Two pagestyles for underlining headers^{*}

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Abstract

This package implements two new pagestyles underline and myunderline that are similar to the standard headings and myheadings pagestyles but provide a horizontal line just below the head line.

The purpose of this package file is to provide a way to underline a running head. This is done by redefining the \@evenhead and \@oddhead macros. To understand this you must know that whenever a given pagestyle (say 'xxx') is selected by a \pagestyle{xxx} command the macro \ps@xxx is executed. Therefore we define a macro \ps@underline which is called when you say \pagestyle{underline}. To provide for a rule with user-defined headings we also define the pagestyle 'myunderline', i.e. the macro \ps@myunderline.

1 Implementation

 $\scriptstyle 1 \ {\rm \langle *package \rangle}$

\ps@underline

The first thing the macro \ps@underline does is to call \ps@headings to set up everything like the 'headings' pagestyle does. Here we do not need to distinguish onesided and twosided printing since this is already done correctly by \ps@headings.

2 \def\ps@underline{\ps@headings

Then we redefine \@evenhead. The first part is a copy of the definition in \ps@headings. This has the advantage that this style option works with document styles 'article', 'report', and 'book'.

 $\label{leftmark} 3 $$ \eqref{thepage}hfil\slshape\leftmark\null} $$$

\null is defined to be \hbox{} in the LATEX kernel file ltplain.dtx. Additionally we include a \vadjust primitive. The effect of this primitive is to add its argument after the current \hbox to the enclosing vertical list.

4 \vadjust{\vskip .3ex\hrule}}%

The \Coddhead macro is constructed analogously.

^{5 \}def\@oddhead{\null{\slshape \rightmark}\hfil\thepage
6 \vadjust{\vskip .3ex\hrule}}

^{*}This file has version number v1.01, last revised 1997/02/16.

<u>1</u> IMPLEMENTATION

\ps@myunderline The macro \ps@myunderline for underlining user defined running heads is constructed analogously.

- 7 \def\ps@myunderline{\ps@myheadings
- 8 \def\@oddhead{\null{\slshape\rightmark}\hfil
- 9 \rm\thepage\vadjust{\vskip .3ex\hrule}}%
- 10 \def\@evenhead{\thepage\hfil\slshape \leftmark \null
- 11 \vadjust{\vskip .3ex\hrule}}}

Well, that's all. Use it and enjoy.