The **stabular** package

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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{\crcr\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
```

1

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

```
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   }
```

```
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   }
```

```
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
```

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

```
59    \bgroup
60      \MathCollectTrue
61      \col@sep\tabcolsep \let\d@llarbegin\begingroup
62                                        \let\d@llarend\endgroup
63      \@kernel@tabular@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    \begingroup
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\\%%\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
```