

The *currfile* Package

Martin Scharrer

martin@scharrer-online.de

<http://www.ctan.org/pkg/currfile/>

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Abstract

This small package provides the file name and path information of the current input file as \LaTeX macros.

1 Usage

```
\currfiledir  
\currfilebase  
\currfileext  
\currfilename  
\currfilepath
```

The directory, base (name without extension), extension (without dot), name (=base+'.'+ext) and path (=dir+name) of the current file are provided by these macros. This means that the macros return the file information of the file they are used in. All macros are fully expanded, i.e. only hold text and not further macros. Special care is taken to keep the file information of `\included` files till the final `\clearpage` command, so that page header and footer of the last page will hold the correct data.

Since v0.2 all files are taken into account, i.e. files read using `\input`, `\include`, `\InputIfFileExists`, `\usepackage`, `\RequirePackage` and even `\LoadClass` and similar macros. Before v0.2 only `\input` or `\include` and the main file were taken into account.

This package uses the `filehook` package written by the same author. See there for possible incompatibilities with classes or other packages.

More detailed information can be found in the implementation section 3 if required.

Package Options

The package provides two options `mainext` and `maindir` which can be used to provide the extension and directory of the main file. This is required if the above macros should be used for the main file itself and if this does has a file

Table 1: Conversion from `fink` package to `currfile`.

<code>fink</code>	<code>currfile</code>	Example Result
<code>\finkdir</code>	<code>\currfiledir</code>	
<code>\finkbase</code>	<code>\currfilebase</code>	<code>currfile</code>
<code>\finkext</code>	<code>\currfileext</code>	<code>dtx</code>
<code>\finkfile</code>	<code>\currfilename</code>	<code>currfile.dtx</code>
<code>\finkpath</code>	<code>\currfilepath</code>	<code>currfile.dtx</code>

extension other than ‘.tex’ (e.g. a .dtx file) or is not located in the current directory. To provide support for the macros defined by the `fink` package (see section 2) a `fink` option exists.

2 Compatibility with the `fink` package

The `fink` package (*file name keeper*) provides a similar functionality. It has inspired this package in several points (e.g. package options). However, it does not exclude package and other preamble files and does not take care to change the filename *after* the `\clearpage` or `\include`. The author of `fink` is now discontinuing it in favour of this package. Existing documents which use `fink` should either rename the related macros as shown by Table 1 or use the `fink` option of `currfile` which defines the `fink` macros to use the `currfile` ones.

Because both packages do basically the same thing, especially patch the same macros, there are incompatible and should not be loaded at the same time. In consent with the `fink` package author this package will undo most of the `fink` code if it was already loaded or prevent it from being loaded afterwards.

3 Implementation

3.1 Options

```

1 \RequirePackage{kvoptions}
2 \SetupKeyvalOptions{family=currfile,prefix=currfile@}
3
4 \@ifpackageloaded{fink}{%
5     \DeclareStringOption[\fnk@mainext]{mainext}%
6     \DeclareStringOption[\fnk@maindir]{maindir}%
7     \DeclareBoolOption[true]{fink}%
8     \PackageWarning{currfile}{Deprecated package '✓
9         fink' detected. %
10     The 'fink' option will default to 'true'.^^J%
    If set to 'false' no 'fink' macros will be ✓
        changed but they will stop

```

```

11         working correctly!}%
12     }{%
13         \DeclareStringOption[tex]{mainext}%
14         \DeclareStringOption[\@currdir]{maindir}%
15         \DeclareBoolOption[false]{fink}%
16     }%
17     \DeclareVoidOption{force}{\PassOptionsToPackage{force}
18         \RequirePackage{filehook}[2011/01/03]
19     \ProcessKeyvalOptions*\relax
20
21     \begingroup
22     \xdef\currfile@mainext{\currfile@mainext}%
23     \xdef\currfile@maindir{\currfile@maindir}%
24     \def\@tempa{.}%
25     \ifx\@tempa\currfile@maindir
26         \global\let\currfile@maindir\empty
27     \fi
28     \endgroup

```

3.2 File Hooks

The `filehook` package is used to execute the macros at the correct places. However it must be loaded before the option processed because the `fink` compatibility code in `filehook-fink` will modify the option list. The internal interface, not the user-interface, is used to make sure that the file names are valid for all other hooks.

```

29 \filehook@prefixwarg\filehook@every@atbegin{%
30     \currfile@push
31     \currfile@set{#1}%
32 }
33 \filehook@appendwarg\filehook@every@atend{%
34     \currfile@pop
35 }

```

3.3 Set Current Values

`\currfile@set`

Sets the file information which are parsed by L^AT_EX's `\filename@parse`.

```

36 \def\currfile@set#1{%
37     \begingroup
38     \filename@parse{#1}%

```

```

39     \global\let\currfiledir\filename@area
40     \global\let\currfilebase\filename@base
41     \xdef\currfileext{\ifx\filename@ext\relax tex\✓
        else\filename@ext\fi}%
42     \xdef\currfilename{\currfilebase\ifx\currfileext\✓
        empty\else.\currfileext\fi}%
43     \xdef\currfilepath{\currfiledir\currfilename}%
44     \endgroup
45     %<debug> \expandafter\gdef\expandafter\dindent\✓
        expandafter{\dindent\space}%
46     %<debug> \message{^^JDEBUG: \dindent\empty Entering ✓
        file '\currfilename' ^^J }%
47 }

```

3.4 File Stack

The file information are pushed and popped on a stack to save and restore them when entering and leaving a sub-file, respectively. This is quite similar to the way L^AT_EX saves file base names and extension as well as the ‘@’ status (letter or other) for package and class files.

\currfile@push

```

48 \def\currfile@push{%
49   \xdef\currfile@stack{%
50     {\currfiledir}%
51     {\currfilebase}%
52     {\currfileext}%
53     \currfile@stack
54   }%
55 }

```

\currfile@pop

```

56 \def\currfile@pop{%
57   %<debug> \message{^^JDEBUG: \dindent\empty Leaving ✓
        file '\currfilename' ^^J }%
58   \ifx\currfile@stack\empty
59     \PackageWarning{currfile}{File stack underflow!}%
60     \global\let\currfile@stack\currfile@stackinit
61   \fi
62   \expandafter\currfile@pop@\currfile@stack\relax
63   \relax\relax\relax

```

```

64 %<debug> \message{^^JDEBUG: \dindent\empty Restoring ✓
    file '\currfilename' ^^J}%
65 }

```

\currfile@pop@

```

66 \def\currfile@pop@#1#2#3#4\relax{%
67   \gdef\currfiledir{#1}%
68   \gdef\currfilebase{#2}%
69   \gdef\currfileext{#3}%
70   \xdef\currfilename{\currfilebase\ifx\currfileext\✓
    empty\else.\currfileext\fi}%
71   \xdef\currfilepath{\currfiledir\currfilename}%
72   \gdef\currfile@stack{#4}%
73   %<debug> \expandafter\expandafter\expandafter\gdef
74   %<debug> \expandafter\expandafter\expandafter\dindent
75   %<debug> \expandafter\expandafter\expandafter{\✓
    expandafter\@gobble\dindent}%
76 }

```

\currfile@stack

\currfile@stackinit

Place `\jobname` values on stack and use this as init value.

```

77 \def\currfile@stack{}
78 \currfile@set{\currfile@maindir\jobname.\✓
    currfile@mainext}
79 \currfile@push
80 \let\currfile@stackinit\currfile@stack

```

3.5 Fink Macros

The `fink` option defines all `fink` package macros to use the ones provided by this package. If the `fink` package was loaded beforehand the restoration of these macros must be avoided at the end of this file (finks `\InputIfFileExists` was then used to load this package). If the package was not loaded its version is set to a dummy value and its options to this package options. If `fink` is attempted to be loaded later it will trigger an package option clash if different option are used. Otherwise it will be taken as already loaded and not loaded “again”.

```

81 \ifcurrfile@fink
82   \def\finkfile{\currfilename}%
83   \def\finkdir{\currfiledir}%
84   \def\finkpath{\currfilepath}%
85   \def\finkbase{\currfilebase}%
86   \def\finkext{\currfileext}%
87   \@ifpackageloaded{fink}{%
88     \def\fink@restore#1{%
89     }{%
90       \@namedef{ver@fink.sty}{2011/01/03}%
91       \expandafter\edef\csname opt@fink.sty\
92         \endcsname{%
93         maindir=\currfile@maindir ,mainext=\
94         currfile@mainext
95       }%
96     }%
97   \else
98     \@ifpackageloaded{fink}{}{%
99       \AtBeginOfPackageFile{fink}{%
100         \PackageError{currfile}{The 'fink'
101           package is now deprecated. %
102           Load 'currfile' with the 'fink' option
103           or see the upgrade guide in the
104           manual}{}%
105       }%
106     }%
107   \fi

```