shtabularlines.sty

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How to put variable width lines in tabulars.

Command

- `\shhline[width]` Same as `\hline` but with variable line width.

- `\shvline[width]` Same as `\vline` but with variable line width.

- `\shcline[width]{cols}` Same as `\cline` but with variable line width.

- `\shclinespace[width]` Should be used together with `\shcline` to compensate for the with of the line.

Variables

The default width of the lines can be changed with the variable `\sharrayrulewidth`. Change with `\renewcommand`.

Examples

Thick upper and lower lines

There are two ways to do the same thing, either use the optional parameter or reset `\sharrayrulewidth`:

```
\begin{tabular}[t]{|c|c|c|}
  \shhline[2pt]
  $x$ & $y$ & $z$\\\shhline
  1 & 2 & 3 \\
  4 & 5 & 7\\\shhline[2pt]
\end{tabular}
```

```
\renewcommand{\sharrayrulewidth}{2pt}
\begin{tabular}[t]{|c|c|c|}
  \shhline
  $x$ & $y$ & $z$\\\hline
  1 & 2 & 3 \\
  4 & 5 & 7\\\shhline
\end{tabular}
```

x	y	z
1	2	3
4	5	7

How to use vertical lines

To change the vertical lines use the packacke `array.sty` (`\usepackage{array}`). Among the extra tabular specifications we get `!{decl}` where the vertical line is replaced with the declaration `decl`.

```
\begin{tabular}[t]{|c!{\shvline[2pt]}c|c|}
  \shhline[2pt]
  $x$ & $y$ & $z$\\\hline
  1 & 2 & 3 \\
  4 & 5 & 7\\\shhline[2pt]
\end{tabular}
```

x	y	z
1	2	3
4	5	7

How to use parts of lines

When a line should only cover part of the table the command `\shcline` is used. It works in the same way as the LaTeXcommand `\cline`. However, since several `\shcline` can be used on the same row, it can not compensate for the extra row space ocupied by the line. Therefore, there is a second command, `\shcline`. In the following example it is shown how they are supposed to be used.

```
\renewcommand{\sharrayrulewidth}{1.5pt}
\begin{tabular}[t]{|c!{\shvline}c|c|}
  \shhline
  $x$ & $y$ & $z$\\\shcline[\arrayrulewidth]{1-2}\shcline[5pt]{3-3}\shclinespace[5pt]
  1 & \multicolumn{1}{c!{\shvline}}{2} & 3
  \\\shcline{1-2}\shclinespace
  4 & 5 & 7\\\shhline
\end{tabular}
```

x	y	z
1	2	3
4	5	7