

# 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]\*

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## Abstract

`longnamefilelist.sty` equips L<sup>A</sup>T<sub>E</sub>X'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.

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\*This document describes version [v0.1](#) of `longnamefilelist.sty` as of 2012/03/12.

<sup>†</sup><http://contact-ednotes.sty.de.vu>

## 1 Installing and Calling

The file `longnamefilelist.sty` is provided ready, installation only requires putting it somewhere where  $\text{\TeX}$  finds it (which may need updating the filename data base).<sup>1</sup>

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 (Legalize)

```
1 \NeedsTeXFormat{LaTeX2e}[1994/12/01]
2 \ProvidesPackage{longnamefilelist}[2012/03/12 v0.1
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

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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<sup>1</sup><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  $\text{\LaTeX}$ :

```
\ProvidesFile{srcfiles.tex}[2012/03/12
                                file infos $\to$ 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]
```

## 4 \listfiles extended

`\listfiles[number]` “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`.

$\text{\LaTeX}$ ’s `\dofilelist` appends a list of “dummy” tokens `\` to each filename before `\@listfiles` is run on the filename.  $\text{\LaTeX}$ ’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  $\text{\LaTeX}$  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 number of tokens that have been looked at so far. For each *dummy* found instead of a filename character, (as with L<sup>A</sup>T<sub>E</sub>X) a space is added to `\filename@area` that is used to move the filenames right. As opposed to the L<sup>A</sup>T<sub>E</sub>X 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 L<sup>A</sup>T<sub>E</sub>X'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 L<sup>A</sup>T<sub>E</sub>X:

```

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      }
```

## 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.

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

## 6 Leaving the Package File

```
61 \endinput
```

## 7 VERSION HISTORY

```
62 v0.1    2012/03/11    very first
63        2012/03/12    debugging; \LNFL@spaces, \LNFL@stars
64
```