The countTEXruns package*

Robin Schneider
ypid23@aol.de

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Abstract

The countTEXruns package counts how often a LaTeX document is compiled.
Information site on CTAN: http://www.ctan.org/pkg/counttexruns
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 v1.00a, dated 2012/08/31.

in the preamble of your LaTeX 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 LaTeX counter "counttexruns". This will not disturb countTeXruns.

By the way this documentation was 9 times compiled during development.

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

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

3 Implementation

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

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

Then the package options are processed.

```
\RequirePackage{kvoptions}
\DeclareStringOption[ctr]{extension}
\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 LaTeX counter "counttexruns".

```
\IfFileExists{\jobname.\counttexruns@extension}{
  \immediate\openin\@counttexrunsfile=\jobname.\counttexruns@extension
  \immediate\read\@counttexrunsfile to \@counttexruns
  \immediate\read\@counttexrunsfile to \@counttexruns
  \immediate\closein\@counttexrunsfile
  \setcounter{counttexruns}{\@counttexruns}
}{}
```

Here the counter "counttexruns" is increment by one.

```
\stepcounter{counttexruns}
```

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

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

Well, thats is ...

```
\endinput
```