

The `stabular` package

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1 Introduction

Purpose: improve tabular environment by providing new commands for adds between tabular rows and allowing page break.

2 Usage

Provides new commands in tabular (used after command `\\`).

`\emptyrow[<row height>]`

Adds empty row with specified *<row height>*.

`\tabrow{<tokens>}[<adds>]`

Adds row of natural height: *<tokens>*`\\[<adds>]`.

`stabular`
`stabular*`

Provides new environments: `stabular` and `stabular*`. It is one more multi-page version of tabular.

3 Implementation

Changed internal commands: `\@mkpream`, `\@addamp`, `\@xhline`.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{stabular}[1998/03/19]
```

`\empty@finalstrut`

```
3 \def\empty@finalstrut#1{%
4   \unskip
5   \ifhmode\nobreak\fi
6   \vrule\@width\z@\@height\z@\@depth\z@
7 }
```

`\no@strut`

```
8 \def\no@strut{%
9   \global\setbox\@arstrutbox\hbox{%
```

```

10     \vrule \@height\z@
11         \@depth\z@
12         \@width\z@
13     }%
14     \gdef\@endpbox{\empty@finalstrut\@arstrutbox\par\egroup\hfil}%
15 }%

\yes@strut
16 \def\yes@strut{\global\setbox\@arstrutbox\hbox{%
17     \vrule \@height\arraystretch \ht\strutbox
18         \@depth\arraystretch \dp\strutbox
19         \@width\z@}%
20     \gdef\@endpbox{\@finalstrut\@arstrutbox\par\egroup\hfil}%
21 }%

\@mkpream
22 \def\@mkpream#1{\@firstampttrue\@lastchclass6
23     \let\@preamble\empty\def\empty@preamble{\add@ins}%
24     \let\protect\@unexpandable@protect
25     \let\@sharp\relax
26     \let\add@ins\relax
27     \let\@startpbox\relax
28     \let\@endpbox\relax
29     \@expast{#1}%
30     \expandafter\@tfor \expandafter
31         \@nextchar \expandafter:\expandafter=\reserved@a\do
32         {\@testpach\@nextchar
33             \ifcase \@chclass \@classz \or \@classi \or \@classii \or \@classiii
34                 \or \@classiv \or \@classv \fi\@lastchclass\@chclass}%
35     \ifcase \@lastchclass \@acol
36         \or \or \@preamerr \@one\or \@preamerr \tw@\or \or \@acol \fi
37 }

\@addamp
38 \def\@addamp{%
39     \if@firstamp
40         \@firstampfalse
41         \edef\empty@preamble{\add@ins}%
42     \else
43         \edef\@preamble{\@preamble &}%
44         \edef\empty@preamble{\expandafter\noexpand\empty@preamble &\add@ins}%
45     \fi
46 }
47 \newif\iftw@hlines \tw@hlinesfalse

\@xhline
48 \def\@xhline{%
49     \ifx\reserved@a\hline
50         \tw@hlinestrue

```

```

51 \else
52   \ifx\reserved@a\Hline
53     \tw@hlinestrue
54   \else
55     \tw@hlinesfalse
56   \fi
57 \fi
58 \iftw@hlines
59   \aftergroup\do@after
60 \fi
61 \ifnum0='{ \fi}%
62 }

\do@after
63 \def\do@after{\emptyrow[\the\doublerulesep]}

\emptyrow
64 \def\emptyrow{\noalign\bgroup
65   \@ifnextchar[\@emptyrow{\@emptyrow[\z@]}%
66   }

\@emptyrow
67 \def\@emptyrow[#1]{%
68   \no@strut
69   \gdef\add@ins{\vrule \@height\z@ \@depth#1 \@width\z@}%
70   \egroup
71   \empty@preamble\\
72   \noalign{%
73     \yes@strut
74     \gdef\add@ins{\vrule \@height\z@ \@depth\z@ \@width\z@}%
75   }%
76   }

\tabrow
77 \def\tabrow#1{\noalign\bgroup
78   \@ifnextchar[{\@tabrow{#1}}{\@tabrow{#1}[]}%
79   }

\@tabrow
80 \def\@tabrow#1[#2]{\no@strut\egroup
81   #1\ifx.#2.\else\[#2]\fi
82   \noalign{\yes@strut}%
83   }

\endstabular
84 \def\endstabular{\crrcr\egroup\egroup\egroup}
85 \expandafter\let\csname endstabular*\endcsname\endstabular

```

```

\stabular
86 \def\stabular{\let\@halignto\@empty\@stabular}

\stabular
87 \@namedef{stabular*}#1{\def\@halignto{to#1}\@stabular}

\@stabular
88 \def\@stabular{\leavevmode
89   \bgroup
90   \let\@acol\@tabacol
91   \let\@classz\@tabclassz
92   \let\@classiv\@tabclassiv
93   \let\@tabularcr
94   \@stabarray
95   }

\@stabarray
96 \def\@stabarray{\m@th\@ifnextchar[\@sarray{\@sarray[c]}}

\@sarray
97 \def\@sarray[#1]#2{%
98   \bgroup
99   \setbox\@arstrutbox\hbox{%
100     \vrule \@height\arraystretch\ht\strutbox
101     \@depth\arraystretch \dp\strutbox
102     \@width\z@
103     }%
104   \@mkpream{#2}%
105   \edef\@preamble{%
106     \ialign \noexpand\@halignto
107     \bgroup \@arstrut \@preamble \tabskip\z@skip \cr
108     }%
109   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
110   \let\@tabularnewline\@
111   %%\let\par\@empty
112   \let\@sharp##%
113   \set@typeset@protect
114   \lineskip\z@skip \baselineskip\z@skip
115   \@preamble
116   }

117 %\endinput

```