

The `stabular` package

Sigitas Tolušis
sigitas@vtex.lt

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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 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{stabular}[2014/03/20]
3 \def\use@@pkg@@array@@variant{0}
4 \DeclareOption{array}{\def\use@@pkg@@array@@variant{1}}
5 \ProcessOptions*

stabular
6 \def\stabular{\let\@halignto\@empty\@stabular}
7 \def\endstabular{\crcr\egroup\egroup\egroup}

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

```

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

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

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

```

Definitions to provide array package support.

```

43 \def\pkgarray@#1#2{%
44  \@tempdima \ht \strutbox
45  \advance \@tempdima by\extrarowheight
46  \setbox \@arstrutbox \hbox{\vrule
47    \@height \arraystretch \@tempdima
48    \@depth \arraystretch \dp \strutbox
49    \@width \z@}%
50  \begingroup
51  \@mkpream{#2}%
52  \xdef\@preamble{\noexpand \ialign \@halignto
53    \bgroup \@arstrut \@preamble
54    \tabskip \z@ \cr}%
55  \endgroup

```

```

56 \@arrayleft
57 \bgroup
58 \let\@sharp#\let\protect\relax
59 \lineskip\z@ \baselineskip\z@
60 \m@th
61 \let\\\@arraycr \let\tabularnewline\\
62 %\let\par\@empty
63 \@preamble
64 }
65 \def\pkgarray@stabarray{\@ifnextchar[{\pkgarray@sarray}{\pkgarray@sarray[c]}}
66 \def\pkgarray@stabular{\gdef\@halignto{ }\pkgarray@stabular}
67 \expandafter\def\csname pkgarray@stabular*\endcsname#1{%
68     \setlength\dimen@{#1}%
69     \xdef\@halignto{to\the\dimen@}\pkgarray@stabular}
70 \def\pkgarray@stabular{%
71     \leavevmode
72     \bgroup
73     \col@sep\tabcolsep
74     \let\d@llarbegin\begin\group
75     \let\d@llarend\end\group
76     \pkgarray@stabarray
77 }
78 \def\pkgarray@endstabular{\crr\egroup\egroup\gdef\@preamble{\}\egroup}
79 \expandafter\let\csname pkgarray@endstabular*\endcsname\pkgarray@endstabular
80 \ifcase\use@@pkg@@array@@variant
81 \else
82 \@ifpackageloaded{array}{}{\RequirePackage{array}}%
83 \let\stabular\pkgarray@stabular
84 \expandafter\let\csname stabular*\expandafter\endcsname
85     \csname pkgarray@stabular*\endcsname
86 \let\endstabular\pkgarray@endstabular
87 \expandafter\let\csname endstabular*\expandafter\endcsname
88     \csname pkgarray@endstabular*\endcsname
89 \fi

```