

The **telprint** package

Heiko Oberdiek
<oberdiek@uni-freiburg.de>

2008/08/11 v1.10

Abstract

Package **telprint** provides `\telprint` for formatting German phone numbers.

Contents

1	Documentation	2
1.1	Introduction	2
1.2	Short overview in English	2
1.2.1	Configuration	2
1.3	Documentation in German	2
2	Implementation	3
2.1	Reload check and package identification	3
2.2	Catcodes	4
2.3	Package macros	5
3	Test	7
3.1	Catcode checks for loading	7
4	Installation	8
4.1	Download	8
4.2	Bundle installation	9
4.3	Package installation	9
4.4	Refresh file name databases	9
4.5	Some details for the interested	9
5	History	10
	[1996/11/28 v1.0]	10
	[1997/09/16 v1.1]	10
	[1997/10/16 v1.2]	10
	[1997/12/09 v1.3]	10
	[2004/11/02 v1.4]	10
	[2005/09/30 v1.5]	10
	[2006/02/12 v1.6]	10
	[2006/08/26 v1.7]	11
	[2007/04/11 v1.8]	11
	[2007/09/09 v1.9]	11
	[2008/08/11 v1.10]	11
6	Index	11

1 Documentation

1.1 Introduction

This is a very old package that I have written to format phone numbers. It follows German conventions and the documentation is mainly in German.

1.2 Short overview in English

L^AT_EX:

```
\usepackage{telprint}
\telprint{123/456-789}
```

plain-T_EX:

```
\input telprint.sty
\telprint{123/456-789}
```

\telprint **\telprint{...}** formats the explicitly given number. Digits, spaces and some special characters ('+', '/', '-', '(', ')', '~', ' ') are supported. Numbers are divided into groups of two digits from the right. Examples:

```
\telprint{0761/12345}      ==> 07\,61/1\,23\,45
\telprint{01234/567-89}    ==> 0\,12\,34/5\,67\leavevmode\hbox{-}89
\telprint{+49 (6221) 297}  ==> +49~(62\,21)~2\,97
```

1.2.1 Configuration

The output of the symbols can be configured by **\telhyphen**, **\telslash**, **\telleftparen**, **\telrightparen**, **\telplus**, **\teltilde**. Example:

```
\telslash{\,/\,}\ \telprint{12/34} ==> 12\,/\/,34
```

\telspace **\telspace** configures the space between digit groups.

\telnumber **\telnumber** only formats a number in digit groups; special characters are not recognized.

1.3 Documentation in German

\telprint • **telprint#1**
Der eigentliche Anwenderbefehl zur formatierten Ausgabe von Telefonnummern. Diese dürfen dabei nur als Zahlen angegeben werden (, da sie tokenweise analysiert werden). Als Trenn- oder Sonderzeichen werden unterstützt: '+', '/', '-', '(', ')', '~', ' '. Einfache Leerzeichen werden erkannt und durch Tilden ersetzt, um Trennungen in der Telefonnummer zu verhindern. (Man beachte aus gleichem Grunde die **\hbox** bei '-'). Beispiele:

```
\telprint{0761/12345}      ==> 07\,61/1\,23\,45
\telprint{01234/567-89}    ==> 0\,12\,34/5\,67\leavevmode\hbox{-}89
\telprint{+49 (6221) 297}  ==> +49~(62\,21)~2\,97
```

Der Rest enthält eher Technisches:

\telspace • **\telspace#1**
Mit diesem Befehl wird der Abstand zwischen den Zifferngruppen angegeben (Default: \,). (Durch **\telspace{}** kann dieser zusätzliche Abstand abgestellt werden.)

<code>\telhyphen</code>	<ul style="list-style-type: none"> • <code>\telhyphen#1</code> Dieser Befehl gibt die Art des Bindestriches, wie er ausgegeben werden soll. In der Eingabe darf jedoch nur der einfache Bindestrich stehen: <code>\telprint{123-45}</code>, jedoch NIE <code>\telprint{123--45}</code>! Kopka-Bindestrich-Fans geben an: <code>\telhyphen{\leavevmode\hbox{--}}</code>
<code>\telslash</code> <code>\telleftparen</code> <code>\telrightparen</code> <code>\telplus</code> <code>\teltilde</code> <code>\telnumber</code>	<ul style="list-style-type: none"> • <code>\telslash#1, \telleftparen#1, \telrightparen#1, \telplus#1, \teltilde</code> Diese Befehle konfigurieren die Zeichen <code>'/'</code>, <code>'('</code>, <code>')'</code>, <code>'+'</code> und <code>'~'</code>. Sie funktionieren analog zu <code>\telhyphen</code>. • <code>\telnumber#1</code> Richtung interner Befehl: Er dient dazu, eine Zifferngruppe in Zweiergruppen auszugeben. Die einzelnen Zahlen werden im Tokenregister <code>\TELtoks</code> gespeichert. Abwechselnd werden dabei zwischen zwei Token (Zahlen) <code>\TELx</code> bzw. <code>\TELy</code> eingefügt, abhängig von dem wechselnden Wert von <code>\TELswitch</code>. Zum Schluss kann dann einfach festgestellt werden ob die Nummer nun eine geradzahlige oder ungeradzahlige Zahl von Ziffern aufwies. Dem entsprechend wird <code>\TELx</code> mit dem Zusatzabstand belegt und <code>\TELy</code> leer definiert oder umgekehrt.) • <code>\TEL...</code> interne Befehle, Technisches: <code>\TELsplit</code> dient zur Aufteilung einer zusammengesetzten Telefonnummer (Vorwahl, Hauptnummer, Nebenstelle). In dieser Implementation werden als Trennzeichen nur <code>'/'</code> und <code>'-'</code> erkannt. Die einzelnen Bestandteile wie Vorwahl werden dann dem Befehl <code>\telnumber</code> zur Formatierung uebergeben. • Die Erkennung von einfachen Leerzeichen ist um einiges schwieriger: Die Tokenentrennung ueber Parameter <code>#1#2</code> funktioniert nicht für einfache Leerzeichen, da TeX sie <i>niemals</i> als eigenständige Argumente behandelt! (The TeXbook, Chapter 20, p. 201) (Anmerkung am Rande: Deshalb funktionieren die entsprechenden Tokenmakros auf S. 149 des Buches „Einführung in TeX“ von N. Schwarz (3. Aufl.) nicht, wenn im Tokenregister als erstes ein einfaches Leerzeichen steht!)

2 Implementation

```
1 (*package)
```

2.1 Reload check and package identification

Reload check, especially if the package is not used with L^AT_EX.

```

2 \begingroup
3 \catcode44 12 % ,
4 \catcode45 12 % -
5 \catcode46 12 % .
6 \catcode58 12 % :
7 \catcode64 11 % @
8 \catcode123 1 % {
9 \catcode125 2 % }
10 \expandafter\let\expandafter\x\csname ver@telprint.sty\endcsname
11 \ifx\x\relax % plain-TeX, first loading
12 \else
13 \def\empty{}%
14 \ifx\x\empty % LaTeX, first loading,
15 % variable is initialized, but \ProvidesPackage not yet seen
16 \else
17 \catcode35 6 % #
18 \expandafter\ifx\csname PackageInfo\endcsname\relax
19 \def\x#1#2{%
20 \immediate\write-1{Package #1 Info: #2.}%

```

```

21      }%
22      \else
23        \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
24      \fi
25      \x{telprint}{The package is already loaded}%
26      \aftergroup\endinput
27    \fi
28  \fi
29 \endgroup

```

Package identification:

```

30 \begingroup
31   \catcode35 6 % #
32   \catcode40 12 % (
33   \catcode41 12 % )
34   \catcode44 12 % ,
35   \catcode45 12 % -
36   \catcode46 12 % .
37   \catcode47 12 % /
38   \catcode58 12 % :
39   \catcode64 11 % @
40   \catcode91 12 % [
41   \catcode93 12 % ]
42   \catcode123 1 % {
43   \catcode125 2 % }
44   \expandafter\ifx\csname ProvidesPackage\endcsname\relax
45     \def\x#1#2#3[#4]{\endgroup
46       \immediate\write-1{Package: #3 #4}%
47       \xdef#1{#4}%
48     }%
49   \else
50     \def\x#1#2[#3]{\endgroup
51       #2[#{#3}]%
52       \ifx#1\@undefined
53         \xdef#1{#3}%
54       \fi
55       \ifx#1\relax
56         \xdef#1{#3}%
57       \fi
58     }%
59   \fi
60 \expandafter\x\csname ver@telprint.sty\endcsname
61 \ProvidesPackage{telprint}%
62 [2008/08/11 v1.10 Formatting of German phone numbers (HO)]

```

2.2 Catcodes

```

63 \begingroup
64   \catcode123 1 % {
65   \catcode125 2 % }
66   \def\x{\endgroup
67     \expandafter\edef\csname TELAtEnd\endcsname{%
68       \catcode35 \the\catcode35\relax
69       \catcode64 \the\catcode64\relax
70       \catcode123 \the\catcode123\relax
71       \catcode125 \the\catcode125\relax
72     }%
73   }%
74 \x
75 \catcode35 6 % #
76 \catcode64 11 % @
77 \catcode123 1 % {
78 \catcode125 2 % }

```

```

79 \def\TMP@EnsureCode#1#2{%
80   \edef\TELAtEnd{%
81     \TELAtEnd
82     \catcode#1 \the\catcode#1\relax
83   }%
84   \catcode#1 #2\relax
85 }
86 \TMP@EnsureCode{33}{12}% !
87 \TMP@EnsureCode{36}{3}% $
88 \TMP@EnsureCode{40}{12}% (
89 \TMP@EnsureCode{41}{12}% )
90 \TMP@EnsureCode{42}{12}% *
91 \TMP@EnsureCode{43}{12}% +
92 \TMP@EnsureCode{44}{12}% ,
93 \TMP@EnsureCode{45}{12}% -
94 \TMP@EnsureCode{46}{12}% .
95 \TMP@EnsureCode{47}{12}% /
96 \TMP@EnsureCode{61}{12}% =
97 \TMP@EnsureCode{126}{13}% ~ (active)

```

2.3 Package macros

```

98 \ifx\DeclareRobustCommand\UnDeFiNeD
99   \def\DeclareRobustCommand#1[1]{\def#1##1}%
100  \def\TELreset{\let\DeclareRobustCommand=\UnDeFiNeD}%
101  \input infwarerr.sty\relax
102  \@PackageInfo{telprint}{%
103    Macros are not robust!%
104  }%
105 \else
106   \let\TELreset=\relax
107 \fi

```

\telspace

```

108 \DeclareRobustCommand*\telspace[1]{\def\TELspace{#1}}
109 \telspace{ }$ , ${}

```

\telhyphen

```

110 \DeclareRobustCommand*\telhyphen[1]{\def\TELhyphen{#1}}
111 \telhyphen{\leavevmode\hbox{-}}% \hbox zur Verhinderung der Trennung

```

\telslash

```

112 \DeclareRobustCommand*\telslash[1]{\def\TELslash{#1}}
113 \telslash{/}%

```

\telleftparen

```

114 \DeclareRobustCommand*\telleftparen[1]{\def\TELleftparen{#1}}
115 \telleftparen{ (}%

```

\telrightparen

```

116 \DeclareRobustCommand*\telrightparen[1]{\def\TELrightparen{#1}}
117 \telrightparen{ )}%

```

\telplus

```

118 \DeclareRobustCommand*\telplus[1]{\def\TELplus{#1}}
119 \telplus{+}%

```

\teltilde

```

120 \DeclareRobustCommand*\teltilde[1]{\def\TELtilde{#1}}
121 \teltilde{~}%

```

```

\TELtoks
122 \newtoks\TELtoks

\TELnumber
123 \def\TELnumber#1#2\TELnumberEND{%
124   \begingroup
125   \def\0{#2}%
126   \expandafter\endgroup
127   \ifx\0\empty
128     \TELtoks=\expandafter{\the\TELtoks#1}%
129     \ifnum\TELswitch=0 %
130       \def\TELx{\TELspace}\def\TELy{}%
131     \else
132       \def\TELx{}\def\TELy{\TELspace}%
133     \fi
134     \the\TELtoks
135   \else
136     \ifnum\TELswitch=0 %
137       \TELtoks=\expandafter{\the\TELtoks#1\TELx}%
138       \def\TELswitch{1}%
139     \else
140       \TELtoks=\expandafter{\the\TELtoks#1\TELy}%
141       \def\TELswitch{0}%
142     \fi
143   \TELnumber#2\TELnumberEND
144 \fi
145 }

\telnumber
146 \DeclareRobustCommand*\telnumber*[1]{%
147   \TELtoks={}%
148   \def\TELswitch{0}%
149   \TELnumber#1\TELnumberEND
150 }

\TELsplit
151 \def\TELsplit{\futurelet\TELfuture\TELdosplit}

\TELdosplit
152 \def\TELdosplit#1#2\TELsplitEND
153 {%
154   \def\TELsp{ }%
155   \expandafter\ifx\TELsp\TELfuture
156     \let\TELfuture=\relax
157     \expandafter\telnumber\expandafter{\the\TELtoks}~%
158     \telprint{#1#2}% Das Leerzeichen kann nicht #1 sein!
159   \else
160     \def\TELfirst{#1}%
161     \ifx\TELfirst\empty
162       \expandafter\telnumber\expandafter{\the\TELtoks}%
163       \TELtoks={}%
164     \else\if-\TELfirst
165       \expandafter\telnumber\expandafter{\the\TELtoks}\TELhyphen
166       \telprint{#2}%
167     \else\if/\TELfirst
168       \expandafter\telnumber\expandafter{\the\TELtoks}\TELslash
169       \telprint{#2}%
170     \else\if(\TELfirst
171       \expandafter\telnumber\expandafter{\the\TELtoks}\TELleftparen
172       \telprint{#2}%
173     \else\if)\TELfirst

```

```

174     \expandafter\telnumber\expandafter{\the\TELtoks}\TELrightparen
175     \telprint{#2}%
176   \else\if+\TELfirst
177     \expandafter\telnumber\expandafter{\the\TELtoks}\TELplus
178     \telprint{#2}%
179   \else\def\TELtemp{~}\ifx\TELtemp\TELfirst
180     \expandafter\telnumber\expandafter{\the\TELtoks}\TELtilde
181     \telprint{#2}%
182   \else
183     \TELtoks=\expandafter{\the\TELtoks#1}%
184     \TELsplit#2{}\TELsplitEND
185     \fi\fi\fi\fi\fi\fi\fi
186   \fi
187 }

```

\telprint

```

188 \DeclareRobustCommand*{\telprint}[1]{%
189   \TELtoks={}%
190   \TELsplit#1{}\TELsplitEND
191 }

192 \TELreset\let\TELreset=\UnDeFiNeD
193 \TELAtEnd
194 </package>

```

3 Test

3.1 Catcode checks for loading

```

195 <*test1>

196 \catcode'\{=1 %
197 \catcode'\}=2 %
198 \catcode'\#=6 %
199 \catcode'\@=11 %
200 \expandafter\ifx\csname count@\endcsname\relax
201   \countdef\count@=255 %
202 \fi
203 \expandafter\ifx\csname @gobble\endcsname\relax
204   \long\def\@gobble#1{}%
205 \fi
206 \expandafter\ifx\csname @firstofone\endcsname\relax
207   \long\def\@firstofone#1{#1}%
208 \fi
209 \expandafter\ifx\csname loop\endcsname\relax
210   \expandafter\@firstofone
211 \else
212   \expandafter\@gobble
213 \fi
214 {%
215   \def\loop#1\repeat{%
216     \def\body{#1}%
217     \iterate
218   }%
219   \def\iterate{%
220     \body
221     \let\next\iterate
222   \else
223     \let\next\relax
224   \fi
225   \next
226 }%

```

```

227 \let\repeat=\fi
228 }%
229 \def\RestoreCatcodes{}
230 \count@=0 %
231 \loop
232 \edef\RestoreCatcodes{%
233 \RestoreCatcodes
234 \catcode\the\count@=\the\catcode\count@\relax
235 }%
236 \ifnum\count@<255 %
237 \advance\count@ 1 %
238 \repeat
239
240 \def\RangeCatcodeInvalid#1#2{%
241 \count@=#1\relax
242 \loop
243 \catcode\count@=15 %
244 \ifnum\count@<#2\relax
245 \advance\count@ 1 %
246 \repeat
247 }
248 \expandafter\ifx\csname LoadCommand\endcsname\relax
249 \def\LoadCommand{\input telprint.sty\relax}%
250 \fi
251 \def\Test{%
252 \RangeCatcodeInvalid{0}{47}%
253 \RangeCatcodeInvalid{58}{64}%
254 \RangeCatcodeInvalid{91}{96}%
255 \RangeCatcodeInvalid{123}{255}%
256 \catcode'\@=12 %
257 \catcode'\=0 %
258 \catcode'\{=1 %
259 \catcode'\}=2 %
260 \catcode'\#=6 %
261 \catcode'\[=12 %
262 \catcode'\]=12 %
263 \catcode'\%=14 %
264 \catcode'\ =10 %
265 \catcode13=5 %
266 \LoadCommand
267 \RestoreCatcodes
268 }
269 \Test
270 \csname @@end\endcsname
271 \end
272 </test1>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/telprint.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/telprint.pdf](#) Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

¹[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

`CTAN:install/macros/latex/contrib/oberdiek.tds.zip`

TDS refers to the standard “A Directory Structure for T_EX Files” (`CTAN:tds/tds.pdf`). Directories with `texmf` in their name are usually organized this way.

4.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

4.3 Package installation

Unpacking. The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain-T_EX:

```
tex telprint.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

<code>telprint.sty</code>	→ <code>tex/generic/oberdiek/telprint.sty</code>
<code>telprint.pdf</code>	→ <code>doc/latex/oberdiek/telprint.pdf</code>
<code>test/telprint-test1.tex</code>	→ <code>doc/latex/oberdiek/test/telprint-test1.tex</code>
<code>telprint.dtx</code>	→ <code>source/latex/oberdiek/telprint.dtx</code>

If you have a `docstrip.cfg` that configures and enables `docstrip`’s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

4.4 Refresh file name databases

If your T_EX distribution (teT_EX, mikT_EX, ...) relies on file name databases, you must refresh these. For example, teT_EX users run `texhash` or `mktextlsr`.

4.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk telprint.pdf unpack_files output .
```

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain-T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{telprint.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfL^AT_EX:

```
pdflatex telprint.dtx
makeindex -s gind.ist telprint.idx
pdflatex telprint.dtx
makeindex -s gind.ist telprint.idx
pdflatex telprint.dtx
```

5 History

[1996/11/28 v1.0]

- Erste lauffähige Version.
- Nur `'-'` und `'/'` als zulässige Sonderzeichen.

[1997/09/16 v1.1]

- Dokumentation und Kommentare (Posting in `de.comp.text.tex`).
- Erweiterung um Sonderzeichen `'(, ')`, `'+'`, `'~'` und `' '`.
- Trennungsverhinderung am `'hyphen'`.

[1997/10/16 v1.2]

- Schutz vor wiederholtem Einlesen.
- Unter L^AT_EX 2_ε Nutzung des `\DeclareRobustCommand`-Features.

[1997/12/09 v1.3]

- Temporäre Variable eingespart.
- Posted in newsgroup `de.comp.text.tex`:
“**Re: Generisches Markup für Telefonnummern?**”²

[2004/11/02 v1.4]

- Fehler in der Dokumentation korrigiert.

[2005/09/30 v1.5]

- Konfigurierbare Symbole: `'/'`, `'(, ')`, `'+'` und `'~'`.

[2006/02/12 v1.6]

- LPPL 1.3.
- Kurze Übersicht in Englisch.
- CTAN.

²Url: <http://groups.google.com/group/de.comp.text.tex/msg/86b3a86140007309>

[2006/08/26 v1.7]

- New DTX framework.

[2007/04/11 v1.8]

- Line ends sanitized.

[2007/09/09 v1.9]

- Catcode section added.
- Missing docstrip tag added.

[2008/08/11 v1.10]

- Code is not changed.
- URLs updated.

6 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			
<code>\#</code>	198, 260	<code>\count@</code>	201, 230, 234, 236, 237, 241, 243, 244, 245
<code>\%</code>	263	<code>\countdef</code>	201
<code>\,</code>	109	<code>\csname</code>	10, 18, 44, 60, 67, 200, 203, 206, 209, 248, 270
<code>\@</code>	199, 256	D	
<code>\@PackageInfo</code>	102	<code>\DeclareRobustCommand</code>	98, 99, 100, 108, 110, 112, 114, 116, 118, 120, 146, 188
<code>\@firstofone</code>	207, 210	E	
<code>\@gobble</code>	204, 212	<code>\empty</code>	13, 14, 127, 161
<code>\@undefined</code>	52	<code>\end</code>	271
<code>\[</code>	261	<code>\endcsname</code>	10, 18, 44, 60, 67, 200, 203, 206, 209, 248, 270
<code>\]</code>	257	<code>\endinput</code>	26
<code>\{</code>	196, 258	F	
<code>\}</code>	197, 259	<code>\futurelet</code>	151
<code>\]</code>	262	H	
Numbers		<code>\hbox</code>	111
<code>\0</code>	125, 127	I	
<code>_</code>	264	<code>\if</code>	164, 167, 170, 173, 176
A		<code>\ifnum</code>	129, 136, 236, 244
<code>\advance</code>	237, 245	<code>\ifx</code>	11, 14, 18, 44, 52, 55, 98, 127, 155, 161, 179, 200, 203, 206, 209, 248
<code>\aftergroup</code>	26	<code>\immediate</code>	20, 46
B		<code>\input</code>	101, 249
<code>\body</code>	216, 220	<code>\iterate</code>	217, 219, 221
C		L	
<code>\catcode</code>	3, 4, 5, 6, 7, 8, 9, 17, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 64, 65, 68, 69, 70, 71, 75, 76, 77, 78, 82, 84, 196, 197, 198, 199, 234, 243, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265	<code>\leavevmode</code>	111

\LoadCommand	249, 266	\TELreset	100, 106, 192
\loop	215, 231, 242	\TELrightparen	116, 174
N			
\newtoks	122	\telrightparen	3, 116
\next	221, 223, 225	\TELslash	112, 168
P			
\PackageInfo	23	\telslash	3, 112
\ProvidesPackage	15, 61	\TELsp	154, 155
R			
\RangeCatcodeInvalid		\TELspace	108, 130, 132
	240, 252, 253, 254, 255	\telspace	2, 2, 108
\repeat	215, 227, 238, 246	\TELsplit	151, 184, 190
\RestoreCatcodes	229, 232, 233, 267	\TELsplitEND	152, 184, 190
T			
\TELatEnd	80, 81, 193	\TELswitch	129, 136, 138, 141, 148
\TELdosplit	151, 152	\TELtemp	179
\TELfirst	160,	\TELtilde	120, 180
	161, 164, 167, 170, 173, 176, 179	\teltilde	3, 120
\TELfuture	151, 155, 156	\TELToks	122, 128, 134, 137,
\TELhyphen	110, 165		140, 147, 157, 162, 163, 165,
\telhyphen	3, 110		168, 171, 174, 177, 180, 183, 189
\TELleftparen	114, 171	\TELx	130, 132, 137
\telleftparen	3, 114	\TELy	130, 132, 140
\TELnumber	123, 149	\Test	251, 269
\telnumber	2, 3, 146, 157,	\the	68, 69, 70, 71, 82, 128,
	162, 165, 168, 171, 174, 177, 180		134, 137, 140, 157, 162, 165,
\TELnumberEND	123, 143, 149		168, 171, 174, 177, 180, 183, 234
\TELplus	118, 177	\TMP@EnsureCode	79, 86, 87,
\telplus	3, 118		88, 89, 90, 91, 92, 93, 94, 95, 96, 97
\telprint	2, 2, 158,	U	
	166, 169, 172, 175, 178, 181, 188	\UnDeFiNeD	98, 100, 192
W			
		\write	20, 46
X			
\x	10, 11, 14, 19, 23, 25, 45, 50, 60, 66, 74		