

The `aliascnt` package

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Abstract

Package `aliascnt` introduces *alias counters* that share the same counter register and clear list.

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*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

1 User interface

1.1 Introduction

There are features that rely on the name of counters. For example, `\hyperref`'s `\autoref` indirectly uses the counter name to determine which label text it puts in front of the reference number ([3]). In some circumstances this fail: several theorem environments are defined by `\newtheorem` that share the same counter.

1.2 Syntax

Macro names in user land contain the package name `aliascnt` in order to prevent name clashes.

```
\newaliascnt{\ALIASCNT}{\BASECNT}
```

An alias counter `ALIASCNT` is created that does not allocate a new `TeX` counter register. It shares the count register and the clear list with counter `BASECNT`. If the value of either the two registers is changed, the changes affects both.

```
\aliascntresetthe{\ALIASCNT}
```

This fixes a problem with `\newtheorem` if it is fooled by an alias counter with the same name:

```
\newtheorem{foo}{Foo}% counter "foo"
\newaliascnt{bar}{foo}% alias counter "bar"
\newtheorem{bar}[bar]{Bar}
\aliascntresetthe{bar}
```

2 Implementation

2.1 Identification

```
1 {*package}
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{aliascnt}%
4 [2016/05/16 v1.4 Alias counters (HO)]%
```

2.2 Create new alias counter

`\newaliascnt` A new alias counter is set up by `\newaliascnt`. The following properties are added for the new counter CNT:

`\theH{CNT}`: Compatibility for `\hyperref`

`\AC@cnt@{CNT}`: Name of the referenced counter in the definition.

```
5 \newcommand*{\newaliascnt}[2]{%
6   \begingroup
7   \def\AC@glet##1{%
8     \global\expandafter\let\csname##1#1\expandafter\endcsname
9     \csname##1#2\endcsname
10  }%
11  \@ifundefined{c@#2}{%
12    \nocounterr{#2}%
13  }{%
14    \expandafter\@ifdefinable\csname c@#1\endcsname{%
15      \AC@glet{c@}%
16      \AC@glet{\the}%
17    }{%
18      \AC@glet{\relax}%
19    }%
20  }%
21  \AC@glet{\relax}%
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23 \AC@glet{\relax}%
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25 \AC@glet{\relax}%
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1204}%
1205 \AC@glet{\relax}%
120
```

```

17      \AC@glet{theH}%
18      \AC@glet{p@}%
19      \expandafter\gdef\csname AC@cnt@#1\endcsname{#2}%
20      \expandafter\gdef\csname cl@#1\expandafter\endcsname
21      \expandafter{\csname cl@#2\endcsname}%
22      }%
23      }%
24  \endgroup
25 }

```

\aliascntresetthe The `\the<CNT>` macro is restored using the main counter.

```

26 \newcommand*{\aliascntresetthe}[1]{%
27   \ifundefined{AC@cnt@#1}{%
28     \PackageError{aliascnt}{%
29       '#1' is not an alias counter}%
30   }{\@ehc
31 }{%
32   \expandafter\let\csname the#1\expandafter\endcsname
33   \csname the\csname AC@cnt@#1\endcsname\endcsname
34 }%
35 }

```

2.3 Counter clear list

The alias counters share the same register and clear list. Therefore we must ensure that manipulations to the clear list are done with the clear list macro of a real counter.

\AC@findrootcnt `\AC@findrootcnt` walks through the aliasing relations to find the base counter.

```

36 \newcommand*{\AC@findrootcnt}[1]{%
37   \ifundefined{AC@cnt@#1}{%
38     #1%
39   }{%
40     \expandafter\AC@findrootcnt\csname AC@cnt@#1\endcsname
41   }%
42 }

```

Clear lists are manipulated by `\@addtoreset` and `\@removefromreset`. The latter one is provided by the `remreset` package ([2]).

\AC@patch The same patch principle is applicable to both `\@addtoreset` and `\@removefromreset`.

```

43 \def\AC@patch#1{%
44   \expandafter\let\csname AC@org@#1reset\expandafter\endcsname
45   \csname @#1reset\endcsname
46   \expandafter\def\csname @#1reset\endcsname##1##2{%
47     \csname AC@org@#1reset\endcsname{##1}{\AC@findrootcnt{##2}}%
48   }%
49 }

```

If `remreset` is not loaded we cannot delay the patch to `\AtBeginDocument`, because `\@removefromreset` can be called in between. Therefore we force the loading of the package.

```

50 \RequirePackage{remreset}
51 \AC@patch{addto}
52 \AC@patch{removefrom}
53 
```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

`CTAN:macros/latex/contrib/oberdiek/aliascnt.dtx` The source file.

`CTAN:macros/latex/contrib/oberdiek/aliascnt.pdf` Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

`CTAN:install/macros/latex/contrib/oberdiek.tds.zip`

TDS refers to the standard “A Directory Structure for \TeX Files” (`CTAN:tds/tds.pdf`). Directories with `texmf` in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDs:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

3.3 Package installation

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

```
tex aliascnt.dtx
```

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

```
aliascnt.sty → tex/latex/oberdiek/aliascnt.sty
aliascnt.pdf → doc/latex/oberdiek/aliascnt.pdf
aliascnt.dtx → source/latex/oberdiek/aliascnt.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`.

3.4 Refresh file name databases

If your \TeX distribution (te \TeX , mik \TeX , ...) relies on file name databases, you must refresh these. For example, te \TeX users run `texhash` or `mktexlsr`.

¹<http://ctan.org/pkg/aliascnt>

3.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk aliascnt.pdf unpack_files output .
```

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{aliascnt.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 the 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 pdfL^AT_EX:

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

4 Catalogue

The following XML file can be used as source for the **T_EX Catalogue**. The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `aliascnt.xml`.

```
54 <catalogue>
55 <?xml version='1.0' encoding='us-ascii'?>
56 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
57 <entry datestamp='$Date$' modifier='$Author$' id='aliascnt'>
58   <name>aliascnt</name>
59   <caption>Alias counters.</caption>
60   <authorref id='auth:oberdiek' />
61   <copyright owner='Heiko Oberdiek' year='2006,2009' />
62   <license type='lppl1.3' />
63   <version number='1.4' />
64   <description>
65     This package introduces aliases for counters, that
66     share the same counter register and clear list.
67     <p/>
68     The package is part of the <xref refid='oberdiek'>oberdiek</xref>
69     bundle.
70   </description>
```

```

71  <documentation details='Package documentation'
72      href='ctan:/macros/latex/contrib/oberdiek/aliascnt.pdf'/>
73  <ctan file='true' path='macros/latex/contrib/oberdiek/aliascnt.dtx'/>
74  <miktex location='oberdiek' />
75  <texlive location='oberdiek' />
76  <install path='macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
77 </entry>
78 </catalogue>

```

5 Acknowledgement

Ulrich Schwarz: The package is based on his draft for “Die TEXnische Komödie”, see [1].

6 References

- [1] Ulrich Schwarz: *Was hinten herauskommt zählt: Counter Aliasing in ETEX, Die TEXnische Komödie*, 3/2006, pages 8–14, Juli 2006.
- [2] David Carlisle: *The remreset package*; 1997/09/28; CTAN:macros/latex/contrib/carlisle/remreset.sty.
- [3] Sebastian Rahtz, Heiko Oberdiek: *The hyperref package*; 2006/08/16 v6.75c; CTAN:macros/latex/contrib/hyperref/.

7 History

[2006/02/20 v1.0]

- First version.

[2006/08/16 v1.1]

- Update of bibliography.

[2006/09/25 v1.2]

- Bug fix (\aliascntresetthe).

[2009/09/08 v1.3]

- Bug fix of \ifdefinable’s use (thanks to Uwe Lück).

[2016/05/16 v1.4]

- Documentation updates.

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