \def\iiint{\iiintop\nolimits}
14 \re@DeclareMathSymbol{\iiiintop}{\mathop}{largesymbolsA}{'007}
                                      \def\iiiint{\iiiintop\nolimits}
16 \re@DeclareMathSymbol{\dotsintop}{\mathop}{largesymbolsA}{'011}
                                      \def\dotsint{\dotsintop\nolimits}
18 \end{10} \label{largesymbolsA} {\cite{13}} $$ \end{10} \end{10} $$ \end{10} $$ \cite{13}$ \end{10} $$ \cite{13}$ \end{10} $$ \cite{13}$ \c
                                      \def\oint{\ointop\nolimits}
20 \re@DeclareMathSymbol{\oiintop}{\mathop}{largesymbolsA}{'015}
                                      \def\oiint{\oiintop\nolimits}
22 \re@DeclareMathSymbol{\sqintop}{\mathop}{largesymbolsA}{'017}
                                      \def\sqint{\sqintop\nolimits}
24 \re@DeclareMathSymbol{\sqiintop}{\mathop}{largesymbolsA}{'021}
25
                                       \def\sqiint{\sqiintop\nolimits}
26 \re@DeclareMathSymbol{\ointctrclockwiseop}{\mathop}{largesymbolsA}{'027}
                                       \def\ointctrclockwise{\ointctrclockwiseop\nolimits}
28 \re@DeclareMathSymbol{\ointclockwiseop}{\mathop}{largesymbolsA}{'031}
                                      \def\ointclockwise(\ointclockwiseop\nolimits)
30 \re@DeclareMathSymbol{\varointclockwiseop}{\mathop}{largesymbolsA}{'033}
                                      \def\varointclockwise{\varointclockwiseop\nolimits}
{\tt 32 \ largesymbolsA} {\tt (035)} \\
                                      \def\varointctrclockwise{\varointctrclockwiseop\nolimits}
34 \re@DeclareMathSymbol{\fintop}{\mathop}{largesymbolsA}{'037}
                                      \def\fint{\fintop\nolimits}
36 \re@DeclareMathSymbol{\varoiintop}{\mathop}{largesymbolsA}{'041}
                                      \def\varoiint{\varoiintop\nolimits}
38 \re@DeclareMathSymbol{\landupintop}{\mathop}{largesymbolsA}{'043}
                                      \def\landupint{\landupintop\nolimits}
40 \end{are} All and down in top} {\end{are} Algorithms and the point of the property of the
                                       \def\landdownint{\landdownintop\nolimits}
42 (/package)
43 (*fdfile)
Font definition file:
44 \ProvidesFile{uesint.fd}
45 \DeclareFontFamily{U}{esint}{}
46 \DeclareFontShape{U}{esint}{m}{n}{
                    <-> esint10
47
                   }{}
48
49 (/fdfile)
```