The catchfile package

Heiko Oberdiek*
<heiko.oberdiek at googlemail.com>

2016/05/16 v1.7

Abstract

This package catches the contents of a file and puts it in a macro. It requires ε-TEX. Both LATEX and plain TEX are supported.

Contents

1 Documentation **2**

2 Implementation **2**
2.1 Reload check and package identification . . . 2
2.2 Catcodes . . . 3
2.3 Preparations . . . 4
2.4 Looking for primitive \input . . . 4
2.5 Input file check . . . 5
2.6 Catch file contents . . . 6

3 Test **7**
3.1 Catcode checks for loading . . . 7
3.2 LATEX . . . 9
3.3 plain TEX . . . 10

4 Installation **12**
4.1 Download . . . 12
4.2 Bundle installation . . . 12
4.3 Package installation . . . 12
4.4 Refresh file name databases . . . 12
4.5 Some details for the interested . . . 13

5 Catalogue **13**

6 History **14**
[2007/05/30 v1.0] . . . 14
[2007/09/09 v1.1] . . . 14
[2007/11/11 v1.2] . . . 14
[2010/03/01 v1.3] . . . 14
[2010/04/08 v1.4] . . . 14
[2010/04/28 v1.5] . . . 14
[2011/03/01 v1.6] . . . 14
[2016/05/16 v1.7] . . . 14

7 Index **14**

*Please report any issues at https://github.com/ho-tex/oberdiek/issues

1 Documentation

The package relies on ε-TeX's `\everyeof`. Otherwise it aborts with an error message.

`\CatchFileDef {`⟨*cmd*⟩`} {`⟨*file name*⟩`} {`⟨*setup*⟩`}`
`\CatchFileEdef {`⟨*cmd*⟩`} {`⟨*file name*⟩`} {`⟨*setup*⟩`}`

Macro ⟨*cmd*⟩ is defined with the contents of file ⟨*file name*⟩. `\CatchFileDef` uses `\def`, `\CatchFileEdef` `\edef` for the definition. Additional setup code for setting catcodes or treatment of line ends can be given in code ⟨*setup*⟩. See the test files for an example.

2 Implementation

```
1 ⟨*package⟩
```

2.1 Reload check and package identification

Reload check, especially if the package is not used with LaTeX.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
3   \catcode13=5 % ^^M
4   \endlinechar=13 %
5   \catcode35=6 % #
6   \catcode39=12 % '
7   \catcode44=12 % ,
8   \catcode45=12 % -
9   \catcode46=12 % .
10  \catcode58=12 % :
11  \catcode64=11 % @
12  \catcode123=1 % {
13  \catcode125=2 % }
14  \expandafter\let\expandafter\x\csname ver@catchfile.sty\endcsname
15  \ifx\x\relax % plain-TeX, first loading
16  \else
17    \def\empty{}%
18    \ifx\x\empty % LaTeX, first loading,
19      % variable is initialized, but \ProvidesPackage not yet seen
20    \else
21      \expandafter\ifx\csname PackageInfo\endcsname\relax
22        \def\x#1#2{%
23          \immediate\write-1{Package #1 Info: #2.}%
24        }%
25      \else
26        \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
27      \fi
28      \x{catchfile}{The package is already loaded}%
29      \aftergroup\endinput
30    \fi
31  \fi
32 \endgroup%
```

Package identification:

```
33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34   \catcode13=5 % ^^M
35   \endlinechar=13 %
36   \catcode35=6 % #
37   \catcode39=12 % '
38   \catcode40=12 % (
39   \catcode41=12 % )
40   \catcode44=12 % ,
```

```
\catcode45=12 % -
\catcode46=12 % .
\catcode47=12 % /
\catcode58=12 % :
\catcode64=11 % @
\catcode91=12 % [
\catcode93=12 % ]
\catcode123=1 % {
\catcode125=2 % }
\expandafter\ifx\csname ProvidesPackage\endcsname\relax
  \def\x#1#2#3[#4]{\endgroup
    \immediate\write-1{Package: #3 #4}%
    \xdef#1{#4}%
  }%
\else
  \def\x#1#2[#3]{\endgroup
    #2[{#3}]%
    \ifx#1\@undefined
      \xdef#1{#3}%
    \fi
    \ifx#1\relax
      \xdef#1{#3}%
    \fi
  }%
\fi
\expandafter\x\csname ver@catchfile.sty\endcsname
\ProvidesPackage{catchfile}%
  [2016/05/16 v1.7 Catch the contents of a file (HO)]%
```

2.2 Catcodes

```
\begingroup\catcode61\catcode48\catcode32=10\relax%
  \catcode13=5 % ^^M
  \endlinechar=13 %
  \catcode123=1 % {
  \catcode125=2 % }
  \catcode64=11 % @
  \def\x{\endgroup
    \expandafter\edef\csname CatchFile@AtEnd\endcsname{%
      \endlinechar=\the\endlinechar\relax
      \catcode13=\the\catcode13\relax
      \catcode32=\the\catcode32\relax
      \catcode35=\the\catcode35\relax
      \catcode61=\the\catcode61\relax
      \catcode64=\the\catcode64\relax
      \catcode123=\the\catcode123\relax
      \catcode125=\the\catcode125\relax
    }%
  }%
\x\catcode61\catcode48\catcode32=10\relax%
\catcode13=5 % ^^M
\endlinechar=13 %
\catcode35=6 % #
\catcode64=11 % @
\catcode123=1 % {
\catcode125=2 % }
\def\TMP@EnsureCode#1#2{%
  \edef\CatchFile@AtEnd{%
    \CatchFile@AtEnd
    \catcode#1=\the\catcode#1\relax
  }%
  \catcode#1=#2\relax
```

```
}
\TMP@EnsureCode{39}{12}% '
\TMP@EnsureCode{44}{12}% ,
\TMP@EnsureCode{45}{12}% -
\TMP@EnsureCode{46}{12}% .
\TMP@EnsureCode{47}{12}% /
\TMP@EnsureCode{91}{12}% [
\TMP@EnsureCode{93}{12}% ]
\TMP@EnsureCode{96}{12}% `
\edef\CatchFile@AtEnd{\CatchFile@AtEnd\noexpand\endinput}
```

2.3 Preparations

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname RequirePackage\endcsname\relax
  \input infwarerr.sty\relax
  \input ltxcmds.sty\relax
\else
  \RequirePackage{infwarerr}[2007/09/09]%
  \RequirePackage{ltxcmds}[2010/03/09]%
\fi
```

Check for ε-TEX's `\everyeof`.

```
\begingroup
  \escapechar=92\relax
  \edef\TestString{\string\everyeof}%
  \edef\TestMeaning{\meaning\everyeof}%
  \ifx\TestString\TestMeaning
  \else
    \@PackageError{catchfile}{%
      Cannot find e-TeX's \string\everyeof,\MessageBreak
      package loading is aborted%
    }\@ehd
    \endgroup
    \expandafter\CatchFile@AtEnd
  \fi%
\endgroup
```

2.4 Looking for primitive \input

`\CatchFile@Input` The package needs the expandable primitive `\input`. However there are formats that redefine it. For example, LaTeX's `\input` is not expandable, but it stores the primitive in `\@@input`. The third possibility is `\pdfprimitive`, introduced in pdfTEX 1.40.0.

Thus we try to find the primitive and store it in `\CatchFile@Input`. If it is used, it must be expanded twice (because of the solution with `\pdfprimitive`).

```
\begingroup
  \def\Check#1#2#3#4\endgroup{%
    \edef\TestString{\string#1}%
    \edef\TestMeaning{\meaning#2}%
    \ifx\TestString\TestMeaning
      \endgroup
      \let\CatchFile@Primitive#2%
      \def\CatchFile@Input{\CatchFile@Primitive#3}%
    \else
      #4\endgroup
    \fi
  }%
  \Check\input\input{}%
  \Check\input\@@input{}%
  \Check\pdfprimitive\pdfprimitive\input
  \@PackageError{%
    Cannot find primitive \string\input,\MessageBreak
    package loading is aborted%
```

```
  }\@ehd
  \csname endgroup\endcsname
  \CatchFile@AtEnd%
\endgroup
```

2.5 Input file check

\CatchFile@CheckFileExists

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname IfFileExists\endcsname\relax
  \input pdftexcmds.sty\relax
  \begingroup\expandafter\expandafter\expandafter\endgroup
  \expandafter\ifx\csname pdf@filesize\endcsname\relax
    \def\CatchFile@CheckFileExists#1{%
      \expandafter\ifx\csname @inputcheck\endcsname\relax
        \csname newread\endcsname\@inputcheck
      \fi
      \openin\@inputcheck#1\relax
      \expandafter\closein\expandafter\@inputcheck
      \ifeof\@inputcheck
        \let\CatchFile@File\relax
      \else
        \def\CatchFile@File{#1}%
      \fi
    }%
  \else
    \def\CatchFile@CheckFileExists#1{%
      \expandafter\expandafter\expandafter\ifx
      \expandafter\expandafter\expandafter\relax\pdf@filesize{#1}\relax
        \let\CatchFile@File\relax
      \else
        \def\CatchFile@File{#1}%
      \fi
    }%
  \fi
\else
  \def\CatchFile@CheckFileExists#1{%
    \IfFileExists{#1}{%
      \expandafter\CatchFile@DefFile\@filef@und\@nil
      \begingroup\expandafter\expandafter\expandafter\endgroup
      \expandafter\ifx\csname @addtofilelist\endcsname\relax
      \else
        \@addtofilelist\CatchFile@File
      \fi
    }{%
      \let\CatchFile@File\relax
    }%
  }%
  \def\CatchFile@DefFile#1 \@nil{%
    \def\CatchFile@File{#1}%
  }%
\fi
```

\CatchFile@NotFound

```
\def\CatchFile@NotFound#1#2{%
  \def#1{}%
  \@PackageError{catchfile}{%
    File `#2' not found%
  }\@ehc
}
```

2.6 Catch file contents

```
\ltx@IfUndefined{RequirePackage}{%
  \input etexcmds.sty\relax
}{%
  \RequirePackage{etexcmds}[2010/01/28]%
}
```

\CatchFileEdef

```
\long\def\CatchFileEdef#1#2#3{%
  \CatchFile@CheckFileExists{#2}%
  \ifx\CatchFile@File\relax
    \CatchFile@NotFound{#1}{#2}%
  \else
    \begingroup
      \everyeof{\noexpand}%
      #3%
      \xdef\CatchFile@Contents{\CatchFile@Input\CatchFile@File\space}%
    \endgroup
    \let#1\CatchFile@Contents
  \fi
}
```

\CatchFileDef

```
\long\def\CatchFileDef#1#2#3{%
  \CatchFile@CheckFileExists{#2}%
  \ifx\CatchFile@File\relax
    \CatchFile@NotFound{#1}{#2}%
  \else
    \begingroup
      \everyeof\expandafter{%
        \CatchFile@EOF
        \expandafter\CatchFile@Finish
        \noexpand
      }%
      \ltx@ifundefined{etex@unexpanded}{%
        \expandafter\long\expandafter\def\expandafter\CatchFile@Do
            \expandafter##\expandafter1\CatchFile@EOF{%
          \toks\ltx@zero{##1}%
          \xdef\CatchFile@gtemp{\the\toks\ltx@zero}%
          \def\CatchFile@Finish{%
            \endgroup
            \let#1\CatchFile@gtemp
            \global\let\CatchFile@gtemp\ltx@undefined
          }%
        }%
      }{%
        \expandafter\long\expandafter\def\expandafter\CatchFile@Do
            \expandafter##\expandafter1\CatchFile@EOF{%
          \edef\CatchFile@Finish{%
            \endgroup
            \etex@unexpanded{%
              \edef#1{\etex@unexpanded{##1}}%
            }%
          }%
        }%
      }%
      #3\relax
    \expandafter\expandafter\expandafter\CatchFile@Do
    \CatchFile@Input\CatchFile@File\relax
  \fi
}
```

\relax after #3 was added to make it more robust in case the user uses something like

```
\CatchFileDef{\content}{\jobname.tt}{\endlinechar=-1}
```

that expands the following \expandafter after #3 prematurely (contribution of Martin Scharrer).

\CatchFile@EOF If the file is read the catcode mappings are fixed. This means that the same character cannot occur inside the file with different catcodes. Thus we use as end of file marker the at sign twice with different catcodes.

```
\begingroup
  \lccode65=64 % lowercase('A') = '@'
  \lccode66=64 % lowercase('B') = '@'
  \catcode65=8 % catcode('A') = subscript
  \catcode66=3 % catcode('B') = math shift
\lowercase{\endgroup
  \def\CatchFile@EOF{AB}%
}

\CatchFile@AtEnd%
⟨/package⟩
```

3 Test

3.1 Catcode checks for loading

```
⟨*test1⟩

\catcode`\{=1 %
\catcode`\}=2 %
\catcode`\#=6 %
\catcode`\@=11 %
\expandafter\ifx\csname count@\endcsname\relax
  \countdef\count@=255 %
\fi
\expandafter\ifx\csname @gobble\endcsname\relax
  \long\def\@gobble#1{}%
\fi
\expandafter\ifx\csname @firstofone\endcsname\relax
  \long\def\@firstofone#1{#1}%
\fi
\expandafter\ifx\csname loop\endcsname\relax
  \expandafter\@firstofone
\else
  \expandafter\@gobble
\fi
{%
  \def\loop#1\repeat{%
    \def\body{#1}%
    \iterate
  }%
  \def\iterate{%
    \body
      \let\next\iterate
    \else
      \let\next\relax
    \fi
    \next
  }%
  \let\repeat=\fi
}%
\def\RestoreCatcodes{}
```

```
\count@=0 %
\loop
  \edef\RestoreCatcodes{%
    \RestoreCatcodes
    \catcode\the\count@=\the\catcode\count@\relax
  }%
\ifnum\count@<255 %
  \advance\count@ 1 %
\repeat

\def\RangeCatcodeInvalid#1#2{%
  \count@=#1\relax
  \loop
    \catcode\count@=15 %
  \ifnum\count@<#2\relax
    \advance\count@ 1 %
  \repeat
}
\def\RangeCatcodeCheck#1#2#3{%
  \count@=#1\relax
  \loop
    \ifnum#3=\catcode\count@
    \else
      \errmessage{%
        Character \the\count@\space
        with wrong catcode \the\catcode\count@\space
        instead of \number#3%
      }%
    \fi
  \ifnum\count@<#2\relax
    \advance\count@ 1 %
  \repeat
}
\def\space{ }
\expandafter\ifx\csname LoadCommand\endcsname\relax
  \def\LoadCommand{\input catchfile.sty\relax}%
\fi
\def\Test{%
  \RangeCatcodeInvalid{0}{47}%
  \RangeCatcodeInvalid{58}{64}%
  \RangeCatcodeInvalid{91}{96}%
  \RangeCatcodeInvalid{123}{255}%
  \catcode`\@=12 %
  \catcode`\\=0 %
  \catcode`\%=14 %
  \LoadCommand
  \RangeCatcodeCheck{0}{36}{15}%
  \RangeCatcodeCheck{37}{37}{14}%
  \RangeCatcodeCheck{38}{47}{15}%
  \RangeCatcodeCheck{48}{57}{12}%
  \RangeCatcodeCheck{58}{63}{15}%
  \RangeCatcodeCheck{64}{64}{12}%
  \RangeCatcodeCheck{65}{90}{11}%
  \RangeCatcodeCheck{91}{91}{15}%
  \RangeCatcodeCheck{92}{92}{0}%
  \RangeCatcodeCheck{93}{96}{15}%
  \RangeCatcodeCheck{97}{122}{11}%
  \RangeCatcodeCheck{123}{255}{15}%
  \RestoreCatcodes
}
\Test
\csname @@end\endcsname
```

```
\end
⟨/test1⟩
```

3.2 LaTeX

```
⟨*test2⟩
\NeedsTeXFormat{LaTeX2e}
\nofiles
\listfiles
\tracingnesting=2 %
\documentclass{minimal}
\usepackage{catchfile}[2016/05/16]
\makeatletter
\def\mysetup{%
  \let\do\@makeother
  \dospecials
}
\def\CheckContents{%
  \begingroup
    \expandafter\ifx\csname contents\endcsname\relax
      \PackageError{TEST}{\string\contents\space is not defined}\@ehc
    \fi
  \endgroup
}
\def\StartDisableUnexpanded{%
  \begingroup
    \let\etex@unexpanded\@undefined
}
\def\StopDisableUnexpanded{%
  \endgroup
}
\def\CheckCleanup{%
  \begingroup
    \edef\x{\the\toks0}%
    \def\y{ABC}%
    \ifx\x\y
    \else
      \PackageError{TEST}{\string\toks0 has changed}\@ehc
    \fi
    \ifx\CatchFile@gtemp\@undefined
    \else
      \PackageError{TEST}{Left over \string\CatchFile@gtemp}\@ehc
    \fi
  \endgroup
}
\def\Check{%
  \CheckContents
  \CheckCleanup
}
\makeatother
\begin{document}
\toks0{ABC}

\CatchFileDef\contents{catchfile.sty}\mysetup
\typeout{\meaning\contents}
\Check
\typeout{**********************************************************}%
\CatchFileDef\contents{catchfile.sty}{}
\typeout{\meaning\contents}
\Check
\typeout{**********************************************************}%

\StartDisableUnexpanded
```

```
\CatchFileDef\contents{catchfile.sty}\mysetup
\typeout{\meaning\contents}
\Check
\typeout{************************************************************}%
\CatchFileDef\contents{catchfile.sty}{}
\typeout{\meaning\contents}
\Check
\typeout{************************************************************}%
\StopDisableUnexpanded

\CatchFileEdef\contents{catchfile.sty}{%
  \mysetup
  \def\par{^^J}%
  \obeylines
}
\typeout{\contents}
\Check
\typeout{************************************************************}%
\CatchFileEdef\contents{catchfile.sty}{%
  \catcode`\\=12 %
  \catcode`\#=12 %
  \def\par{^^J}%
  \obeylines
}
\typeout{\contents}
\Check
\typeout{************************************************************}%
\end{document}
⟨/test2⟩
```

3.3 plain TEX

```
⟨*test3⟩
\def\msg#{\immediate\write16}
\newlinechar=10 %
\tracingnesting=2 %
\input catchfile.sty\relax

\def\mysetup{%
  \def\do##1{%
    \catcode`##1=12\relax
  }%
  \dospecials
}
\def\CheckContents{%
  \begingroup
    \expandafter\ifx\csname contents\endcsname\relax
      \def\space{ }%
      \errmessage{\string\contents\space is not defined.}%
    \fi
  \endgroup
}
\catcode`\@=11 %
\def\CheckCleanup{%
  \begingroup
    \edef\x{\the\toks0}%
    \def\y{ABC}%
    \ifx\x\y
    \else
      \errmessage{\string\toks0 has changed}%
    \fi
    \ifx\CatchFile@gtemp\@undefined
    \else
```

```
      \errmessage{Left over \string\CatchFile@gtemp}%
    \fi
  \endgroup
}
\def\Check{%
  \CheckContents
  \CheckCleanup
}
\def\StartDisableUnexpanded{%
  \begingroup
    \let\etex@unexpanded\@undefined
}
\def\StopDisableUnexpanded{%
  \endgroup
}
\catcode`\@=12 %

\toks0{ABC}

\CatchFileDef\contents{catchfile.sty}\mysetup
\msg{\meaning\contents}
\Check
\msg{************************************************************}%
\CatchFileDef\contents{catchfile.sty}{}
\msg{\meaning\contents}
\Check
\msg{************************************************************}%

\StartDisableUnexpanded
\CatchFileDef\contents{catchfile.sty}\mysetup
\msg{\meaning\contents}
\Check
\msg{************************************************************}%
\CatchFileDef\contents{catchfile.sty}{}
\msg{\meaning\contents}
\Check
\msg{************************************************************}%
\StopDisableUnexpanded

\CatchFileEdef\contents{catchfile.sty}{%
  \mysetup
  \def\par{^^J}%
  \obeylines
}
\msg{\contents}
\Check
\msg{************************************************************}%
\CatchFileEdef\contents{catchfile.sty}{%
  \catcode`\\=12 %
  \catcode`\#=12 %
  \def\par{^^J}%
  \obeylines
}
\msg{\contents}
\Check
\msg{************************************************************}%

\csname @@end\endcsname
\end
⟨/test3⟩
```

4 Installation

4.1 Download

Package. This package is available on CTAN[1]:

CTAN:macros/latex/contrib/oberdiek/catchfile.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/catchfile.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.

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

TDS refers to the standard "A Directory Structure for TEX 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 TEX:

```
tex catchfile.dtx
```

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

```
catchfile.sty             → tex/generic/oberdiek/catchfile.sty
catchfile.pdf             → doc/latex/oberdiek/catchfile.pdf
test/catchfile-test1.tex → doc/latex/oberdiek/test/catchfile-test1.tex
test/catchfile-test2.tex → doc/latex/oberdiek/test/catchfile-test2.tex
test/catchfile-test3.tex → doc/latex/oberdiek/test/catchfile-test3.tex
catchfile.dtx             → source/latex/oberdiek/catchfile.dtx
```

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 TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run `texhash` or `mktexlsr`.

[1] http://ctan.org/pkg/catchfile

4.5 Some details for the interested

Unpacking with LaTeX. The .dtx chooses its action depending on the format:

plain TeX: Run docstrip and extract the files.

LaTeX: Generate the documentation.

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

```
latex \let\install=y\input{catchfile.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 pdfLaTeX:

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

5 Catalogue

The following XML file can be used as source for the TeX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is catchfile.xml.

```
⟨*catalogue⟩
<?xml version='1.0' encoding='us-ascii'?>
<!DOCTYPE entry SYSTEM 'catalogue.dtd'>
<entry datestamp='$Date$' modifier='$Author$' id='catchfile'>
  <name>catchfile</name>
  <caption>Catch an external file into a macro.</caption>
  <authorref id='auth:oberdiek'/>
  <copyright owner='Heiko Oberdiek' year='2007,2010,2011'/>
  <license type='lppl1.3'/>
  <version number='1.7'/>
  <description>
    This package catches the contents of a file and puts it in a macro.
    It requires <xref refid='etex'>e-TeX</xref>. Both
    <xref refid='latex'>LaTeX</xref> and
    <xref refid='plain'>plain TeX</xref> are supported.
    <p/>
    The package is part of the <xref refid='oberdiek'>oberdiek</xref>
    bundle.
  </description>
  <documentation details='Package documentation'
      href='ctan:/macros/latex/contrib/oberdiek/catchfile.pdf'/>
  <ctan file='true' path='/macros/latex/contrib/oberdiek/catchfile.dtx'/>
  <miktex location='oberdiek'/>
  <texlive location='oberdiek'/>
  <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
</entry>
⟨/catalogue⟩
```

6 History

[2007/05/30 v1.0]

- First version.

[2007/09/09 v1.1]

- Catcode section rewritten.

[2007/11/11 v1.2]

- Use of package pdftexcmds for LuaTeX support.

[2010/03/01 v1.3]

- Fix for unknown \@PackageErrorNoLine.

[2010/04/08 v1.4]

- \closein also added if \ifeof is true.

[2010/04/28 v1.5]

- \CatchFileDef: Getting rid of warning 'end of semi simple group entered at line ... of a different file (Florent Chervet).
- \CatchFileDef: Fix for error 'Illegal parameter number in definition of ...' (HO) including improvement that uses \unexpanded if available (Florent Chervet).

[2011/03/01 v1.6]

- \relax added after the setup argument of \CatchFileDef to prevent premature file reading (Martin Scharrer).

[2016/05/16 v1.7]

- Documentation updates.

7 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; plain numbers refer to the code lines where the entry is used.

Symbols

\# 273, 447, 536
\% 349
\@ 274, 347, 476, 502
\@@input 145
\@PackageError 124, 147, 200
\@addtofilelist 188
\@ehc 202, 384, 401, 405
\@ehd 127, 150
\@filef@und 184
\@firstofone 282, 285
\@gobble 279, 287
\@inputcheck 161, 163, 164, 165
\@makeother 378
\@nil 184, 194
\@undefined 58, 390, 403, 485, 497
\\ 348, 446, 535
\{ 271
\} 272

A

\advance 312, 320, 335
\aftergroup 29

B

\begin 414
\body 291, 295

C

\CatchFile@AtEnd 95, 96, 109, 129, 152, 268
\CatchFile@CheckFileExists 154, 210, 223
\CatchFile@Contents 217, 219
\CatchFile@DefFile 184, 194
\CatchFile@Do 234, 245, 256
\CatchFile@EOF . . . 229, 235, 246, 260
\CatchFile@File . 166, 168, 175, 177, 188, 191, 195, 211, 217, 224, 257
\CatchFile@Finish 230, 238, 247
\CatchFile@gtemp 237, 240, 241, 403, 405, 485, 487
\CatchFile@Input 132, 217, 257
\CatchFile@NotFound . . . 198, 212, 225
\CatchFile@Primitive 138, 139
\CatchFileDef 2, 222, 417, 421, 427, 431, 506, 510, 516, 520
\CatchFileEdef . 209, 437, 445, 526, 534
\catcode 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 69, 70, 72, 73, 74, 78, 79, 80, 81, 82, 83, 84, 87, 88, 90, 91, 92, 93, 97, 99, 263, 264, 271, 272, 273, 274, 309, 318, 326, 330, 347, 348, 349, 446, 447, 464, 476, 502, 535, 536
\Check 133, 144, 145, 146, 409, 419, 423, 429, 433, 443, 452, 491, 508, 512, 518, 522, 532, 541
\CheckCleanup 395, 411, 477, 493
\CheckContents 381, 410, 468, 492
\closein 164
\contents 384, 417, 418, 421, 422, 427, 428, 431, 432, 437, 442, 445, 451, 472, 506, 507, 510, 511, 516, 517, 520, 521, 526, 531, 534, 540
\count@ 276, 305, 309, 311, 312, 316, 318, 319, 320, 324, 326, 329, 330, 334, 335
\countdef 276
\csname 14, 21, 50, 66, 76, 111, 151, 155, 158, 160, 161, 186, 275, 278, 281, 284, 339, 366, 383, 470, 544

D

\do 378, 463
\documentclass 374
\dospecials 379, 466

E

\empty 17, 18
\end 367, 454, 545
\endcsname 14, 21, 50, 66, 76, 111, 151, 155, 158, 160, 161, 186, 275, 278, 281, 284, 339, 366, 383, 470, 544
\endinput 29, 109
\endlinechar 4, 35, 71, 77, 89
\errmessage 328, 472, 483, 487
\escapechar 119
\etex@unexpanded . . 249, 250, 390, 497
\everyeof 120, 121, 125, 215, 228

I

\ifeof 165
\IfFileExists 183
\ifnum 311, 319, 326, 334
\ifx . 15, 18, 21, 50, 58, 61, 111, 122, 136, 155, 158, 160, 173, 186, 211, 224, 275, 278, 281, 284, 339, 383, 399, 403, 470, 481, 485
\immediate 23, 52, 457
\input 112, 113, 144, 145, 146, 148, 156, 205, 340, 460
\iterate 292, 294, 296

L

\lccode 261, 262
\listfiles 372
\LoadCommand 340, 350
\loop 290, 306, 317, 325
\lowercase 265
\ltx@IfUndefined 204
\ltx@ifundefined 233
\ltx@undefined 241
\ltx@zero 236, 237

M

\makeatletter 376
\makeatother 413
\meaning 121, 135, 418, 422, 428, 432, 507, 511, 517, 521
\MessageBreak 125, 148
\msg . . 457, 507, 509, 511, 513, 517, 519, 521, 523, 531, 533, 540, 542
\mysetup 377, 417, 427, 438, 462, 506, 516, 527

N

\NeedsTeXFormat 370
\newlinechar 458
\next 296, 298, 300
\nofiles 371
\number 331

O

\obeylines 440, 449, 529, 538
\openin 163

P

\PackageError 384, 401, 405
\PackageInfo 26
\par 439, 448, 528, 537
\pdf@filesize 174
\pdfprimitive 146
\ProvidesPackage 19, 67

R

\RangeCatcodeCheck 323, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362
\RangeCatcodeInvalid 315, 343, 344, 345, 346

\repeat 290, 302, 313, 321, 336
\RequirePackage 115, 116, 207
\RestoreCatcodes . . 304, 307, 308, 363

S

\space . 217, 329, 330, 338, 384, 471, 472
\StartDisableUnexpanded 388, 426, 495, 515
\StopDisableUnexpanded 392, 435, 499, 524

T

\Test 342, 365
\TestMeaning 121, 122, 135, 136
\TestString 120, 122, 134, 136
\the 77, 78, 79, 80, 81, 82, 83, 84, 97, 237, 309, 329, 330, 397, 479
\TMP@EnsureCode 94, 101, 102, 103, 104, 105, 106, 107, 108
\toks 236, 237, 397, 401, 415, 479, 483, 504
\tracingnesting 373, 459
\typeout . . . 418, 420, 422, 424, 428, 430, 432, 434, 442, 444, 451, 453

U

\usepackage 375

W

\write 23, 52, 457

X

\x 14, 15, 18, 22, 26, 28, 51, 56, 66, 75, 87, 397, 399, 479, 481

Y

\y 398, 399, 480, 481