The uniquecounter package

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Abstract

This package provides a kind of counter that provides unique number values. Several counter can be created by different names. The numeric values are not limited.

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1 Documentation

Macro \UniqueCounterNew creates a new unique counter $\langle name \rangle$. An error is thrown, if the counter already exists.

\UniqueCounterCall $\{\langle name \rangle\}\ \{\langle code \rangle\}$

Macro \UniqueCounterCall calls the given $\langle code \rangle$ with a new value of counter $\langle name \rangle$ as argument.

```
\UniqueCounterIncrement \{\langle name \rangle\}
```

Macro \UniqueCounterIncrement generates a new value for the counter $\langle name \rangle$ by incrementing by one (globally).

```
\UniqueCounterGet \{\langle name \rangle\}
```

Expandable macro \UniqueCounterGet returns the current value of counter $\langle name \rangle$

1.1 Example

```
1 (*example)
{\tt 2 \setminus documentclass\{minimal\}}
3 \usepackage{uniquecounter}
4 \UniqueCounterNew{anchor}
5 \makeatletter
6 \newcommand*{\DefNewAnchorName}[2]{%
    % #1 is unique counter value
    % #2 is name of anchor
    \ensuremath{\mbox{Qnamedef\{anchor@#2\}\{a\#1\}\%}}
10 }
11 \newcommand*{\NewAnchorName}[1]{%
    12
13 }
14 \newcommand*{\PrintAnchorName}[1]{%
    \@nameuse{anchor@#1}%
15
16 }
17 \begin{document}
    \NewAnchorName{Top}%
18
    \NewAnchorName{Left}%
19
20
    \noindent
    Top: \PrintAnchorName{Top}\\%
21
   Left: \PrintAnchorName{Left}%
22
23 \end{document}
24 (/example)
```

2 Implementation

```
25 (*package)
```

2.1 Reload check and package identification

Reload check, especially if the package is not used with LATEX.

```
26 \begingroup
    \catcode44 12 % ,
27
    \catcode45 12 % -
28
    \catcode46 12 % .
    \catcode58 12 % :
30
    \catcode64 11 % @
31
32
    \catcode123 1 % {
33
    \catcode125 2 % }
    \expandafter\let\expandafter\x\csname ver@uniquecounter.sty\endcsname
34
35
    \ifx\x\relax % plain-TeX, first loading
36
    \else
       \def\empty{}%
37
38
       \ifx\x\empty % LaTeX, first loading,
         \mbox{\ensuremath{\mbox{\%}}} variable is initialized, but \mbox{\ensuremath{\mbox{\sc ProvidesPackage}}} not yet seen
39
40
         \catcode35 6 % #
41
         \expandafter\ifx\csname PackageInfo\endcsname\relax
42
43
            \def\x#1#2{%}
```

```
\immediate\write-1{Package #1 Info: #2.}%
 44
           }%
 45
         \else
 46
 47
           \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
 48
 49
          \x{uniquecounter}{The package is already loaded}%
 50
          \aftergroup\endinput
 51
     \fi
52
53 \endgroup
Package identification:
 54 \begingroup
     \catcode35 6 % #
 55
     \catcode40 12 % (
 56
     \catcode41 12 % )
57
    \catcode44 12 % ,
 58
    \catcode45 12 % -
 59
    \catcode46 12 % .
 60
     \catcode47 12 % /
 61
    \catcode58 12 % :
    \catcode64 11 % @
 64
     \catcode91 12 % [
     \catcode93 12 % ]
 65
     \catcode123 1 % {
 66
     \catcode125 2 % }
 67
     \expandafter\ifx\csname ProvidesPackage\endcsname\relax
 68
       \def \x#1#2#3[#4] {\endgroup}
 69
 70
         \immediate\write-1{Package: #3 #4}%
 71
          \xdef#1{#4}%
 72
       }%
 73
     \else
       \def \x#1#2[#3] {\endgroup}
 74
 75
         #2[{#3}]%
         \int 1\0undefined
 76
           \xdef#1{#3}%
 77
         \fi
 78
         \ifx#1\relax
 79
           \xdef#1{#3}%
 80
         \fi
 81
       }%
 82
 84 \expandafter\x\csname ver@uniquecounter.sty\endcsname
 85 \ProvidesPackage{uniquecounter}%
     [2009/09/11 v1.0 Provides unlimited unique counter (HO)]
```

2.2 Catcodes

```
87 \begingroup
88
     \catcode123 1 % {
     \catcode125 2 % }
89
90
     \def\x{\endgroup
       \expandafter\edef\csname uqc@AtEnd\endcsname{%
91
         \catcode35 \the\catcode35\relax
92
93
         \catcode64 \the\catcode64\relax
94
         \catcode123 \the\catcode123\relax
         \catcode125 \the\catcode125\relax
95
96
       }%
97
     }%
98 \x
99 \catcode35 6 % #
100 \catcode64 11 % @
101 \catcode123 1 % {
```

```
102 \catcode125 2 % }
             103 \def\TMP@EnsureCode#1#2{%
                   \edef\uqc@AtEnd{%
             104
                     \uqc@AtEnd
             105
             106
                     \catcode#1 \the\catcode#1\relax
             107
                  }%
             108
                   \catcode#1 #2\relax
             109 }
             110 \TMP@EnsureCode{33}{12}% !
             111 \TMP@EnsureCode{39}{12}%
             112 \TMP@EnsureCode{42}{12}% *
             113 \TMP@EnsureCode{43}{12}% +
             114 \TMP@EnsureCode\{46\}\{12\}\% .
             115 \TMP@EnsureCode{47}{12}% /
             116 \TMP@EnsureCode{61}{12}% =
             117 \TMP@EnsureCode{96}{12}%
             118 \begingroup\expandafter\expandafter\expandafter\endgroup
             119 \expandafter\ifx\csname RequirePackage\endcsname\relax
                  \input bigintcalc.sty\relax
             121
                   \input infwarerr.sty\relax
             122 \else
             123
                  \RequirePackage{bigintcalc}[2007/11/11]%
             124
                   \RequirePackage{infwarerr}[2007/09/09]%
             125 \fi
\uqc@IncNum
             126 \begingroup\expandafter\expandafter\expandafter\endgroup
             127 \expandafter\ifx\csname numexpr\endcsname\relax
                   \def\uqc@IncNum#1{%
             129
                     \begingroup
                       \count@=\csname uqc@cnt@#1\endcsname\relax
             130
             131
                       \advance\count@\@ne
                       \expandafter\xdef\csname uqc@cnt@#1\endcsname{%
             132
                         \number\count@
             133
             134
                       \ifnum\count@=2147483647 %
             135
                         \global\expandafter\let\csname uqc@inc@#1\endcsname
             136
             137
                         \uqc@IncBig
             138
                       \fi
             139
                     \endgroup
                  }%
             140
             141 \else
                   \def\uqc@IncNum#1{%
             142
                     \expandafter\xdef\csname uqc@cnt@#1\endcsname{%
             143
                       \number\numexpr\csname uqc@cnt@#1\endcsname+1%
             144
                     }%
             145
                     \ifnum\csname uqc@cnt@#1\endcsname=2147483647 %
             146
                       \global\expandafter\let\csname uqc@inc@#1\endcsname
             147
                       \uqc@IncBig
             148
             149
                     \fi
                  }%
             150
             151 \fi
\uqc@IncBig
             152 \def\uqc@IncBig#1{%
             153
                   \expandafter\xdef\csname uqc@cnt@#1\endcsname{%
             154
                     \expandafter\expandafter\expandafter
                     \BigIntCalcInc\csname uqc@cnt@#1\endcsname!%
             155
             156
                  }%
             157 }
   \uqc@Def
```

4

```
158 \begingroup\expandafter\expandafter\expandafter\endgroup
                          159 \expandafter\ifx\csname newcommand\endcsname\relax
                               \def\uqc@Def#1{\def#1##1}%
                          161 \ensuremath{\setminus} else
                          162 \ \ensuremath{\def \uqc@Def#1{\newcommand*{#1}[1]}\%}
                          163 \fi
      \UniqueCounterNew
                          164 \uqc@Def\UniqueCounterNew{%
                                \expandafter\ifx\csname uqc@cnt@#1\endcsname\relax
                                  \expandafter\xdef\csname uqc@cnt@#1\endcsname{0}%
                          166
                                  \global\expandafter\let\csname uqc@inc@#1\endcsname\uqc@IncNum
                          167
                                  \@PackageInfo{uniquecounter}{New unique counter '#1'}%
                          168
                          169
                                \else
                          170
                                  \@PackageError{uniquecounter}{Unique counter '#1' is already defined}\@ehc
                          171
                                \fi
                          172 }
\UniqueCounterIncrement
                          173 \uqc@Def\UniqueCounterIncrement{%
                                \expandafter\ifx\csname uqc@cnt@#1\endcsname\relax
                                  \@PackageError{uniquecounter}{Unique counter '#1' is undefined}\@ehc
                          175
                                \else
                          176
                                  \csname uqc@inc@#1\endcsname{#1}%
                          177
                                \fi
                          178
                          179 }
      \UniqueCounterGet
                          180 \uqc@Def\UniqueCounterGet{%
                                \csname uqc@cnt@#1\endcsname
                          182 }
     \UniqueCounterCall
                          183 \uqc@Def\UniqueCounterCall{%
                                \expandafter\ifx\csname uqc@cnt@#1\endcsname\relax
                                  \@PackageError{uniquecounter}{Unique counter '#1' is undefined}\@ehc
                          185
                                  \expandafter\uqc@Call\expandafter0%
                          186
                          187
                                \else
                                  \UniqueCounterIncrement{#1}%
                          188
                                  \expandafter\expandafter\expandafter\uqc@Call
                          189
                                  \csname uqc@cnt@#1\expandafter\endcsname
                          190
                          191
                                \fi
                          192 }
               \uqc@Call
                          193 \long\def\uqc@Call#1#2{#2{#1}}%
                          194 \uqc@AtEnd
                          195 (/package)
                          3
                                Test
                                 Catcode checks for loading
                          3.1
                          196 (*test1)
                          197 \catcode'\{=1 %
                          198 \catcode'\}=2 %
                          199 \catcode'\#=6 %
                          200 \catcode'\@=11 %
                          201 \expandafter\ifx\csname count@\endcsname\relax
```

```
\countdef\count@=255 %
202
203 \fi
204 \expandafter\ifx\csname Qgobble\endcsname\relax
207 \expandafter\ifx\csname @firstofone\endcsname\relax
208 \long\def\@firstofone#1{#1}%
209 \fi
210 \expandafter\ifx\csname loop\endcsname\relax
     \expandafter\@firstofone
212 \ensuremath{\setminus} \texttt{else}
213 \expandafter\@gobble
214 \fi
215 {%
216
     \def\loop#1\repeat{%
217
       \def\body{#1}%
218
       \iterate
    }%
219
     \def\iterate{%
220
221
       \body
         \let\next\iterate
222
223
       \else
         \let\next\relax
224
225
       \fi
226
       \next
     }%
227
     \let\repeat=\fi
^{228}
229 }%
231 \count@=0 %
232 \loop
233
     \edef\RestoreCatcodes{%
234
       \RestoreCatcodes
       \catcode\the\count@=\the\catcode\count@\relax
235
237 \ifnum\count@<255 %
    \advance\count@ 1 %
239 \repeat
240
241 \def\RangeCatcodeInvalid#1#2{%
242
    \count@=#1\relax
    \loop
243
      \catcode\count@=15 %
244
245
     \ifnum\count@<#2\relax
246
      \advance\count@ 1 %
247
     \repeat
248 }
\def\LoadCommand{\input uniquecounter.sty\relax}%
251 \fi
252 \left\{ \text{Test} \right\}
     \RangeCatcodeInvalid{0}{47}%
253
     \RangeCatcodeInvalid{58}{64}%
254
     \RangeCatcodeInvalid{91}{96}%
255
256
     \RangeCatcodeInvalid{123}{255}%
257
     \catcode'\@=12 %
258
    \catcode'\\=0 %
259
    \catcode'\{=1 %
260
    \catcode'\}=2 %
    \catcode'\#=6 %
261
   \catcode'\[=12 %
262
    \catcode'\]=12 %
263
```

```
264 \catcode'\%=14 %
265 \catcode'\ =10 %
266 \catcode13=5 %
267 \LoadCommand
268 \RestoreCatcodes
269 }
270 \Test
271 \csname @@end\endcsname
272 \end
273 \( /test1 \)
```

3.2 Macro tests

3.2.1 Test with LATEX

```
274 (*test2)
275 \NeedsTeXFormat{LaTeX2e}
276 \setminus nofiles
277 \documentclass{minimal}
278 \usepackage{uniquecounter}[2009/09/11]
279 \usepackage{qstest}
280 \IncludeTests{*}
281 \LogTests\{log\}\{*\}\{*\}
283 \newcommand*{\CheckValue}[2]{%
284
     \Expect*{#2}*{\UniqueCounterGet{#1}}%
285 }
286 \newcommand*{\CheckSpace}[1]{\%
     \sbox0{#1}%
287
     \Expect{0.0pt}*{\the\wd0}%
288
289 }
290
291 \begin{qstest}{creation}{creation}
     \CheckSpace{%
292
293
       \UniqueCounterNew{test}%
294
295
     \CheckValue{test}{0}%
296 \end{qstest}
297
298 \begin{qstest}{increment}{increment}
     \CheckSpace{%
299
       \UniqueCounterIncrement{test}%
300
301
     \CheckValue{test}{1}%
302
303
     \makeatletter
     \def\uqc@cnt@test{2147483645}%
304
305
     \CheckValue{test}{2147483645}%
     \CheckSpace{%
306
       \UniqueCounterIncrement{test}%
307
308
     \CheckValue{test}{2147483646}%
309
     \CheckSpace{%
310
       \UniqueCounterIncrement{test}%
311
312
     \Expect{true}*{\ifx\uqc@inc\uqc@NumInc true\else false\fi}%
313
314
     \CheckValue{test}{2147483647}%
315
     \CheckSpace{%
       \UniqueCounterIncrement{test}%
316
317
     318
319
     \CheckSpace{%
320
       \UniqueCounterIncrement{test}%
321
```

```
\CheckValue{test}{2147483649}%
322
323 \end{qstest}
324
325 \begin{qstest}{call}{call}
326
     \def\CheckCall#1#2{%
327
       \Expect{#1}{#2}%
328
329
     \CheckSpace{%
       \UniqueCounterNew{foo}%
330
331
     \CheckValue{foo}{0}%
332
     \CheckSpace{%
333
       \UniqueCounterCall{foo}{\CheckCall}{1}%
334
335
     \CheckSpace{%
336
       \UniqueCounterCall{foo}{\CheckCall}{2}%
337
338
     \CheckValue{foo}{2}%
339
340 \end{qstest}
341
342 \csname @@end\endcsname
343 (/test2)
3.2.2
      Test with plain-TeX
344 (*test3)
345 \input uniquecounter.sty\relax
346 \catcode'\@=11 %
348
     \begingroup
       \end{4}{42}\%
349
       \edef\B{\UniqueCounterGet{#1}}%
350
351
       \inf A B
352
       \else
         \@PackageError{TEST}{Failed: \A\space<> \B}\@ehc
353
       \fi
354
355
     \endgroup
356 }
357 \def\CheckSpace#1{%
358
     \stbox0=\hbox{#1}%
     359
360
     \else
       \@PackageError{TEST}{Failed: 0.0pt <> \the\wd0}\@ehc
361
362
     \fi
363 }
364
365 \begingroup
     \CheckSpace{%
367
       \UniqueCounterNew{test}%
368
     \CheckValue{test}{0}%
369
370 \setminus endgroup
371
372 \setminus begingroup
373
     \CheckSpace{%
       \UniqueCounterIncrement{test}%
374
375
376
     \CheckValue{test}{1}%
     \def\uqc@cnt@test{2147483645}%
377
378
     \CheckValue{test}{2147483645}%
379
     \CheckSpace{%
       \UniqueCounterIncrement{test}%
380
381
     \CheckValue{test}{2147483646}%
382
```

```
\CheckSpace{%
383
       \UniqueCounterIncrement{test}%
384
385
     \ifx\uqc@inc\uqc@NumInc
386
387
388
       \@PackageError{TEST}{Failed: wrong inc function}\@ehc
389
     \fi
     \CheckValue{test}{2147483647}%
390
391
     \CheckSpace{%
       \UniqueCounterIncrement{test}%
392
     }%
393
     \CheckValue{test}{2147483648}%
394
395
     \CheckSpace{%
        \UniqueCounterIncrement{test}%
396
397
     \CheckValue{test}{2147483649}%
398
399 \endgroup
400 \begingroup
     \def\CheckCall#1#2{%
401
402
        \begingroup
403
          \def\A{#1}%
          \left( \frac{B}{\#2} \right)
404
          \int A B
405
406
          \else
            \@PackageError{TEST}{Failed: \A\space <> \B}\@ehc
407
408
409
       \endgroup
410
     }%
411
     \CheckSpace{%
       \UniqueCounterNew{foo}%
412
     }%
413
     \CheckValue{foo}{0}%
414
415
     \CheckSpace{%
       \UniqueCounterCall{foo}{\CheckCall}{1}%
416
417
418
     \CheckSpace{%
419
       \UniqueCounterCall{foo}{\CheckCall}{2}%
420
421
     \CheckValue{foo}{2}%
422 \endgroup
423 \csname @@end\endcsname\end
424 (/test3)
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

CTAN:macros/latex/contrib/oberdiek/uniquecounter.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.

¹ftp://ftp.ctan.org/tex-archive/

4.2 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/
```

4.3 Package installation

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

```
tex uniquecounter.dtx
```

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

```
\begin{array}{lll} \mbox{uniquecounter.sty} & \rightarrow \mbox{tex/generic/oberdiek/uniquecounter.sty} \\ \mbox{uniquecounter.pdf} & \rightarrow \mbox{doc/latex/oberdiek/uniquecounter-example.tex} \\ \mbox{odc/latex/oberdiek/uniquecounter-example.tex} \\ \mbox{test/uniquecounter-test1.tex} & \rightarrow \mbox{doc/latex/oberdiek/test/uniquecounter-test1.tex} \\ \mbox{test/uniquecounter-test2.tex} & \rightarrow \mbox{doc/latex/oberdiek/test/uniquecounter-test2.tex} \\ \mbox{test/uniquecounter-test3.tex} & \rightarrow \mbox{doc/latex/oberdiek/test/uniquecounter-test3.tex} \\ \mbox{uniquecounter.dtx} & \rightarrow \mbox{source/latex/oberdiek/uniquecounter.dtx} \\ \end{array}
```

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.

4.4 Refresh file name databases

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

4.5 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 uniquecounter.pdf unpack_files output .
```

Unpacking with LATEX. The .dtx chooses its action depending on the format:

plain-TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

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

```
latex \let\install=y\input{uniquecounter.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 pdfIATEX:

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

5 History

[2009/09/11 v1.0]

• First public version.

6 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; numbers in roman refer to the code lines where the entry is used.

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