

The upref package

American Mathematical Society
Michael Downes
updated by Barbara Beeton

Version 2.01, 2004/07/29

1 Introduction

This package changes the `\ref` command so that it never applies a slanted font shape to its argument, regardless of context. This was the default behavior in `amsart` version 1.1. Starting with `amsart` version 1.2, upright references must be obtained via `\usepackage{upref}`.

2 Implementation

Give package name, date, version.

```
1 \NeedsTeXFormat{LaTeX2e}[1995/06/01]
2 \ProvidesPackage{upref}[2004/07/29 v2.01]
```

`\@noref` Give a warning if a cited reference isn't defined.

```
3 \newcommand{\@noref}[1]{%
4   \G@refundefinedtrue
5   \nfss@text{\reset@font\bfseries ??}%
6   \latex@warning{Reference '#1' on page \thepage\space undefined}%
7 }
```

`\@setref` If the current fontshape is italic or slanted, we want to switch to upright/roman for printing the number of a `\ref`. This requires changing the `\@setref` command.

Since `\@setref` is modified by the `hyperref` package, delay the definition until `\AtBeginDocument`. Then check whether `hyperref` is loaded. If it is, we have to redefine some control sequences that `hyperref` defined in order to get upright references even in a `hyperref` environment. [tjk,bnb, 2004/07/29]

```
8 \AtBeginDocument{%
9   \@ifpackageloaded{hyperref}{%
```

We overload `\Hy@setref@link` as this is where the upright references get clobbered. Used in overloaded `\@setref`.

```
10  \def\Hy@setref@link#1#2#3#4#5#6\@nil#7{%
11    \begingroup
12    \toks0{\hyper@link{#5}{#4}}%
13    \toks1\@xp{#7{\textup{#1}\hbox{}}}{#2}{#3}{#4}{#5}}%
14    \edef\x{\endgroup\the\toks0\the\toks1}\x
15  }%
```

We should not have to overload `\@setref`, but there is a chance that an author is using an old version of `hyperref` which does not use `\Hy@setref@link` in `\@setref`.

```
16  \def\@setref#1#2#3{%
17    \ifx#1\relax
```

```

18     \xp\protect\@noref{#3}%
19     \else
20     \xp\Hy@setref@link#1\@empty\@empty\@nil{#2}%
21     \fi
22 }%
23 }{%
24 \def\@setref#1#2#3{\ifx#1\relax
25     \protect\@noref{#3}%
26     \else
27     \protect\textup{\@xp#2#1\hbox{}}}%
28     \fi
29 }%
30 }%
31 }

```

`\@upn` The function `\@upn` is used to force theorem numbers and similar elements to be upright in sloped or italic contexts. If a suitable italic font with upright numbers and punctuation is available, this function should be redefined to be a no-op.

```
32 \providecommand\@upn{\textup}
```

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

```
33 \endinput
```

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

	Symbols	E	P
<code>\@ifpackageloaded</code>	.. 9	<code>\endinput</code>	..... 2
<code>\@latex@warning</code>	.... 6		<code>\ProvidesPackage</code>
<code>\@noref</code>	.... 3, 18, 25	G	... 2
<code>\@setref</code>	1, 1, 1, 1, 8	<code>\G@refundefinedtrue</code>	.. 4
<code>\@upn</code>	..... 2, <u>32</u>	H	R
		<code>\hbox</code>	..... 13, 27
A		<code>\Hy@setref@link</code>	..
<code>amsart class</code>	..... 1, 1	..... 1, 1, 10, 20	T
<code>\AtBeginDocument</code>	.. 1, 8	<code>\hyper@link</code>	..... 12
		hyperref package	..
B		..... 1, 1, 1, 1	U
<code>\bfseries</code>	..... 5		<code>upref package</code>
		N	..... 1
D		<code>\NeedsTeXFormat</code>	.... 1
<code>docstrip</code>	..... 2	<code>\nfss@text</code>	..... 5
		X	
		<code>\x</code>	..... 14