

# The `regstats` package

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## Abstract

This L<sup>A</sup>T<sub>E</sub>X package allows to count the number of used registers (counter, dimen, skip, muskip, box, token, input, output, math families, languages, insertions) and compare these to the maximum available number of such registers.

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Save per page about 200 ml water, 2 g CO<sub>2</sub> and 2 g wood:  
Therefore please print only if this is really necessary.

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# 1 Introduction

This L<sup>A</sup>T<sub>E</sub>X package allows to count the number of used registers (counter, dimen, skip, muskip, box, token, input, output, math families, languages, insertions). Therefore the according `\count` is read. While `\count10` should be the number of the counters, `\count11` the one of the dimens and so on, it is possible to use option `proof`, in which case a new one of each register is used and looked at `\the\allocationnumber`, and this is compared to the number determined by reading the `\count`. The result for each register is compared to the maximum available number of the respective register (comparison independent of usage of option `proof`).

## 2 Usage

Just load the package placing

```
\usepackage[<options>]{regstats}
```

in the preamble of your L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> source file. The resulting message will be presented at the end of the compilation messages at the screen and in the `log` file.

### 2.1 Option

`option`     The regstats package takes the following option:

#### 2.1.1 `proof`

`proof`     When option `proof` (or `proof=true`) is choosen, a new one of each register is used and looked at `\the\allocationnumber`, and this is compared to the number determined by reading the `\count`. The default is `proof=false`.

## 3 Alternatives

- `regcount`, 1999/08/03, v1.0, by JEAN-PIERRE F. DRUCBERT, provides the command `\rgcounts`, which can write the numbers of used registers into the `log` file anywhere (not only at the end) and does this automatically `\AtBeginDocument` and `\AtEndDocument` (but not `\AtVeryVeryEnd`). The number of allocated insertions is *wrong* in my opinion, because these are not numbered 1,2,..., but start at a high number, which is then decreased. The package is compatibel with the `regstats` package (i.e. you can use both at the same time in one document) and available at <http://www.ctan.org/pkg/regcount>.
- One can manually search for the last appearance of `\count`, `\dimen`, `\skip`, `\muskip`, `\box`, `\toks`, `\read` (input), `\write` (output), `\mathgroup` (math family), `\language`, and `\insert`, and find the according number there.

(You programmed or found another alternative, which is available at [CTAN](#)? OK, send an e-mail to me with the name, location at [CTAN](#):, and a short notice, and I will probably include it in the list above.)

## 4 Example

```
1 (*example)
2 \documentclass[british]{article}[2007/10/19]% v1.4h
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 \usepackage{hyperref}[2011/04/17]% v6.82g
5 \hypersetup{extension=pdf,%
6 plainpages=false,%
7 pdfpagelabels=true,%
8 hyperindex=false,%
9 pdflang={en},%
10 pdftitle={regstats package example},%
11 pdfauthor={Hans-Martin Muench},%
12 pdfsubject={Example for the regstats package},%
13 pdfkeywords={LaTeX, registers, read, write, language, box, dimen,%
14 count, toks, muskip, skip, counter, regstats, Hans-Martin Muench},%
15 pdfview=Fit,pdfstartview=Fit,%
16 pdfpagelayout=SinglePage%
17 }
18 \usepackage[proof=false]{regstats}[2011/05/16]% v1.0b
19 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
20 \listfiles
21 \begin{document}
22 \pagenumbering{arabic}
23 \section*{Example for regstats}
24
25 This example demonstrates the use of package\newline
26 \textsf{regstats}, v1.0b as of 2011/05/16 (HMM).\newline
27 The used option was \texttt{proof=false}.
28 This is the default option.
29 For more details please see the documentation!\newline
30
31 \noindent Save per page about $200\unit{ml}$ water,
32 $2\unit{g}$ CO$_{2}$ and $2\unit{g}$ wood:\newline
33 Therefore please print only if this is really necessary.\newline
34
35 For the resulting message, please compile regstats-example.tex and
36 have a look at the end of the log-file.
37
38 \end{document}
39 \end{example}
```

## 5 The implementation

We start off by checking that we are loading into L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> and announcing the name and version of this package.

```
40 (*package)
41 \NeedsTeXFormat{LaTeX2e}[2009/09/24]
42 \ProvidesPackage{regstats}[2011/05/16 v1.0b
43     Counting used registers (HMM)]
44
```

A short description of the regstats package:

```
45 %% Allows to count the number of used registers
46 %% (counter, dimen, skip, muskip, box, token, input, output,
47 %% math families, languages, insertions)
48 %% and compare these to the maximum available number of such registers.
49
```

We need the kvoptions and atveryend packages by HEIKO OBERDIEK:

```
50 \RequirePackage{kvoptions}[2010/12/23]% v3.10
51 \RequirePackage{atveryend}[2011/04/23]% v1.7
52
```

A last information for the user:

```
53 %% regstats may work with earlier versions of LaTeX and these
54 %% packages, but this was not tested. Please consider updating
55 %% your LaTeX and packages to the most recent version
56 %% (if they are not already the most recent version).
57
```

See subsection 6.1 about how to get them.

We process the option:

```
58 \SetupKeyvalOptions{family=regstats,prefix=regstats@}
59 \DeclareBoolOption{proof}% \regstats@proof
60 \ProcessKeyvalOptions*
61
```

We try to determine, whether  $\varepsilon$ -T<sub>E</sub>X is available:

```
62 \newif\ifetex
63 \begingroup\expandafter\expandafter\expandafter\endgroup
64 \expandafter\ifx\csname eTeXversion\endcsname\relax
65 \etexfalse
66 \else
67 \etextrue
68 \fi
69
70 \ifetex
71 \PackageInfo{regstats}{e-TeX found.}
72 \else
73 \PackageWarning{regstats}{Could not find e-TeX.\MessageBreak%
74     That can mean that e-TeX was disabled or\MessageBreak%
75     that your distribution of TeX does not contain e-TeX.\MessageBreak%
76     Some packages will not work without e-TeX,\MessageBreak%
77     but should give according messages.\MessageBreak%
78 }
79 \fi
80
```

\AtVeryEndDocument we write to \AtVeryVeryEnd, thus the code will be executed quite late during the compilation. We define a new command to determine the sigular/plural form.

```

81 \AtVeryEndDocument{%
82   \AtVeryVeryEnd{%
83     \newcommand{\regstats@s}[3]{%
84       \setcounter{regstatscount}{#1}
85       \ifnum \value{regstatscount}=0
86         \setcounter{regstatscount}{2}
87       \fi
88       \ifnum \value{regstatscount}>1
89         \gdef\regstats@pl{#3}
90       \else
91         \gdef\regstats@pl{#2}
92       \fi
93     }
94   \newcounter{regstatscount}
95   \edef\regstats@counter{\the\allocationnumber}

```

When option proof was choosen, a new register of the named types is used and its number compared with the according count number. We give a warning about the use of additional registers.

```

96   \ifregstats@proof
97     \PackageWarning{regstats}{%
98       Package regstats loaded with option 'proof'.\MessageBreak%
99       This package itself will use one of each register\MessageBreak%
100      for testing!%
101     }%
102   \def\regstats@proof{1}
103   \edef\regstats@test{\the\count10}
104   \ifx\regstats@counter\regstats@test
105   \else \message{Discrepancy when counting count registers.^^J}
106     \def\regstats@proof{0}
107   \fi
108   \newdimen{\regstatsdimen}
109   \edef\regstats@dimen{\the\allocationnumber}
110   \edef\regstats@test{\the\count11}
111   \ifx\regstats@dimen\regstats@test
112   \else \message{Discrepancy when counting dimen registers.^^J}
113     \def\regstats@proof{0}
114   \fi
115   \newskip\regstatsskip
116   \edef\regstats@skip{\the\allocationnumber}
117   \edef\regstats@test{\the\count12}
118   \ifx\regstats@skip\regstats@test
119   \else \message{Discrepancy when counting skip registers.^^J}
120     \def\regstats@proof{0}
121   \fi
122   \newmuskip\regstatsmuskip
123   \edef\regstats@muskip{\the\allocationnumber}
124   \edef\regstats@test{\the\count13}
125   \ifx\regstats@muskip\regstats@test
126   \else \message{Discrepancy when counting muskip registers.^^J}
127     \def\regstats@proof{0}
128   \fi

```

```

129     \newbox\regstatsbox
130     \edef\regstats@box{\the\allocationnumber}
131     \edef\regstats@test{\the\count14}
132     \ifx\regstats@box\regstats@test
133     \else \message{Discrepancy when counting box registers.^^J}
134         \def\regstats@proof{0}
135     \fi
136     \newtoks\regstatstoks
137     \edef\regstats@toks{\the\allocationnumber}
138     \edef\regstats@test{\the\count15}
139     \ifx\regstats@toks\regstats@test
140     \else \message{Discrepancy when counting toks registers.^^J}
141         \def\regstats@proof{0}
142     \fi
143     \newread\regstatsread
144     \edef\regstats@read{\the\allocationnumber}
145     \edef\regstats@test{\the\count16}
146     \ifx\regstats@read\regstats@test
147     \else \message{Discrepancy when counting read registers.^^J}
148         \def\regstats@proof{0}
149     \fi
150     \newwrite\regstatswrite
151     \edef\regstats@write{\the\allocationnumber}
152     \edef\regstats@test{\the\count17}
153     \ifx\regstats@write\regstats@test
154     \else \message{Discrepancy when counting write registers.^^J}
155         \def\regstats@proof{0}
156     \fi
157     \newfam\regstatsfam
158     \edef\regstats@fam{\the\allocationnumber}
159     \edef\regstats@test{\the\count18}
160     \ifx\regstats@fam\regstats@test
161     \else \message{Discrepancy when counting fam registers.^^J}
162         \def\regstats@proof{0}
163     \fi
164     \newlanguage\regstatslanguage
165     \edef\regstats@language{\the\allocationnumber}
166     \edef\regstats@test{\the\count19}
167     \ifx\regstats@language\regstats@test
168     \else \message{Discrepancy when counting language registers.^^J}
169         \def\regstats@proof{0}
170     \fi
171     \newinsert\regstatsinsert
172     \edef\regstats@insert{\the\allocationnumber}
173     \edef\regstats@test{\the\count20}
174     \ifx\regstats@insert\regstats@test
175     \else \message{Discrepancy when counting insert registers.^^J}
176         \def\regstats@proof{0}
177     \fi

```

When there was a discrepancy somewhere, we give the according message.

```

178     \edef\regstats@test{0}
179     \ifx\regstats@proof\regstats@test
180     \message{Regstats test for register numbers failed.^^J}
181     \message{Therefore option 'proof' is necessary to get the right numbers.^^J}
182     \fi

```

183 \else

Without option `proof`, we just take the values of the various counts.

```
184 \edef\regstats@dimen{\the\count11}
185 \edef\regstats@skip{\the\count12}
186 \edef\regstats@muskip{\the\count13}
187 \edef\regstats@box{\the\count14}
188 \edef\regstats@toks{\the\count15}
189 \edef\regstats@read{\the\count16}
190 \edef\regstats@write{\the\count17}
191 \edef\regstats@fam{\the\count18}
192 \edef\regstats@language{\the\count19}
193 \edef\regstats@insert{\the\count20}
194 \fi
```

`inserts` are used starting with a high number and moving downward.

```
195 \setcounter{regstatscount}{233}
196 \addtocounter{regstatscount}{-\regstats@insert}
197 \addtocounter{regstatscount}{+1}
198 \edef\regstats@insert{\arabic{regstatscount}}
```

The number of used registers of each type and the number of available ones (estimated, probably dependent on distribution and its version, here just distinguished according to availability of  $\varepsilon$ -TeX) is written to screen and log file.

```

199   \message{^^J}
200   \message{Here is how much of TeX's registers you used^^J}%
201   \message{\space (numbers of available registers are estimated!):^^J}%
202   \regstats@s{\regstats@counter}{s}
203   \message{ \regstats@counter\space counter register\regstats@pl\space out of}\ifetex\message{32767}\else\message{233}\fi
204   \regstats@s{\regstats@dimen}{s}
205   \message{^^J \regstats@dimen\space dimen register\regstats@pl\space out of}\ifetex\message{32767}\else\message{233}\fi
206   \regstats@s{\regstats@skip}{s}
207   \message{^^J \regstats@skip\space skip register\regstats@pl\space out of 233}
208   \regstats@s{\regstats@muskip}{s}
209   \message{^^J \regstats@muskip\space muskip register\regstats@pl\space out of}\ifetex\message{32767}\else\message{255}\fi
210   \regstats@s{\regstats@box}{s}
211   \message{^^J \regstats@box\space box register\regstats@pl\space out of}\ifetex\message{32767}\else\message{233}\fi
212   \regstats@s{\regstats@toks}{s}
213   \message{^^J \regstats@toks\space toks register\regstats@pl\space out of}\ifetex\message{32767}\else\message{255}\fi
214   \regstats@s{\regstats@read}{s}
215   \message{^^J \regstats@read\space input stream\regstats@pl\space (read) out of 15}
216   \regstats@s{\regstats@write}{s}
217   \message{^^J \regstats@write\space output stream\regstats@pl\space (write) out of 15}
218   \regstats@s{\regstats@fam}{y}{ies}
219   \message{^^J \regstats@fam\space math famil\regstats@pl\space (fam) out of 15}
220   \regstats@s{\regstats@language}{s}
221   \message{^^J \regstats@language\space language code\regstats@pl\space out of 255}
222   \regstats@s{\regstats@insert}{s}
223   \message{^^J \regstats@insert\space insertion\regstats@pl\space out of}\ifetex\message{124^^J}\else\message{101^^J}\fi
224   }
225 }
226

```

That's it!

227 </package>

## 6 Installation

### 6.1 Downloads

Everything is available at CTAN: <http://www.ctan.org/tex-archive/>, but may need additional packages themselves.

`regstats.dtx` For unpacking the `regstats.dtx` file and constructing the documentation it is required:

- T<sub>E</sub>XFormat L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>: <http://www.CTAN.org/>
- document class `ltxdoc`, 2007/11/11, v2.0u,  
[CTAN:macros/latex/base/ltxdoc.dtx](http://www.ctan.org/macros/latex/base/ltxdoc.dtx)
- package `pdflscape`, 2008/08/11, v0.10,  
[CTAN:macros/latex/contrib/oberdiek/pdflscape.dtx](http://www.ctan.org/macros/latex/contrib/oberdiek/pdflscape.dtx)
- package `holtxdoc`, 2011/02/04, v0.21,  
[CTAN:macros/latex/contrib/oberdiek/holtxdoc.dtx](http://www.ctan.org/macros/latex/contrib/oberdiek/holtxdoc.dtx)
- package `hypdoc`, 2010/03/26, v1.9,  
[CTAN:macros/latex/contrib/oberdiek/hypdoc.dtx](http://www.ctan.org/macros/latex/contrib/oberdiek/hypdoc.dtx)

`regstats.sty` The `regstats.sty` for L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> (i. e. all documents using the `regstats` package) requires:

- T<sub>E</sub>XFormat L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, <http://www.CTAN.org/>
- package `kvoptions`, 2010/12/23, v3.10,  
[CTAN:macros/latex/contrib/oberdiek/kvoptions.dtx](http://www.ctan.org/macros/latex/contrib/oberdiek/kvoptions.dtx)
- package `atveryend`, 2011/04/23, v1.7,  
[CTAN:macros/latex/contrib/oberdiek/atveryend.dtx](http://www.ctan.org/macros/latex/contrib/oberdiek/atveryend.dtx)

`regstats-example.tex` The `regstats-example.tex` requires the same files as all documents using the `regstats` package, i. e. the ones named above and additionally:

- class `article`, 2007/10/19, v1.4h, from `classes.dtx`:  
[CTAN:macros/latex/base/classes.dtx](http://www.ctan.org/macros/latex/base/classes.dtx)
- package `regstats`, 2011/05/16, v1.0b,  
[CTAN:macros/latex/contrib/regstats/regstats.dtx](http://www.ctan.org/macros/latex/contrib/regstats/regstats.dtx)  
(Well, it is the example file for this package, and because you are reading the documentation for the `regstats` package, it can be assumed that you already have some version of it – is it the current one?)

**Alternative** As possible alternative in section 3 there is listed

- `regcount`, 1999/08/03, v1.0:  
<http://www.ctan.org/pkg/regcount>

`Oberdiek` All packages of HEIKO OBERDIEK’S bundle ‘oberdiek’ (especially `holtxdoc`,  
`holtxdoc` `kvoptions`, `atveryend`, and `pdflscape`) are also available in a TDS compliant ZIP  
`kvoptions` archive:  
`atveryend` [CTAN:install/macros/latex/contrib/oberdiek.tds.zip](http://www.ctan.org/install/macros/latex/contrib/oberdiek.tds.zip).

`pdflscape` It is probably best to download and use this, because the packages in there are quite probably both recent and compatible among themselves.

**hyperref**      hyperref is not included in that bundle and needs to be downloaded separately, <http://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip>.

**Münch**      A hyperlinked list of my (other) packages can be found at <http://www.Uni-Bonn.de/~uzs5pv/LaTeX.html>.

## 6.2 Package, unpacking TDS

**Package.** This package is available on **CTAN**:

**CTAN:macros/latex/contrib/regstats/regstats.dtx**  
The source file.

**CTAN:macros/latex/contrib/regstats/regstats.pdf**  
The documentation.

**CTAN:macros/latex/contrib/regstats/regstats-example.pdf**  
The compiled example file, as it should look like.

**CTAN:macros/latex/contrib/regstats/README**  
The README file.

**CTAN:install/macros/latex/contrib/regstats.tds.zip**  
Everything in TDS compliant, compiled format.

which additionally contains

regstats.ins	The installation file.
regstats.drv	The driver to generate the documentation.
regstats.sty	The .sty file.
regstats-example.tex	The example file.
regstats-example.log	A log file for the example.

For required other packages, see the preceding subsection.

**Unpacking.** The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain  $\TeX$ :

```
tex regstats.dtx
```

About generating the documentation see paragraph 6.4 below.

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as **texmf** tree):

regstats.sty	→ tex/latex/regstats.sty
regstats.pdf	→ doc/latex/regstats.pdf
regstats-example.tex	→ doc/latex/regstats-example.tex
regstats-example.pdf	→ doc/latex/regstats-example.pdf
regstats-example.log	→ doc/latex/regstats-example.log
regstats.dtx	→ source/latex/regstats.dtx

If you have a **docstrip.cfg** that configures and enables **docstrip**'s TDS installing feature, then some files can already be in the right place, see the documentation of **docstrip**.

### 6.3 Refresh file name databases

If your  $\text{T}_{\text{E}}\text{X}$  distribution (te $\text{T}_{\text{E}}\text{X}$ , mik $\text{T}_{\text{E}}\text{X}$ ,...) relies on file name databases, you must refresh these. For example, te $\text{T}_{\text{E}}\text{X}$  users run `texhash` or `mktextlsr`.

### 6.4 Some details for the interested

**Unpacking with  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ .** The `.dtx` chooses its action depending on the format:

**plain  $\text{T}_{\text{E}}\text{X}$ :** Run `docstrip` and extract the files.

**$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :** Generate the documentation.

If you insist on using  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  for `docstrip` (really, `docstrip` does not need  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ ), then inform the `autodetect` routine about your intention:

```
latex \let\install=y\input{regstats.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

**Generating the documentation.** You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by a configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :

```
pdflatex regstats.dtx
makeindex -s gind.ist regstats.idx
pdflatex regstats.dtx
makeindex -s gind.ist regstats.idx
pdflatex regstats.dtx
```

### 6.5 Compiling the example

The example file, `regstats-example.tex`, can be compiled via `(pdf)latex regstats-example.tex`.

## 7 Acknowledgements

I would like to thank HEIKO OBERDIEK (heiko dot oberdiek at googlemail dot com) for providing the `hyperref` as well as a lot (!) of other useful packages (from which I also got everything I know about creating a file in `.dtx` format, ok, say it: copying), JEAN-PIERRE F. DRUCBERT for his `regcount` package, ROBIN FAIRBAIRNS for pointing me to the `regcount` package, and the `news:comp.text.tex` and `news:de.comp.text.tex` newsgroups for their help in all things  $\text{T}_{\text{E}}\text{X}$ .

## 8 History

[2011/05/14 v1.0a]

- Upload to [CTAN](#):

[2011/05/16 v1.0b]

- Name clash with `regcount` package, fixed.
- `regcount` package listed as possible alternative.
- Bug: skip and muskip mixed up, fixed.
- Counting of skips, math families, and insertions added.
- Bug fix: insertions are numbered high to low.
- Option `proof` added.
- Diverse details.

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

## 9 Index

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

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