The amsxtra package

American Mathematical Society Michael Downes

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This file is maintained by the LATEX Project team. Bug reports can be opened (category amsmath) at http://latex-project.org/bugs.html.

1 Introduction

The amsxtra package contains a few rarely used commands that were present in version 1.1 of the amstex package: \fracwithdelims, accentedsymbol, \sphat, \spcheck, \sptilde, \spdot, \spddot, \spddot, \spbreve. If any of these commands were used in existing documents, the amsxtra package provides a way to get them. But for 99% of documents using the amstex package these commands are just wasted overhead.

\ProvidesPackage{amsxtra}[1999/11/15 v1.2c AMS extra commands]

We need to ensure that either the amstex package or the amsmath package is loaded. This means we need something a little more complicated than \RequirePackage.

```
\def\fracwithdelims@#1#2[#3]#4#5{\relax
\ifx\@empty#3{#4\overwithdelims#1#2#5}\else
{#4\abovewithdelims#1#2#3\relax#5}\fi}
}{}
```

Perhaps \accentedsymbol should use \newsavebox, but I don't know of any compelling reason at the moment. [mjd,5-Sep-1994] \accentedsymbol can only produce a single size of the given symbol, so you'd need two different versions for main size and subscript size.

```
\def\accentedsymbol#1#2{%
  \expandafter\newbox
  \csname\expandafter\@gobble\string#1@box\endcsname
  \expandafter\setbox
  \csname\expandafter\@gobble\string#1@box\endcsname
  \hbox{$\m@th#2$}%
  \newcommand{#1}{%
  \expandafter\copy
  \csname\expandafter\@gobble\string#1@box\endcsname{}}%
}
```

Change the definition of $\tilde{\ }$ to automatically remove a preceding space as well as a following space, if present.

```
\def~{\nobreakspace}
```

\DeclareRobustCommand{\nobreakspace}{\unskip\nobreak\ \ignorespaces}

The usual \endinput to ensure that random garbage at the end of the file doesn't get copied by docstrip.

\endinput