

# ltxfileinfo print version information for a LaTeX file

doc generated from the script with `gendoc`

bash script, version=2.03

## Synopsis

**ltxfileinfo** [options] filename

Options:

<code>-h,--help</code>	print this help and exit
<code>-H,--Help</code>	print full documentation via less and exit
<code>-V</code>	print this script's version and exit
<code>-d,--date</code>	print file's date only
<code>-v,--version</code>	print file's version only
<code>-i,--info</code>	print file's description text only
<code>-l,--location</code>	print file's full path only (same output as <code>kpsewhich</code> )
<code>-f,--flat</code>	output as 1 line with 4 tab-separated file, date, version and info fields
<code>-s,--star</code>	mark mal-formatted data with a star
<code>-c,--color</code>	mark mal-formatted data with red color (ANSI coloring)
<code>-D,--debug</code>	for debugging, keep temporary files

## Description

**ltxfileinfo** displays version information for LaTeX files. If no path information is given, the file is searched using `kpsewhich`. As an extra, for developers, the script will (use the `--star` or `--color` options) check the validity of the `\Provides...` statement in the files. The script uses code from Uwe Lück's `readprov.sty`.

Without an option, the output will be of the form:

```
$ ltxfileinfo ctable.sty
name: ctable.sty
date: 2012/08/23
vers: v1.24
info: Easy, key=value directed, option-rich, typesetting of floats
loca: /usr/local/texlive/2012/./texmf-local/tex/latex/ctable/ctable.sty
```

Missing information is represented by `--`:

```
$ ltxfileinfo yhmATH.sty
name: yhmATH.sty
date: --
vers: --
info: --
loca: /usr/local/texlive/2012/texmf-dist/tex/latex/yhmATH/yhmATH.sty
```

**ltxfileinfo** tries to detect (and report) mal-formatted dates and versions; use the `--star` option to mark such fields with a star, or use the `--color` option to color invalid fields red, if you work in a terminal with ANSI-coloring capabilities. These options are useful for developers who want to check the correctness of their `\Provides...` statements. For example:

```
$ ltxfileinfo -s arfonts.sty
file: arfonts.sty (ARfonts.sty*)
date: 2006/01/01
vers: --*
info: Part of the Arabi package
loca: /usr/local/texlive/2012/texmf-dist/tex/latex/arabi/arfonts.sty
```

We see here, that the `\ProvidesPackage` statement has an incorrect first argument and has no version information.

## Other output formats

With the `--date` option, only the file's date will be shown, unlabeled. The `--version`, `--location`, `--info` options are treated analogously.

```
$ ltxfileinfo -v chronology.sty
v1.0
```

The `--flat` option prints the fields (except `loca:`, the last field) on one line, unlabeled and tab-separated:

```
$ ltxfileinfo --star --flat chronology.sty
chronology.sty      2010/6/12*      v1.0      Horizontal timeline
```

The date is starred, because its format is not `yyyyImbdd` (and the `--star` option is given.)

## Bugs

On my system, I have a total of 8699 kpsewhich-detectable files that contain a `\Provides...` statement. I ran them all through `ltxfileinfo` and made the following summary of detected errors:

```
8695 Total \Provides... containing files tested

660 \Provides... could not be interpreted; reason:
    160 Argument of \Provides... not equal to file's name
      8 Latex3 package (not handled yet)
    480 Unidentified problem with \ProvidesPackage statement
      12 \Provides... used in file without a ... extension

8035 Files could be evaluated
    482 had no date
      95 had a mal-formatted date
    2666 had no version
      357 had a mal-formatted version
      765 had a \Provides... first argument different from the filename
```

The `.dtx` files have more problems than other files:

```
1345 .dtx files:

320 \Provides... could not be interpreted; reason:
    81 Argument of \Provides... not equal to...
      6 Latex3 package (not handled yet)
    233 Unidentified problem with \ProvidesPackage statement

1025 Files could be evaluated
    49 had no date
    15 had a mal-formatted date
    99 had no version
    52 had a mal-formatted version
    468 had a \Provides... first argument different from the filename
```

## Author and copyright

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