longnamefilelist.sty

`\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 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.

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*This document describes version v0.1c of longnamefilelist.sty as of 2012/03/15.

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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 (Legalize)

```
\NeedsTeXFormat{LaTeX2e}[1994/12/01]
\ProvidesPackage{longnamefilelist}[2012/03/15 v0.1c
                  list files with long names (UL)]
%%
%% Copyright (C) 2012 Uwe Lueck,
%% http://www.contact-ednotes.sty.de.vu
%% -- author-maintained in the sense of LPPL below --
%%
%% This file can be redistributed and/or modified under
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%% The latest version of this license is in
%%    http://www.latex-project.org/lppl.txt
%% We did our best to help you, but there is NO WARRANTY.
%%
%% Please report bugs, problems, and suggestions via
%%
%%   http://www.contact-ednotes.sty.de.vu
%%
```

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

[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]
```

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:

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

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

```
  \let\listfiles\relax
  \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:

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

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

```
  \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.)

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

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

```
\@whilenum\count@>\z@\do{%
  \edef \LNFL@dummies{\LNFL@dummies\relax}%
  \ifnum8<\count@
  \edef \LNFL@spaces { \LNFL@spaces}%
  \fi
  \edef \LNFL@stars  {*\LNFL@stars}%
  \advance\count@\m@ne
}%
```

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:

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

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

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

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

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

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

```
      \edef\@tempa{\filename@base\LNFL@dummies}%
      \count@\LNFL@chars\relax
      \expandafter\expandafter\expandafter\@listfiles\expandafter
            \filename@area\@tempa
      \typeout{%
        \filename@area\reserved@a
        \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    v0.1b  2012/03/14   doc fixes: avoiding arrow substitution in listing,
65                        space after "who knows"
66    v0.1c  2012/03/15   more typographical fixes concerning "\LaTeX"
67
```