

The `stabular` package

Sigitas Tolušis
`sigitas@vtex.lt`

v2.3 from 2025/06/18

1 Introduction

Purpose: improve tabular environment by allowing page break.

2 Usage

Just insert `\noalign{\eject}` after command `\\` to do a page break inside `stabular` environment.

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

2.1 Package options

`array` It is used to support tabular environment defined in array package.

3 Implementation

```
1 \chardef\use@@pkg@@array@@variant=0%
2 \DeclareOption{array}{\global\chardef\use@@pkg@@array@@variant=1}
3 \ProcessOptions*

\kernel@stabular
4 %%
5 %% kernel version tabular
6 %%
7 \def\kernel@stabular{\let\@halignto\@empty\kernel@@stabular}
8 \def\kernel@endstabular{\crr\egroup\egroup\egroup}

\kernel@stabular*
9 \@namedef{kernel@stabular*}#1{%
10 \setlength\dimen@{#1}%
11 \edef\@halignto{to\the\dimen@}%
12 \kernel@@tabular
13 }
14 \expandafter\let\csname kernel@endstabular*\endcsname\endstabular
```

\kernel@@stabular

```
15 \def\kernel@@stabular{\leavevmode
16 \bgroup
17 \let\@acol\@tabacol
18 \let\@class\@tabclassz
19 \let\@classiv\@tabclassiv
20 \let\\\@tabularcr
21 \kernel@@stabarray
22 }
```

\kernel@@stabarray

```
23 \def\kernel@@stabarray{\m@th@ifnextchar[\kernel@@sarray{\kernel@@sarray[c]}}
24 \def\kernel@@sarray[#1]#2{%
25 \bgroup
26 \setbox\@arstrutbox\hbox{%
27 \vrule \@height\arraystretch\ht\strutbox
28 \@depth\arraystretch\dp\strutbox
29 \@width\z@
30 }%
31 \@mkpream{#2}%
32 \edef\@preamble{%
33 \ialign \noexpand\@halignto
34 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr
35 }%
36 \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
37 \let\tabularnewline\\
38 %%\let\par\@empty
39 \let\@sharp##%
40 \set@typeset@protect
41 \lineskip\z@skip \baselineskip\z@skip
42 \ifhmode \@preamerr\z@ \@@par\fi
43 \@preamble
44 }
```

pkgarray@stabular

```
45 %%
46 %% array package version tabular
47 %%
48 \def\pkgarray@stabular{\def\@halignto{}}\pkgarray@@stabular}
49 \def\pkgarray@endstabular{\endarray\egroup
50 \UseTaggingSocket{tbl/hmode/end}}%
51 }
```

pkgarray@stabular*

```
52 \expandafter\def\csname pkgarray@stabular*\endcsname#1{%
53 \setlength\dimen@{#1}%
54 \edef\@halignto{to\the\dimen@}\pkgarray@@stabular}
55 \expandafter\let\csname pkgarray@endstabular*\endcsname\pkgarray@endstabular
```

\pkgarray@@stabular

```
56 \def\pkgarray@@stabular{%
57 \leavevmode
58 \UseTaggingSocket{tbl/hmode/begin}}%
```

```

59 \bgroup
60 \MathCollectTrue
61 \col@sep\tabcolsep \let\d@llarbegin\beginngroup
62 \let\d@llarend\endgroup
63 \@kernel@stabular@init
64 \pkgarray@@stabarray
65 }

```

\pkgarray@@stabarray

```

66 \def\pkgarray@@stabarray{\@ifnextchar[{\pkgarray@sarray}{\pkgarray@sarray[c]}}
67 \def\pkgarray@sarray[#1]#2{%
68 \@tempdima \ht \strutbox
69 \advance \@tempdima by\extrarowheight
70 \setbox \@arstrutbox \hbox{\vrule
71 \@height \arraystretch \@tempdima
72 \@depth \arraystretch \dp \strutbox
73 \@width \z@}%
74 \tbl_save_outer_table_cols:
75 \beginngroup
76 \@mkpream{#2}%
77 \tbl_count_table_cols:
78 \xdef\@preamble{%
79 \noexpand \ar@ialign
80 \@halignto\bgroup
81 \@arstrut
82 \UseTaggingSocket{tbl/row/begin}%
83 \tbl_init_cell_data_for_row:
84 \@preamble
85 \tabskip \z@ \cr
86 }%
87 \endgroup
88 \@arrayleft
89 \bgroup
90 \let\@sharp##\let\protect\relax
91 \lineskip \z@
92 \baselineskip \z@
93 \mathsurround \z@
94 \let\@arraycr \let\tabularnewline\@empty\let\par\@empty
95 \UseTaggingSocket{tbl/init}%
96 \@preamble
97 }

```

\load@stabular

```

98 %%
99 %% loading the appropriate version
100 %%
101 \def\load@stabular#1{%
102 \expandafter\let\expandafter\stabular\csname #1@stabular\endcsname
103 \expandafter\let\csname stabular*\expandafter\endcsname
104 \csname #1@stabular*\endcsname
105 \expandafter\let\expandafter\endstabular\csname #1@endstabular\endcsname
106 \expandafter\let\csname endstabular*\expandafter\endcsname
107 \csname #1@endstabular*\endcsname
108 }

```

```
109 \ifcase\number\use@@pkg@@array@@variant\relax
110 \@ifpackageloaded{array}{\load@stabular{pkgarray}}{\load@stabular{kernel}}%
111 \AddToHook{package/array/after}{\load@stabular{pkgarray}}%
112 \else\relax
113 \@ifpackageloaded{array}{}{\RequirePackage{array}}%
114 \load@stabular{pkgarray}%
115 \fi
```