

ltxfileinfo print version information for a LaTeX file

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bash script, version=2.04

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 kpsewhich)
<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* (case difference in \Provides statement)
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 `yyyyImmdd` (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
```

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Author Wybo Dekker
Email wybo@dekkerdocumenten.nl
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