The **regcount** package

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Abstract

This package\(^1\) writes in the `.log` file the allocation status of various \TeX\ registers (counters, lengths, skips, etc.). It *does not produce anything* in the document.

1 The **regcount** package

\texttt{\textbackslash rgcounts} This package defines the \texttt{\textbackslash rgcounts} macro who writes in the `.log` the allocation status of the various kinds of \TeX\ registers. The user can call this macro at any time, but it is always invoked at the `\begin{document}` and `\end{document}` limits. The \texttt{\textbackslash rgcounts} does not write anything in your document.

The main use of this package and of the \texttt{\textbackslash rgcounts} macro is to see the needs in \TeX\ registers of the packages you are loading in your document, so you can add \texttt{\textbackslash rgcounts} commands before and after the `\texttt{\usepackage}` commands.

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2 Implementation

\rgcounts

There is one internal macro for each kind of \TeX register. I hope I do not forget some ones. The allocation counters are dependent of the release, but it seems stable.

1. Counter registers:

\rgc@counts

\def\rgc@counters{\GenericInfo{}{%
  \spaces Allocated counter registers= \the\count10\spaces}}

2. Dimension registers:

\rgc@dimens

\def\rgc@dimens{\GenericInfo{}{%
  \spaces Allocated dimen registers= \the\count11\spaces}}

3. Skip registers:

\rgc@skips

\def\rgc@skips{\GenericInfo{}{%
  \spaces Allocated skip registers= \the\count12\spaces}}

4. Muskip registers:

\rgc@muskips

\def\rgc@muskips{\GenericInfo{}{%
  \spaces Allocated muskip registers= \the\count13\spaces}}

5. Box registers:

\rgc@boxes

\def\rgc@boxes{\GenericInfo{}{%
  \spaces Allocated box registers= \the\count14\spaces}}

6. Token registers:

\rgc@tokens

\def\rgc@tokens{\GenericInfo{}{%
  \spaces Allocated token registers= \the\count15\spaces}}
7. Input channels:
\rgc@inputs
\def\rgc@inputs{\GenericInfo{% (regcount)\@spaces Allocated input channels= \the\count16\@spaces}}

8. Output channels:
\rgc@outputs
\def\rgc@outputs{\GenericInfo{% (regcount)\@spaces Allocated output channels= \the\count17\@spaces}}

9. Math families:
\rgc@mathfamilies
\def\rgc@mathfamilies{\GenericInfo{% (regcount)\@spaces Allocated math families= \the\count18\@spaces}}

10. Languages:
\rgc@languages
\def\rgc@languages{\GenericInfo{% (regcount)\@spaces Allocated languages= \the\count19\@spaces}}

11. Insertions:
\rgc@insertions
\def\rgc@insertions{\GenericInfo{% (regcount)\@spaces Allocated insertions= \the\count20\@spaces}}

\rgcounts This (user) macro calls all the preceding ones, and add some text.
\def\rgcounts{% \GenericInfo{% (regcount)\@spaces ================== ALLOCATIONS ================== \@spaces}% \rgc@counters \rgc@dimens \rgc@skips \rgc@muskips \rgc@boxes \rgc@tokens \rgc@inputs \rgc@outputs \rgc@mathfamilies \rgc@languages \rgc@insertions \GenericInfo{% (regcount)\@spaces ================== \@spaces}% \ignorespaces}
And we add two automatic calls:

```
\AtBeginDocument{\rgcounts}
\AtEndDocument{\rgcounts}
\endinput
```

### Change History

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>v1.0</td>
<td>General: (JPFD) First officially released version.</td>
<td>1</td>
</tr>
<tr>
<td>v1.1</td>
<td>General: (JPFD) Corrected typos.</td>
<td>1</td>
</tr>
</tbody>
</table>