The resizegather package

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Abstract

Equations that are too large are resized to fit the available space. The environment gather of package amsmath is supported. Also the environments equation and displaymath are redefined using gather and its starred version.

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1 Documentation

Sometimes an equation is just a little to large to fit in the line. And breaking the equation across lines might be worse than downscaling the equation. This package implements this for the environments gather and gather* of package amsmath. That package already measures the equations and simplifies the implementation of resizegather that only needs to hook into amsmath's code to add the resizing feature.

Resized equations are recorded in the <code>.log</code> file for small exceeds (default setting is smaller than five percent). Otherwise a warning is given.

Also environments equation and displaymath are supported by redefining them using gather and gather*.

^{*}Please report any issues at https://github.com/ho-tex/oberdiek/issues

\[and \] are not supported, because these macros are not in environment form that is required for amsmath. The environment body is collected first to be able to process the body twice for measuring first.

Also the environments using alignments are not supported. If a single equation line would be resized, the alignment would get lost. And resizing all equations of the alignment does not seem appropriate either.

1.1 Options

warningthreshold: Print a warning if the original equation line exceeds its available width by the given fraction. Default is 0.05: A warning is given if the equation is too large by five percent. Otherwise the exceed is recorded in the .log file only.

The next options are boolean options. They are enabled by value true or if no value is given. They are switched off by value false.

enable: The resize feature is active (default).

disable: The complementary option for enable, added for convenience: disable (or disable=true) is the same as enable=false.

equations: LATEX environments equation and displaymath environments are redefined. These equations are now using environment gather and gather*. This is the default.

The following table shows additional options if you want to have finer control for the redefined environments:

	Enviro	onments
Option	equation	displaymath
equations	gather	gather*
equation	gather	unchanged
displaymath	unchanged	gather*

If such an option is switched off, the original meaning of the affected environments is restored.

Options are evaluated in the following order:

- 1. Configuration file resizegather.cfg using \resizegathersetup if the file exists
- 2. Package options given for \usepackage.
- 3. Later calls of \resizegathersetup.

$\rule resize gather setup {\langle option \ list \rangle }$

The options are key value options. Boolean options are enabled by default (without value) or by using the explicit value true. Value false disable the option.

1.2 Options for packages amsmath or graphics

The package loads the package amsmath because is internally measures the equations first. Thus this package hooks into this code in order to resize the equations if they are too large. The resizing itself is done by \resizebox of package graphics. If you need special options for these packages, just load them first or use global options when appropriate. Example:

\usepackage[dvipdfm]{graphicx}% or graphics
\usepackage[fleqn]{amsmath}
\usepackage{resizegather}

2 Implementation

```
1 (*package)
Reload check, especially if the package is not used with IATEX.
 2 \begingroup\catcode61\catcode48\catcode32=10\relax%
     \catcode13=5 % ^^M
     \endlinechar=13 %
 4
    \catcode35=6 % #
 5
    \catcode39=12 % '
    \catcode44=12 % ,
    \catcode45=12 % -
    \catcode46=12 % .
10
    \catcode58=12 % :
11
    \catcode64=11 % @
12
    \catcode123=1 % {
    \catcode125=2 % }
13
    \expandafter\let\expandafter\x\csname ver@resizegather.sty\endcsname
14
    \ifx\x\relax % plain-TeX, first loading
15
    \else
16
       \def\empty{}%
17
       \ifx\x\empty % LaTeX, first loading,
18
19
         % variable is initialized, but \ProvidesPackage not yet seen
20
21
         \expandafter\ifx\csname PackageInfo\endcsname\relax
22
           \def\x#1#2{%}
             \immediate\write-1{Package #1 Info: #2.}%
23
           }%
24
         \else
25
           26
27
         \fi
         \x{resizegather}{The package is already loaded}%
28
29
         \aftergroup\endinput
30
31
     \fi
32 \endgroup%
Package identification:
33 \begingroup\catcode61\catcode48\catcode32=10\relax%
    \color= 13=5 \% ^M
34
35
     \endlinechar=13 %
     \catcode35=6 % #
36
     \catcode39=12 % '
37
    \colored{catcode40=12 \%} (
38
    \catcode41=12 % )
39
    \colone 12 \% ,
40
     \catcode45=12 % -
41
    \catcode46=12 % .
42
    \catcode47=12 % /
43
    \catcode58=12 % :
    \catcode64=11 % @
45
46
    \catcode91=12 % [
47
    \catcode93=12 % ]
48
    \catcode123=1 % {
49
     \catcode125=2 % }
     \expandafter\ifx\csname ProvidesPackage\endcsname\relax
50
       \def\x#1#2#3[#4]{\endgroup
51
         \immediate\write-1{Package: #3 #4}%
52
         \xdef#1{#4}%
53
       }%
54
55
56
       \def \x#1#2[#3] {\endgroup}
57
         #2[{#3}]%
         \ifx#1\@undefined
58
```

```
\xdef#1{#3}%
 59
 60
         \int x#1\relax
 61
           \xdef#1{#3}%
 62
         \fi
 63
 64
       }%
 65
     \fi
 66 \expandafter\x\csname ver@resizegather.sty\endcsname
 67 \ProvidesPackage{resizegather}%
     [2016/05/16 v1.3 Resize overly large equations (H0)]%
 68
 69 \end{catcode} 1 \catcode 48 \catcode 32 = 10 \end{catcode}
     \catcode13=5 % ^^M
 70
     \endlinechar=13 %
 71
 72
     \catcode123=1 % {
 73
     \catcode125=2 % }
     \catcode64=11 % @
 75
     \def\x{\endgroup
 76
       \expandafter\edef\csname ResizeGather@AtEnd\endcsname{%
         \endlinechar=\the\endlinechar\relax
 77
         \catcode13=\the\catcode13\relax
 78
         \catcode32=\the\catcode32\relax
 79
         \catcode35=\the\catcode35\relax
 80
         \catcode61=\the\catcode61\relax
 81
         \catcode64=\the\catcode64\relax
 82
         \catcode123=\the\catcode123\relax
 83
         \catcode125=\the\catcode125\relax
 84
 85
       }%
 86
    }%
 87 \x\catcode61\catcode48\catcode32=10\relax%
 88 \catcode13=5 % ^^M
 89 \endlinechar=13 %
 90 \catcode35=6 % #
91 \catcode64=11 % @
92 \catcode123=1 % {
 93 \catcode125=2 % }
 94 \def\TMP@EnsureCode#1#2{%
     \edef\ResizeGather@AtEnd{%
 96
       \ResizeGather@AtEnd
 97
       \catcode#1=\the\catcode#1\relax
     }%
 98
     \catcode#1=#2\relax
99
100 }
101 \TMP@EnsureCode{10}{12}% ^^J
102 \TMP@EnsureCode{33}{12}% !
103 \TMP@EnsureCode{36}{3}%$
104 \TMP@EnsureCode{38}{4}% &
105 \TMP@EnsureCode{39}{12}% '
106 \TMP@EnsureCode{40}{12}% (
107 \TMP@EnsureCode{41}{12}% )
108 \TMP@EnsureCode{42}{12}% *
109 \TMP@EnsureCode{43}{12}% +
110 \TMP@EnsureCode{44}{12}% ,
111 \TMP@EnsureCode{45}{12}% -
112 \TMP@EnsureCode{46}{12}% .
113 \TMP@EnsureCode{47}{12}% /
114 \TMP@EnsureCode{58}{12}% :
115 \TMP@EnsureCode{59}{12}%;
116 \TMP@EnsureCode{60}{12}% <
117 \TMP@EnsureCode{62}{12}% >
118 \TMP@EnsureCode{63}{12}% ?
119 \TMP@EnsureCode{91}{12}% [
120 \TMP@EnsureCode{93}{12}% ]
```

```
121 \TMP@EnsureCode{94}{7}% ^ (superscript)
122 \TMP@EnsureCode{96}{12}% '
123 \edef\ResizeGather@AtEnd{\ResizeGather@AtEnd\noexpand\endinput}
124 \RequirePackage{kvoptions}[2009/12/04]
125 \SetupKeyvalOptions{%
          family=resizegather,%
           prefix=ResizeGather@,%
127
128 }
129 \@for\ResizeGather@option:=%
           centertags,%
130
           tbtags,%
131
132
          sumlimits,%
          nosumlimits,%
133
          intlimits,%
134
         nointlimits,%
135
          nonamelimits,%
136
137
          leqno,%
          reqno,%
138
139
          fleqn%
140 \do{%
            \edef\ResizeGather@temp{%
141
142
                \noexpand\DeclareVoidOption{\ResizeGather@option}{%
143
                     \noexpand\PassOptionsToPackage{amsmath}{\ResizeGather@option}%
144
                \noexpand\AtEndOfPackage{%
145
                    \noexpand\DisableKeyvalOption[%
146
                         action=error,%
147
                         package=resizegather,%
148
                    ]{resizegather}{\ResizeGather@option}%
149
150
151
           }%
152
            \ResizeGather@temp
153 }
154 \@for\ResizeGather@option:=%
155 draft,%
         final.%
156
          hiderotate,%
157
         hidescale,%
158
         hiresbb,%
159
         demo,%
160
           dvips,xdvi,dvipdf,dvipdfm,dvipdfmx,pdftex,dvipsone,%
161
           dviwindo,emtex,dviwin,pctexps,pctexwin,pctexhp,pctex32,%
          truetex,tcidvi,vtex,oztex,textures,xetex%
163
164 \do{%
165
            \edef\ResizeGather@temp{%
                \noexpand\DeclareVoidOption{\ResizeGather@option}{%
166
                     \verb|\noexpand| PassOptionsToPackage{graphics}{\noexpand} \label{passOption} % ToPackage{graphics} $$ \noexpand \end{topsi} $$ $$ \noexpand \end{topsi} $$ \noexpand \end{to
167
168
                \noexpand\AtEndOfPackage{%
169
                     \noexpand\DisableKeyvalOption[%
170
                         action=error,%
171
                         package=resizegather,%
172
                    ]{resizegather}{\ResizeGather@option}%
173
174
                }%
           }%
175
176
            \ResizeGather@temp
177 }
178 \DeclareBoolOption[true] {enable}
179 \DeclareComplementaryOption{disable}{enable}
180 \DeclareStringOption[.05]{warningthreshold}
181 \newif\ifResizeGather@NeedInit
182 \DeclareBoolOption[true] {equations}
```

```
183 \DeclareBoolOption[true] {equation}
                        184 \DeclareBoolOption[true] {displaymath}
                        185 \AddToKeyvalOption*{equations}{%
                             \ResizeGather@NeedInittrue
                             \ifResizeGather@equations
                        187
                        188
                               \ResizeGather@equationtrue
                        189
                               \ResizeGather@displaymathtrue
                        190
                             \else
                               \ResizeGather@equationfalse
                        191
                               \ResizeGather@displaymathfalse
                        192
                             \fi
                        193
                        194 }
                        195 \AddToKeyvalOption*{equation}{%
                             \ResizeGather@NeedInittrue
                        198 \AddToKeyvalOption*{displaymath}{%
                             \ResizeGather@NeedInittrue
                        199
                        200 }
    \resizegathersetup
                        201 \newcommand*{\resizegathersetup}[1]{%
                             \ResizeGather@NeedInitfalse
                        202
                             \setkeys{resizegather}{#1}%
                        203
                        204
                             \ifResizeGather@NeedInit
                        205
                               \ResizeGather@init
                        206
                             \fi
                        207 }
                        208 \let\ResizeGather@init\relax
                        209 \InputIfFileExists{resizegather.cfg}{}{}%
                        210 \ProcessKeyvalOptions*\relax
                        211 \RequirePackage{amsmath}
                        212 \RequirePackage{graphics}
\ResizeGather@redefine
                        213 \def\ResizeGather@redefine#1#2#3#4#5{%
                             \csname ifResizeGather@#1\endcsname
                        215
                               \@ifundefined{ResizeGather@org@#2}{%
                                  \expandafter\let\csname ResizeGather@org@#2\expandafter\endcsname
                        216
                                                  \csname #2\endcsname
                        217
                        218
                               \@ifundefined{ResizeGather@org@#3}{%
                        219
                                  \expandafter\let\csname ResizeGather@org@#3\expandafter\endcsname
                        220
                        221
                                                  \csname #3\endcsname
                        222
                               \expandafter\edef\csname #2\endcsname{%
                        223
                        224
                                  \expandafter\noexpand\csname#4\endcsname
                        225
                        226
                               \expandafter\edef\csname #3\endcsname{%
                        227
                                 \expandafter\noexpand\csname#5\endcsname
                               }%
                        228
                             \else
                        229
                               \@ifundefined{ResizeGather@org@#2}{}{%
                        230
                        231
                                  \expandafter\let\csname #2\expandafter\endcsname
                        232
                                                  \csname ResizeGather@org@#2\endcsname
                                  \expandafter\let\csname #3\expandafter\endcsname
                        233
                                                  \csname ResizeGather@org@#3\endcsname
                        234
                               }%
                        235
                        236
                             \fi
                        237 }
```

\ResizeGather@init

```
\ResizeGather@redefine{equation}{equation}%
                             239
                                     {gather}{endgather}%
                             240
                                   \ResizeGather@redefine{displaymath}{displaymath}{enddisplaymath}%
                             241
                             242
                                     {gather*}{endgather*}%
                             243 }
                             244 \ResizeGather@init
 \ResizeGather@ResizeGather
                             245 \def\ResizeGather@ResizeGather{%
                                   \ifResizeGather@enable
                             247
                                     \dimen@\displaywidth
                             248
                                     \if@fleqn
                                       \advance\dimen@-\@mathmargin
                             249
                                     \fi
                             250
                                     \ifdim\wdz@>\dimen@
                             251
                                       \begingroup
                             252
                                         \advance\dimen@ -\wdz@
                             253
                                         \dimen@ -\dimen@
                             254
                                         \ifdim\ResizeGather@warningthreshold\wdz@>\dimen@
                             255
                                           \expandafter\PackageInfo
                             256
                             257
                                         \else
                             258
                                           \expandafter\PackageWarning
                             259
                                         \fi
                             260
                                         {resizegather}{%
                                           Equation line \the\row@\space is too large %
                             261
                             262
                                           by \the\dimen@\MessageBreak
                                           in environment '\@currenvir'%
                             263
                                         }%
                             264
                             265
                                       \endgroup
                                       \setboxz@h to\dimen@{%
                             266
                                         \resizebox{\dimen@}{!}{\boxz@}%
                             267
                             268
                                       }%
                             269
                             270
                                     \fi
                                   \fi
                             271
                             272 }
         \calc@shift@gather
                             273 \expandafter\def\expandafter\calc@shift@gather\expandafter{%
                                   \expandafter\ResizeGather@ResizeGather
                             275
                                   \calc@shift@gather
                             276 }
\ResizeGather@org@gmeasure@
                             277 \let\ResizeGather@org@gmeasure@\gmeasure@
                  \gmeasure@
                             278 \def\gmeasure@#1{%
                                   \verb|\ResizeGather@org@gmeasure@{#1}||
                             279
                                   \ifResizeGather@enable
                             280
                                     \ifdim\totwidth@>\displaywidth
                             281
                                       \totwidth@=\displaywidth
                             282
                                     \fi
                             283
                             284
                                  \fi
                             285 }
                             286 \ResizeGather@AtEnd%
                             287 (/package)
```

238 \def\ResizeGather@init{%

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

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

CTAN:macros/latex/contrib/oberdiek/resizegather.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:pkg/tds). 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
```

3.3 Package installation

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

```
tex resizegather.dtx
```

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

```
resizegather.sty \to tex/latex/oberdiek/resizegather.sty resizegather.pdf \to doc/latex/oberdiek/resizegather.pdf resizegather.dtx \to source/latex/oberdiek/resizegather.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 T_EX distribution (T_EX Live, MiKT_EX, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run texhash or mktexlsr.

3.5 Some details for the interested

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{resizegather.dtx}
```

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

¹CTAN:pkg/resizegather

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

4 Acknowledgement

Dieter Jurzitza: He wanted the resizing feature at the TEX table in Karlsruhe of December 2009. Thus this package is a kind of Christmas present.

5 History

[2009/12/04 v1.0]

• The first version.

[2009/12/05 v1.1]

[2010/03/01 v1.2]

• TDS location moved from 'generic' to 'latex'.

[2016/05/16 v1.3]

• Documentation updates.

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; plain numbers refer to the code lines where the entry is used.

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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\setboxz@h
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\setboxz@h
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\setboxz@h