The tabulary package*

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1 User Documentation

 $\begin{tabulary}{\langle length\rangle}{\langle pream\rangle} \dots \end{tabulary}$

The rather daft name may change in a later release but it is a pun on tabularx, which itself was a pun on tabular*...

These environments work pretty much like the standard tabular environment (or more correctly, the enhanced version from the array package) except that there are more possibilities for the column types.

LCRJ These new 'uppercase' column types are only activated in the tabulary environment. In order to make the total table width equal to \(\lambda length \rangle\$ the LCRJ columns are converted to p columns (with \rangle raggedright, \centering, or \rangle raggedleft or normal justification respectively applied). The width of these converted columns is proportional to the natural width of the longest entry in each column.

To stop very narrow columns being too 'squeezed' by this process any columns that are narrower than \tymin are set to their natural width. This length may be set with \setlength and is arbitrarily initialised to 10 pt. (If you know that a column will be narrow, it may be preferable to use, say, c rather than C so that the tabulary mechanism is never invoked on that column.)

Similarly one very large entry can force its column to be too wide. So to prevent this, all columns with natural length greater than \tymax are set to the same width (with the proportion being taken as if the natural length was equal to \tymax). This is initially set to twice the text width..

Narrow p columns are sometimes quite hard to set, and so you may redefine the command \tyformat to be any declarations to make just after the \centering or \ragged... declaration. By default it redefines \everypar to insert a zero space at the start of every paragraph, so the first word may be hyphenated. (See DogBook).

As the environment makes a standard LATEX box, it will be indented by the paragraph indent at the start of a paragraph, and so will not fit on a line if

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given argument \textwidth unless it is preceded by \noindent or is in a center environment or some other environment with zero paragraph indent.

2 Features

You can use \multicolumn but if the multicolumn text turns out to be longer than the final calculated widths of the columns that it spans, then the final table will be too wide.

\verb doesnt work. (except in restricted version as in tabularx)

The whole table is evaluated twice, so take care with some TEX constructions that may have side effects like writing to files.

3 Options

The following package option is defined:

debugshow Causes a lot of stuff to appear on the terminal. I find this invaluable, you may find it less so.

4 Examples

		With C	columns	
1	the rain in spain	(an @ expr.)	the rain in spain falls	mainly on the
	falls mainly on th	e	plain the rain in spain	falls mainly on
	plain		the plain	1
a	b	(an @ expr.)	\mathbf{c}	
a	b b	(an @ expr.)	сс	
a				
		With I	columns	
1	the rain in spai		the rain in spain falls	mainly on the
	falls mainly on th		plain the rain in spain	
	plain		the plain	J
a	b	(an @ expr.)		
a	b b	(an @ expr.)		
a		(dir c cripi.)		
α				
	With L,	R and C colum	nns, and a \multicolumn	n
1	the rain in spain	the rain in spa	ain falls mainly on	and now for
	falls mainly on	the plain the	rain in spain falls	something
	the plain	mainly on the	plain	completely
				different
X	son	ne multicolumn	text across columns 2-4	1
a	b	c		d
a	b b	сс		d d
_				

The following examples attempt to show the effect of the \tymin and \tymax parameters. One should also perhaps note that \tymax refers to the total column width (inluding any inter-column space, rules etc) but \tymin just refers to the width of the column entry (like the argument to the standard p column).

\tymin=0pt

\tymax=\maxdimen

Note how the first column is 'squeezed'. In fact it is in such a narrow column that even 'a' produces an overfull box warning!

a b	ссссс	
ь	ссссс	dddddddddddddddddd
b	ccccc	d d d d d d d d d d d d d d d d
b	ccccc	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
11 1	ccccc	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
11 1	ccccc	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	сс	d d d d d d d

\tymin=20pt

\tymax=\maxdimen

Here increase \tymin so that columns b and a are not so narrow. 'a' is set to its natural width, and 'b' is set to \tymin.

a bbb	сссс	d d d d d d d d d d d d d d d
ь	сссс	d d d d d d d d d d d d d d d
	сссс	d d d d d d d d d d d d d d d
	сссс	d d d d d d d d d d d d d d d
	сссс	d d d d d d d d d d d d d d d
	сссс	d d d d d d d d d d d d d d d
	сссс	d d d d d d d d d d d d d d d
	сссс	d d d d d d d

\tymin=20pt

\tymax=200pt

In the previous example, the large d column dominated the table, being a lot wider than the c column. By reducing \tymax can limit the width of column d producing more even column widths, but now producing an entry for d that is longer than that for c.

a	ььь	cccccccccc	ddddddddddd
	ь	cccccccccc	ddddddddddd
		ccccccccc	dddddddddd
			dddddd

5 The Code

31

\fi}%

```
1 (*package)
                  2 \RequirePackage{array}
                  3 \cdot Z=14
                  4 \DeclareOption{debugshow}{\catcode'\Z=9\relax}
                  5 \ProcessOptions
\arraybackslash Borrowed from tabularx.
                  6 \def\arraybackslash{\let\\=\@arraycr}
                Bug fixed version from December 1995 LATEX release. Old bug going back to
  \0finalstrut
                 IAT<sub>F</sub>X2.09...
                  7 \def\@finalstrut#1{%
                     \unskip\ifhmode\nobreak\fi\vrule\@width\z@\@height\z@\@depth\dp#1}
      \TY@count
                 Counter so that we know what column we are hacking around in.
                  9 \newcount\TY@count
      \tabulary Top level macro for standard form.
                 10 \def\tabulary{%
                     \let\TY@final\tabular
                     \let\endTY@final\endtabular
                     \TY@tabular}
                Looks a lot like tabularx at this stage. Grab everything into a token register.
   \TY@tabular
                 14 \def\TY@tabular#1{%
                     \edef\TY0{\@currenvir}%
                     At this point need to save locally things that tabulary will globally mess up. These
                 are restored at the end of the environment.
                     \@ovxx\TY@linewidth
                 18
                     \@ovyy\TY@tablewidth
                 19
                     \count@\z@
                     \@tempswatrue
                 21
                     \@whilesw\if@tempswa\fi{%
                 ^{22}
                     \advance\count@\@ne
                     \expandafter\ifx\csname TYOF\the\count@\endcsname\relax
                 23
                 ^{24}
                       \@tempswafalse
                 25
                     \else
                       \expandafter\let\csname TY@SF\the\count@\expandafter\endcsname
                 26
                 27
                                         \csname TY@F\the\count@\endcsname
                 28
                        \global\expandafter\let\csname TY@F\the\count@\endcsname\relax
                       \expandafter\let\csname TY@S\the\count@\expandafter\endcsname
                 29
                                         \csname TY@\the\count@\endcsname
                 30
```

```
\global\TY@count\@ne
               32
                      \TY@width\xdef{0pt}%
               33
               34
                      \global\TY@tablewidth\z@
               35
                      \global\TY@linewidth#1\relax
               36 Z\message{^^J^^JTable^^J%
               37 Z
                           Target Width: \the\TY@linewidth^^J%
               38 Z
                           \string\tabcolsep: \the\tabcolsep\space
               39 Z
                           \string\arrayrulewidth: \the\arrayrulewidth\space
               40 Z
                           \string\doublerulesep: \the\doublerulesep^^J%
               41 Z
                           \string\tymin: \the\tymin\space
                           \string\tymax: \the\tymax^^J}%
               42 Z
               Placing this here means that nested tabulars will get this definition but that's
               probably OK, the extra code for LCR etc shouldn't do any harm
                      \let\@classz\TY@classz
                      \let\verb\TX@verb
                      \toks@{}\TY@get@body}
               45
\TY@@mkpream
               Saved version.
               46 \let\TY@@mkpream\@mkpream
 \TY@mkpream
              TY version.
               47 \def\TY@mkpream{%
               48
                      \def\@addamp{%
                        \if@firstamp \@firstampfalse \else
               49
                        \global\advance\TY@count\@ne
                        \edef\@preamble{\@preamble &}\fi
                        \TY@width\xdef{0pt}}%
               52
                      \def\@acol{%
               53
                        \TY@subwidth\col@sep
               54
                        \@addtopreamble{\hskip\col@sep}}%
               55
               56
                      \let\@arrayrule\TY@arrayrule
                      \let\@classvi\TY@classvi
               57
                      \def\@classv{\save@decl
               58
                        \expandafter\NC@ecs\@nextchar\extracolsep{}\extracolsep\@@@
               59
                        \sbox\z@{\d@llarbegin\@nextchar\d@llarend}%
               60
                        TY@subwidth{\wd\z0}%
               61
               62
                        \@addtopreamble{\d@llarbegin\the@toks\the\count@\relax\d@llarend}%
               63
                        \prepnext@tok}%
               64
                    \global\let\@mkpream\TY@@mkpream
                    \TY@@mkpream}
\TY@arrayrule Pull this out so the colorbbl support below can redefine
               66 \def\TY@arrayrule{%
                   \TY@subwidth\arrayrulewidth
                   \@addtopreamble \vline}
```

\TY@classvi Pull this out so the colortbl support below can redefine

- 69 \def\TY@classvi{\ifcase \@lastchclass
- 70 \@acol \or
- 71 \TY@subwidth\doublerulesep
- 72 \@addtopreamble{\hskip \doublerulesep}\or
- 73 \@acol \or
- 74 \@classvii
- 75 \fi}

\TYQtab First run a tabular with all the column types fudged so that the widths of any rules or @-expresions are noted.

- 76 \def\TY@tab{%
- 77 \setbox\z@\hbox\bgroup

Support displaymath by making it non-display in the first pass. (Other display environments defined in terms of \$\$ would need to be added here by packages that define them.)

- 78 $\left[\right]$
- 79 \let\equation\$\let\endequation\$%
- 80 \col@sep\tabcolsep
- 81 \let\d@llarbegin\begingroup\let\d@llarend\endgroup
- 82 \let\@mkpream\TY@mkpream
- 83 \def\multicolumn##1##2##3{\multispan##1\relax}%
- 84 \CT@start\TY@tabarray}

\TY@tabarray

- 85 \def\TY@tabarray{\@ifnextchar[{\TY@array}{\@array[t]}} 86 \def\TY@array[#1]{\@array[t]}
- \TY@width Just a shorthand to access a column width macro.
 - 87 \def\TY@width#1{%
 - 88 \expandafter#1\csname TY@\the\TY@count\endcsname}
- \TY@subwidth Subtract a width from the current column width and also The total line table width and the target line width.
 - 89 \def\TY@subwidth#1{%
 - 90 \TY@width\dimen@
 - 91 \advance\dimen@-#1\relax
 - 92 $TY@width\xdef{\theta}%$
 - 93 \global\advance\TY@linewidth-#1\relax}
- \endtabulary First run one modified tabular, making sure to add a blank row (cf longtable) to the end in case the user supplied last row is hidden by an hline or something.
 - 94 \def\endtabulary{%
 - $95 \ \gdef\@halignto{}\%$
 - 96 \expandafter\TY@tab\the\toks@
 - 97 \crcr\omit

```
{\xdef\TY@save@row{}%
  98
  99
                     \loop
                  \advance\TY@count\m@ne
100
101
                  \ifnum\TY@count>\z@
                  \xdef\TY@save@row{\TY@save@row&\omit}%
102
103
                  \repeat}\TY@save@row
             \verb|\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\colo
104
                  \unskip\global\setbox1=\lastbox}\egroup
105
  Check that \tymin is not too large.
             \dimen@\TY@linewidth
106
             \divide\dimen@\TY@count
107
108
             \ifdim\dimen@<\tymin
109
                  \TY@warn{tymin too large (\the\tymin), resetting to \the\dimen@}%
110
                  \tymin\dimen@
111
  Now take the last row apart, cf longtable or appendix D.
             \t \ensuremath{$\mathbb{\wline}$} \box{\unhbox$\ensuremath{\wline}$} \ensuremath{\wline}$
112
113
                  \loop
114 \@tempdima=\lastskip
115 \ifdim\@tempdima>\z@
                  116 Z
117
                \global\advance\TY@linewidth-\@tempdima
118 \fi
119
                  \unskip
                  \setbox\tw@=\lastbox
120
                  \ifhbox\tw@
121
122 Z
                       \message{Col \the\TY@count: Initial=\the\wd\tw@\space}%
123
                       \ifdim\wd\tw@>\tymax
124
                            \wd\tw@\tymax
                            \message{> max\space}%
125 Z
                       \else
126 Z
127 7.
                            \message{ \@spaces\space}%
                       \fi
128
129
            \TY@width\dimen@
130 Z \message{\the\dimen@\space}%
             \advance\dimen@\wd\tw@
131
132 Z \message{Final=\the\dimen@\space}%
133
                \TY@width\xdef{\the\dimen@}%
134
                       \ifdim\dimen@<\tymin
135 Z
                               \message{< tymin}%
136
                               \global\advance\TY@linewidth-\dimen@
                              \verb|\expandafter\xdef\csname| TY@F\the\TY@count\endcsname|
137
                                                                                                                                                     {\the\dimen@}%
138
                         \else
139
140
                       \expandafter\ifx\csname TY@F\the\TY@count\endcsname\z@
141 \,\, {\hbox{\bf Z}}
                               \message{***}%
                              \global\advance\TY@linewidth-\dimen@
142
143
                              \expandafter\xdef\csname TY@F\the\TY@count\endcsname
144
                                                                                                                                                     {\the\dimen@}%
```

```
149
                                                                                    \maxdimen
                        fifi
             150
                        \advance\TY@count\m@ne
              151
                     \repeat}%
              152
                  A bit cheap just doing this four times, but prevents any possibilities of loop-
              ing...
                     \TY@checkmin
              153
              154
                     \TY@checkmin
                     \TY@checkmin
              155
                     \TY@checkmin
              156
              Reset the counter.
              157
                     \TY@count\z@
                  Reset the LCRJ column definition to set paragraphs to the calculated widths.
                     \let\TY@box\TY@box@v
             158
                  Run a second tabular, and for the star form, unbox it.
                   {\expandafter\TY@final\the\toks@\endTY@final}%
                  Finish off by restoring global commands.
              160
                   \count@\z@
                   \@tempswatrue
              161
                   \verb|\display| if @tempswa\fi{%}|
             162
              163
                   \advance\count@\@ne
             164
                   \expandafter\ifx\csname TY@SF\the\count@\endcsname\relax
                     \@tempswafalse
              165
              166
              167
                     \global\expandafter\let\csname TY@F\the\count@\expandafter\endcsname
                                     \csname TY@SF\the\count@\endcsname
              168
                     \global\expandafter\let\csname TY@\the\count@\expandafter\endcsname
              169
                                     \csname TY@S\the\count@\endcsname
              170
                   fi}%
              171
                   \TY@linewidth\@ovxx
              172
                   \TY@tablewidth\@ovyy
             173
                     \ifnumO='{\fi}}
              Check that no column is squeezed below \tymin. If it is, fix the width of that
\TY@checkmin
              column to \tymin and try again re-computing the ratio. (The new ratio will be
              smaller, and may squeeze yet more rows, so need to iterate this, currently just do
              it four times.)
              175 \def\TY@checkmin{%
                   \let\TY@checkmin\relax
              177 \ifdim\TY@tablewidth>\z@
                   \Gscale@div\TY@ratio\TY@linewidth\TY@tablewidth
              179 % \changes{v0.9}{2008/12/01}
```

145

148

146 **Z** 147 \else

\message{> tymin}%

\global\advance\TY@tablewidth\dimen@

\global\expandafter\let\csname TY@F\the\TY@count\endcsname

```
{\cs{TY@linewidth}}
               180 %
               181 \ifdim\TY@tablewidth <\TY@linewidth
                     \def\TY@ratio{1}%
               183 \fi
               184 \else
                   \TY@warn{No suitable columns!}%
                    \def\TY@ratio{1}%
               186
               187 \fi
               188 \count@\z@
               189 Z \message{^^JLine Width: \the\TYClinewidth,
                                 Natural Width: \the\TY@tablewidth,
               190 Z
               191 Z
                                 Ratio: \TY@ratio^^J}%
               192 \@tempdima\z@
               193 \loop
               194 \ifnum\count@<\TY@count
               195 \advance\count@\@ne
                    \ifdim\csname TY@F\the\count@\endcsname>\tymin
               196
                      \dimen@\csname TY@\the\count@\endcsname
               197
                      \dimen@\TY@ratio\dimen@
               198
               199
                      \ifdim\dimen@<\tymin
                         \message{Column \the\count@\space ->}%
               200 Z
               201
                         \global\expandafter\let\csname TY@F\the\count@\endcsname\tymin
               202
                         \global\advance\TY@linewidth-\tymin
                         \global\advance\TY@tablewidth-\csname TY@\the\count@\endcsname
               203
                        \verb|\label{tycheckmin}| TY@@checkmin | \\
               204
                      \else
               205
                         \expandafter\xdef\csname TY@F\the\count@\endcsname{\the\dimen@}%
               206
               207
                         \advance\@tempdima\csname TY@F\the\count@\endcsname
               208
                      \fi
               209
                    \fi
               210 Z \dimen@\csname TY@F\the\count@\endcsname\message{\the\dimen@, }%
               212 Z \message{^^JTotal:\the\@tempdima^^J}%
               213 }
\TY@@checkmin Saved value
               214 \left( TY@@checkmin \right) TY@checkmin
 TYClinewidth Stores the target width.
               215 \newdimen\TY@linewidth
    \tyformat What to do with columns
               {\tt 216 \ def\ tyformat{\ everypar{\{\ nobreak\ hskip\ z@skip\}\}}}
        tymin Columns narrower than this are not fudged.
               217 \newdimen\tymin
               218 \text{\tymin=10pt}
```

```
one particularly long entry hijacking the entire table.
            219 \newdimen\tymax
            220 \tymax=2\textwidth
\@testpatch Also add LCRJ although these don't do anything useful except in tabulary.
            221 \def\@testpach{\@chclass
            222 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
                 \ifnum \@lastchclass=7 5 \else
            223
                  \ifnum \@lastchclass=8 \tw@ \else
            224
                   \ifnum \@lastchclass=9 \thr@@
            225
            226
                  \else \z@
            227
                  \ifnum \@lastchclass = 10 \else
            228
                  \edef\@nextchar{\expandafter\string\@nextchar}%
            229
                  \@chnum
            230
                  \if \@nextchar c\z@ \else
                   \if \Onextchar l\One \else
            231
                    \if \@nextchar r\tw@ \else
            232
                     \if \@nextchar s6 \else
            233 %
                  \if \@nextchar C7 \else
            234
                   \if \@nextchar L8 \else
            235
            236
                    \if \@nextchar R9 \else
            237
                    \if \@nextchar J10 \else
                  \z@ \@chclass
            238
                  \if\@nextchar |\@ne \else
            239
            240
                   \if \Onextchar !6 \else
            241
                    \if \@nextchar @7 \else
            242
                     \if \@nextchar <8 \else
                      \if \@nextchar >9 \else
            243
                 10
            244
                 \@chnum
            245
                 \if \@nextchar m\thr@@\else
            246
                  \if \@nextchar p4 \else
            247
                   \if \@nextchar b5 \else
            248
                  \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi
            249
            250 %
                   \fi
                    251
 \TY@classz Here hacked around without the respect Frank's code deserves...
            252 \def\TY@classz{%
            253
                 \@classx
                 \@tempcnta\count@
            254
                 \ifx\TY@box\TY@box@v
            255
            256
                   \global\advance\TY@count\@ne
```

\fi

\let\centering c%

\let\raggedright\noindent
\let\raggedleft\indent

\let\arraybackslash\relax

257

258 259

260

261

tymin Columns wider than this are all treated alike and set to the same width, to stop

```
\prepnext@tok
262
     \infty \ifnum\@chnum<4
263
       \global\expandafter\let\csname TY@F\the\TY@count\endcsname\z@
264
265
     \fi
^{266}
     \ifnum\@chnum=6
       \global\expandafter\let\csname TY@F\the\TY@count\endcsname\z@
267
     \fi
268
     \@addtopreamble{%
269
       \ifcase\@chnum
270
         \hfil \d@llarbegin\insert@column\d@llarend \hfil \or
271
         \kern\z@
272
          \d@llarbegin \insert@column \d@llarend \hfil \or
273
         \hfil\kern\z@ \d@llarbegin \insert@column \d@llarend \or
274
         $\vcenter\@startpbox{\@nextchar}\insert@column \@endpbox $\or
275
276
         \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
         \vbox \@startpbox{\@nextchar}\insert@column \@endpbox \or
277
         \d@llarbegin \insert@column \d@llarend \or% dubious "s" case
278
         \TY@box\centering\or
279
         \TY@box\raggedright\or
280
         \TY@box\raggedleft\or
281
282
         \TY@box\relax
283
       \fi}\prepnext@tok}
```

\TY@box The argument is \centering etc depending on whether LCRJ is used. However in this version the entries are set in horizontal mode with definitions mimicing the standard lcr columns. Later \TY@box will be redefined to \TY@box@v which really sets the entries in vertical mode.

```
284 \def\TY@box#1{%
285
    \ifx\centering#1%
286
         \hfil \d@llarbegin\insert@column\d@llarend \hfil \else
287
     \ifx\raggedright#1%
           \kern\z0%<<<<<<<<
288
289
         \d@llarbegin \insert@column \d@llarend \hfil \else
290
     \ifx\raggedleft#1%
         \hfil\kern\z@ \d@llarbegin \insert@column \d@llarend \else
291
292
     \ifx\relax#1%
          \d@llarbegin \insert@column \d@llarend
293
     \fi \fi \fi \fi}
294
```

\TY@box@v The version to use in a final run, set the CLRJ columns in a parbox of the appropriate width.

```
295 \def\TY@box@v#1{%
296 \vtop \@startpbox{\csname TY@F\the\TY@count\endcsname}%
297 #1\arraybackslash\tyformat
298 \insert@column\@endpbox}
```

\TY@tablewidth The natural width of the table on the first run.

 $299 \mbox{ \newdimen\TYOtablewidth}$

```
300 \def\Gscale@div#1#2#3{%
                                              \setlength\dimen@{#3}%
                                 302
                                              \index(0) = \index(0)
                                 303
                                                   \PackageError{graphics}{Division by 0}\@eha
                                 304
                                                   \dimen@#2%
                                              \fi
                                 305
                                              306
                                              \setlength\dimen@{#2}%
                                 307
                                              \count@65536\relax
                                 308
                                              \ifdim\dimen@<\z@
                                 309
                                 310
                                                   \dimen@-\dimen@
                                 311
                                                   \count@-\count@
                                 312
                                             \fi
                                 313
                                             \loop
                                 314
                                                   \  \in \ \end{area} \ \in \ \end{area} \ \
                                 315
                                                        \dimen@\tw@\dimen@
                                                         \divide\count@\tw@
                                 316
                                 317
                                              \repeat
                                              \dimen@ii=\@tempd\relax
                                 318
                                              \divide\dimen@ii\count@
                                 319
                                 320
                                              \divide\dimen@\dimen@ii
                                             \edef#1{\strip@pt\dimen@}}
\TY@get@body Place all tokens as far as the first \end into a token register.
                                                                                                                                                                                                       Then call
                                   \TY@find@end to see if we are at \end{tabulary}.
                                 322 \leq TY@get@body#1\end
                                             {\tt \{\toks@\expandafter{\tt the\toks@#1}\TY@find@end}}
\TY@find@end If we are at \end{tabulary}, call \end{tabulary}, otherwise add \end{...} to
                                   the register, and call \TY@get@body again.
                                 324 \left( \frac{1}{\%} \right)
                                 325
                                             \def\@tempa{#1}%
                                              326
                                              \else\toks@\expandafter
                                                   {\the\toks@\end{#1}}\expandafter\TY@get@body\fi}
          \TY@warn Warning messages.
                                 329 \def\TY@warn{%
                                            \PackageWarning{tabulary}}
                                 331 \catcode'\Z=11
                                           colortbl support.
                                 332 \AtBeginDocument{
                                 333 \@ifpackageloaded{colortbl}{%
                                 334 \expandafter\def\expandafter\@mkpream\expandafter#\expandafter1%
                                 335
                                              \expandafter{%
                                                   \expandafter\let\expandafter\CT@setup\expandafter\relax
                                 336
```

\Gscale@div Stolen from graphics package.

```
337
       \expandafter\let\expandafter\CT@color\expandafter\relax
       \expandafter\let\expandafter\CT@do@color\expandafter\relax
338
       \expandafter\let\expandafter\color\expandafter\relax
339
340
       \expandafter\let\expandafter\CT@column@color\expandafter\relax
341
       \expandafter\let\expandafter\CT@row@color\expandafter\relax
       \expandafter\let\expandafter\CT@cell@color\expandafter\relax
342
       \@mkpream{#1}}
343
344 \verb|\let\TY@@mkpream\@mkpream|
345 \def\TY@classz{%
     \@classx
346
     \@tempcnta\count@
347
     \ifx\TY@box\TY@box@v
348
       \global\advance\TY@count\@ne
349
     \fi
350
351
     \let\centering c%
352
     \let\raggedright\noindent
     \let\raggedleft\indent
353
     \let\arraybackslash\relax
354
     \prepnext@tok
355
356 \verb|\expandafter\CTCextract\the\toks\Ctempcnta\columncolor!\Cnil|
357
     \ifnum\@chnum<4
       \global\expandafter\let\csname TY@F\the\TY@count\endcsname\z@
358
359
     \ifnum\@chnum=6
360
361
       \global\expandafter\let\csname TY@F\the\TY@count\endcsname\z@
362
363
     \@addtopreamble{%
       \setbox\z@\hbox\bgroup\bgroup
364
       \ifcase\@chnum
365
         \hskip\stretch{.5}\kern\z@
366
         \d@llarbegin\insert@column\d@llarend\hskip\stretch{.5}\or
367
         \kern\z@%<<<<<<<
368
369
          \d@llarbegin \insert@column \d@llarend \hfill \or
370
         \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
371
         $\vcenter\@startpbox{\@nextchar}\insert@column \@endpbox $\or
372
         \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
373
         \vbox \@startpbox{\@nextchar}\insert@column \@endpbox \or
         \d@llarbegin \insert@column \d@llarend \or% dubious s case
374
         \TY@box\centering\or
375
         \TY@box\raggedright\or
376
         \TY@box\raggedleft\or
377
         \TY@box\relax
378
379
       \fi
    \egroup\egroup
380
381 \begingroup
     \CT@setup
382
383
     \CT@column@color
384
     \CT@row@color
385
     \CT@cell@color
     \CT@do@color
386
```

```
387 \endgroup
                     \@tempdima\ht\z@
         388
                     \advance\@tempdima\minrowclearance
         390
                     \vrule\@height\@tempdima\@width\z@
         391 \ \n
         392 }\prepnext@tok}%
         393
                 \def\TY@arrayrule{%
         394
                   \TY@subwidth\arrayrulewidth
         395
                   \@addtopreamble{{\CT@arc@\vline}}}%
                 \def\TY@classvi{\ifcase \@lastchclass
         396
         397
                   \@acol \or
                   \TY@subwidth\doublerulesep
         398
                   \ifx\CT@drsc@\relax
         399
                     \@addtopreamble{\hskip\doublerulesep}%
         400
         401
                     \@addtopreamble{{\CT@drsc@\vrule\@width\doublerulesep}}%
         402
         403
                   \fi\or
                   \@acol \or
         404
                   \@classvii
         405
                   \fi}%
         406
         407 }{%
         408 \text{CT@start}\
         409 }
          end of at begin document
          \verb support, uses same csnames as in TX so they share code if both loaded (this
\TX@warn
          version names tabulary in the warning though). See tabulary for documentation.
         411 {\uccode'\*='\ %
         412 \uppercase{\gdef\TX@verb{%
              \leavevmode\null\TX@vwarn
         413
              {\ifnum0='}\fi\ttfamily\let\\\ignorespaces
         414
               \@ifstar{\let~*\TX@vb}{\TX@vb}}}}
         415
         416 \det TX@vb#1{\det @tempa##1#1{\hat @tempa##1}} def \end{the toks@}%
                 \expandafter\TX@v\meaning\@tempa\\ \\\ifnumO='{\fi}}\@tempa!}
         418 \def\TX@v#1!{\afterassignment\TX@vfirst\let\@tempa= }
         419 \begingroup
         420 \catcode '\*=\catcode '\#
         421 \catcode '\#=12
         422 \gdef\TX@vfirst{%
         423
               \if\@tempa#%
                 \def\@tempb{\TX@v@#}%
         424
         425
               \else
                 \let\@tempb\TX@v@
         426
         427
                 \if\@tempa\space~\else\@tempa\fi
              \fi
         428
              \@tempb}
         430 \gdef\TX@v@*1 *2{%
```

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http://tex.stackexchange.com/a/185851/10000 eral: Further SPQR modification for the stacked properties of the stacked					
$1 ext{tions to multi pass table env} ext{$					
v0.2					
General: Changed everything ex- General: Remove multi pass table					
cept the name					
-					
(
General: Changed everything ex- \TY@arrayrule: macro added 6					
cept the name: s and CLRS \TY@classvi: macro added 7					
added $\dots 1$ v0.7					
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\TY@checkmin: \global &	_	optional arg 7			

v0.8 s (until it works) 1

General: Rename S to J and 'hide'