Boxed Line or Column in a Matrix

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25.10.2002

1 Boxed Line

```
\begin{equation}
\overrightarrow{A}=\left[
    \begin{array}{cccc}
1 & 2 & 3 & 4\\
1 & 2 & 3 & 4\\\hline
\multicolumn{1}{|c}{1} & 2 & 3 &
\multicolumn{1}{c|}{4}\\\hline
1 & 2 & 3 & 4
    \end{array}\right]
\end{equation}
```

$$\overrightarrow{A} = \left[\begin{array}{cccc} 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \\ \hline 1 & 2 & 3 & 4 \\ \hline 1 & 2 & 3 & 4 \end{array}\right] \tag{1}$$

2 Boxed Column

This seems to be a little bit easier to realize. It uses the LaTeX command `\cline{<fromColumn - toColumn>}` for the first and the last line.

```
\begin{equation}
\overrightarrow{A}=\left[
    \begin{array}{cc|c|c}\cline{3-3}
1 & 2 & 3 & 4\\
1 & 2 & 3 & 4\\
1 & 2 & 3 & 4\\
1 & 2 & 3 & 4\\\cline{3-3}
    \end{array}\right]
\end{equation}
```

$$\overrightarrow{A} = \left[\begin{array}{cc|c|c} 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \\ \cline{3-3} 1 & 2 & 3 & 4 \end{array} \right] \tag{2}$$

3 Boxed Line and Column

This is the combination of the above one.

```
\begin{equation}
\overrightarrow{A}=\left[
    \begin{array}{cc|c|c}\cline{3-3}
1 & 2 & 3 & 4\\
1 & 2 & 3 & 4\\\hline
\multicolumn{1}{|c}{1} & 2 & 3 &
\multicolumn{1}{c|}{4}\\\hline
1 & 2 & 3 & 4\\\cline{3-3}
    \end{array}\right]
\end{equation}
```

$$\overrightarrow{A} = \left[\begin{array}{cc|c|c} 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \\ \hline 1 & 2 & 3 & 4 \\ \cline{3-3} 1 & 2 & 3 & 4 \end{array} \right] \tag{3}$$