

The counttexruns package*

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Abstract

The counttexruns package counts how often a L^AT_EX document is compiled.

Fork me on GitHub: <https://github.com/ypid/latex-packages/tree/master/counttexruns>

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1 Introduction

From a statistical perspective you maybe want to know how often you compiled a document. This is exactly the task I wrote this package for. For a few years I used a bash script and -shell-escape to do this but I decided to write this small package to do the trick a little nicer.

2 Usage

Just load the package placing

```
\usepackage{counttexruns}
```

*This document corresponds to counttexruns v1.00, dated 2012/08/27.

in the preamble of your L^AT_EX 2_ε source file.

The counter will be stored in a file with the same prefix as your document (`\jobname`) but with the file extension “.ctr”. You can change the default extension by setting it as package option like this:

```
\usepackage[extension=ctr]{counttexruns}
```

`\thecounttexruns` To print the count you can use the macro `\thecounttexruns`. You can also use and even change the L^AT_EX counter “counttexruns”. This will not disturb counttexruns.

By the way this documentation was 40 times compiled during development.

You can use the package `ifthen` for checking if a counter is one:

```
time\ifthenelse{\equal{\value{counttexruns}}{1}}{s}{s}
```

3 Implementation

`\thecounttexruns` First a new counter and file handle is declared. The `\newcounter` will also declare the macro `\thecounttexruns`.

```
1 \newcounter{counttexruns}
2 \newwrite\@counttexrunsfile
```

Then the package options are processed.

```
3 \RequirePackage{kvoptions}
4 \DeclareStringOption[ctr]{extension}
5 \ProcessLocalKeyvalOptions*
```

Here it is checked if the file already exists and if that is the case the number of compile events will be stored in the L^AT_EX counter “counttexruns”.

```
6 \IfFileExists{\jobname.\counttexruns@extension}{
7 \immediate\openin\@counttexrunsfile=\jobname.\counttexruns@extension
8 \immediate\read\@counttexrunsfile to \counttexruns
9 \immediate\read\@counttexrunsfile to \counttexruns
10 \immediate\closeout\@counttexrunsfile
11 \setcounter{counttexruns}{\counttexruns}
12 }{}
```

Here the counter “counttexruns” is increment by one.

```
13 \stepcounter{counttexruns}
```

At this point the new count is written back to the file.

```
14 \immediate\openout\@counttexrunsfile=\jobname.\counttexruns@extension
15 \catcode'\%=11\relax
16 \immediate\write\@counttexrunsfile{%% This file
17 '\jobname.\counttexruns@extension' was generated by the package counttexruns}
18 \catcode'\%=14\relax
19 \immediate\write\@counttexrunsfile{\arabic{counttexruns}}
20 \immediate\closeout\@counttexrunsfile
```

Well, thats is ...

```
21 \endinput
```

Change History

1.00

General: Initial version 1

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

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