# longnamefilelist.sty

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## \listfiles when some File Names Consist of quite a Lot of Characters, such as [to be continued in next package update]*

Uwe Lück†

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### Abstract

longnamefilelist.sty equips LaTeX's \listfiles with an optional argument for the number of characters in the longest base filename. This way you get a neatly aligned file list even when it contains files whose base names have more than 8 characters.

## Contents

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*This document describes version v0.2 of longnamefilelist.sty as of 2012/09/30.
†http://contact-ednotes.sty.de.vu

# 1 Installing and Calling

The file longnamefilelist.sty is provided ready, installation only requires putting it somewhere where TeX finds it (which may need updating the filename data base).[1]

Below the `\documentclass` line(s) and above `\begin{document}`, you load longnamefilelist.sty (as usually) by

`\usepackage{longnamefilelist}`

Alternatively—e.g., for use with myfilist from the fileinfo bundle, see Sec. 3, or in order to include the `.cls` file in the list—you may load it by

`\RequirePackage{longnamefilelist}`

before `\documentclass` or when you don't use `\documentclass`.

# 2 Package File Header (Legalese)

```
1   \NeedsTeXFormat{LaTeX2e}[1994/12/01]
2   \ProvidesPackage{longnamefilelist}[2012/09/30 v0.2
3                   list files with long names (UL)]
4   %%
5   %% Copyright (C) 2012 Uwe Lueck,
6   %% http://www.contact-ednotes.sty.de.vu
7   %% -- author-maintained in the sense of LPPL below --
8   %%
9   %% This file can be redistributed and/or modified under
10  %% the terms of the LaTeX Project Public License; either
11  %% version 1.3c of the License, or any later version.
12  %% The latest version of this license is in
13  %%     http://www.latex-project.org/lppl.txt
14  %% We did our best to help you, but there is NO WARRANTY.
15  %%
16  %% Please report bugs, problems, and suggestions via
17  %%
18  %%   http://www.contact-ednotes.sty.de.vu
19  %%
```

# 3 Usage with **myfilist**

## 3.1 Basically

In order to get a reduced and/or rearranged list of used files with the myfilist package, `longnamefilelist.sty` must be loaded earlier than `myfilist.sty`. This is due to a kind of limitation of the latter, it *issues* `\listfiles` (TODO). Therefore `\listfiles` must be modified earlier—or *issued* earlier, in this case

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[1]`http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf`

the \listfiles in myfilist.sty does nothing. The file SrcFILEs.txt accompanying the distribution of longnamefilelist, e.g., can be generated by running the following file srcfiles.tex with LaTeX:

```
\ProvidesFile{srcfiles.tex}[2012/03/12
                            file infos -> SrcFILEs.txt]
\RequirePackage{longnamefilelist}
\listfiles[16]
\RequirePackage{myfilist}
%% documentation:
\ReadFileInfos{longnamefilelist}
%% documentation settings and auxiliaries:
\ReadPackageInfos{fifinddo,makedoc,niceverb}
\ReadFileInfos{makedoc.cfg,mdoccorr.cfg,srcfiles}
\ListInfos[SrcFILEs.txt]
```

## 3.2 Shorthand

In the above example, the myfilist command \EmptyFileList is missing—it is not intended there. Usually however, it *is* intended, i.e., the following sequence of lines is wanted:

```
\RequirePackage{longnamefilelist}
\listfiles[⟨digit⟩⟨digit⟩]
\RequirePackage{myfilist}
\EmptyFileList[⟨read-again-files⟩]
```

With v0.2, the last three lines can be replaced by

$\boxed{\texttt{\\MaxLengthEmptyList\{}⟨\textit{digit}⟩⟨\textit{digit}⟩\texttt{\}[}⟨\textit{read-again-files}⟩\texttt{]}}$

—"optionally" without '[⟨*read-again-files*⟩]'. This may save the user from worrying about usage with myfilist.

## 4  \listfiles extended

$\boxed{\texttt{\\listfiles[}⟨\textit{number}⟩\texttt{]}}$ "orders" a final list of files with infos and optimizes the list's alignment (in plain text output) when the longest base filename consists of ⟨*number*⟩ characters:

```
20    \renewcommand*{\listfiles}[1][\LNFL@chars@set]{%
```

The default parameter \LNFL@chars@set is defined in Sec. 5.

```
21    \let\listfiles\relax
22    \def\LNFL@chars{#1}%
```

This stores the actual parameter. It is used several times: for preparing the alignment and the final line of stars here and then for aligning each list entry by `\@listfiles` from `\@dofilelist`.

   LaTeX's `\@dofilelist` appends a list of "dummy" tokens \\ to each filename before `\@listfiles` is run on the filename. LaTeX's `\@listfiles` is run 8 times, and there are 8 dummies. Dummies not looked at by `\@listfiles` are removed by some "killing" macro using a token that delimits the dummy list. We use `\relax` tokens as dummies instead. They need not to be removed. And we append ⟨*number*⟩ dummies. They are stored in a macro `\LNFL@dummies`:

```
23      \let\LNFL@dummies\@empty
```

`\LNFL@spaces` is used to align the list title "*file list*" flushleft with the filenames:

```
24      \def\LNFL@spaces{ }%
```

We also use more stars than LaTeX below the list. (However, all of this can also be used for *shorter* names with *less* stars below.)

```
25      \def\LNFL@stars{***}%
26      \count@\LNFL@chars\relax
```

This initializes the loop for adding dummies, title spaces, and stars below the list.

```
27      \@whilenum\count@>\z@\do{%
28        \edef \LNFL@dummies{\LNFL@dummies\relax}%
29        \ifnum8<\count@
30        \edef \LNFL@spaces { \LNFL@spaces}%
31        \fi
32        \edef \LNFL@stars  {*\LNFL@stars}%
33        \advance\count@\m@ne
34      }%
```

Our version of `\@listfiles` takes one token ahead at a time and counts the numbes of tokens that have been looked at so far. For each *dummy* found instead of a filename character, (as with LaTeX) a space is added to `\filename@area` that is used to move the filenames right. As opposed to the LaTeX original version, `\@listfiles` stops being applied after ⟨*number*⟩ times:

```
35      \def\@listfiles##1{%
36        \ifx##1\relax \edef\filename@area{ \filename@area}\fi
37        \advance\count@\m@ne
38        \ifnum\count@>\z@ \expandafter\@listfiles \fi }%
39      \def\@dofilelist{%
```

In LaTeX's `\@dofilelist`, we first replace the single space starting the title line by `\LNFL@spaces`:

```
40         \typeout{^^J\LNFL@spaces *File List*}%
41         \@for\@currname:=\@filelist\do{%
```

This is the loop body adding a list entry line, first like LaTeX:

```
42          \filename@parse\@currname
43          \edef\reserved@a{%
44             \filename@base.%
45             \ifx\filename@ext\relax tex\else\filename@ext\fi}%
46          \expandafter\let\expandafter\reserved@b
47                               \csname ver@\reserved@a\endcsname
```

We use `\@tempa` for expanding both the filename and the list of dummies in time:

```
48          \edef\@tempa{\filename@base\LNFL@dummies}%
49          \count@\LNFL@chars\relax
50          \expandafter\expandafter\expandafter\@listfiles\expandafter
51              \filename@area\@tempa
52          \typeout{%
53             \filename@area\reserved@a
54             \ifx\reserved@b\relax\else
```

I prefer *two* spaces between the columns to four of them:

```
55              \space\space %%% \@spaces
56              \reserved@b\fi}}%
```

The line of stars:

```
57        \typeout{ \LNFL@stars^^J}}%
58    }
```

TODO: 1. keyval package option avoiding `\listfiles` 2. measuring longest filename?

# 5   Setting Name Length *before* `\listfiles`

I first used ⟦`\SetLongNameFileListChars{⟨number⟩}`⟧ for combining the package with myfilist right in place of `\listfiles[⟨number⟩]`. Both commands have the same effect on the following `\RequirePackage{myfilist}`. Now that I have realized that I could issue `\listfiles` earlier, `\SetLongNameFileListChars` is rather obsolete—but who knows…?

```
59    \newcommand*{\SetLongNameFileListChars}{\def\LNFL@chars@set}
```

This macro `\LNFL@chars@set` is used as the default for our new optional parameter for `\listfiles` (Sec. 4).

```
60    \SetLongNameFileListChars{8}
```

This sets the default value for `\listfiles` to the maximum number of characters in the base filename that LaTeX somewhat expects.

# 6 Shorthand for **myfilist**

$\boxed{\texttt{\textbackslash MaxLengthEmptyList}\{\langle digit\rangle\langle digit\rangle\}[\langle \textit{read-again-files}\rangle]}$ as described in Section 3.2 (v0.2):

```
61   \newcommand*{\MaxLengthEmptyList}[1]{%
62       \listfiles[#1]\RequirePackage{myfilist}\EmptyFileList}
```

# 7 Leaving the Package File

```
63   \endinput
```

# 8 VERSION HISTORY

```
64   v0.1   2012/03/11   very first
65          2012/03/12   debugging; \LNFL@spaces, \LNFL@stars
66   v0.1b  2012/03/14   doc fixes: avoiding arrow substitution in listing,
67                       space after "who knows"
68   v0.1c  2012/03/15   more typographical fixes concerning "\LaTeX"
69   v0.2   2012/09/30   \MaxLengthEmptyList
70
```