

Correction Spacings: eqnarray(*), aligned, alignedat, and gathered

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1 Descriptions

We will realignment some expression environments spacing. It is a correction in the horizontal spacing of the alignment.

2 Usage

2.1 Preamble

```
\usepackage{amsmath}  
\usepackage{correctmathalign}
```

Remark: amsmath package is optional: if you use aligned, alignedat, or gathered environments.

Remark: The problem with the amsmath package (2016/11/05 2.16a) was solved by the original. See the options `alignedleftspaceyes`, `alignedleftspaceno`, and `alignedleftspaceyesifneg`. We dealt with versions prior to 2016/03/10 v2.15b.

2.2 Options

- `latexorg`: original behavior of LaTeX/amsmath package
- `fleqn`: corresponds to class file and/or amsmath package's `fleqn` option

3 File with Original Definitions

- `eqnarray`: `latex.ltx`
- `\start@aligned` and `\gathered`: `amsmath.sty` (before 2016/03/10 v2.15b)

$$\begin{array}{l} I = H(x+1) \\ \hline I = H(x) \\ = H(x+1) \end{array}$$

Figure 1: `eqnarray*` environment by L^AT_EX default.

$$\begin{array}{l} I = H(x) \\ = H(x+1) \\ I = H(x) \\ = H(x+1) \end{array}$$

Figure 2: `aligned` environment by `amsmath.sty` default (before 2016/03/10 v2.15b).

4 License

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5 Samples

Cf. defaults of L^AT_EX and `amsmath.sty` before 2016/03/10 v2.15b (Figures 1 and 2).

$$I = H(x+1)$$

$$\begin{aligned} I &= H(x) \\ &= H(x+1) \end{aligned}$$

$$\begin{aligned} I &= H(x) \\ &= H(x+1) \end{aligned}$$

$$\begin{aligned} I &= H(x) \\ &= H(x+1) \end{aligned}$$

5.1 Use L^AT_EX code

```
\[
  \mathrm{I} = \mathrm{H}(x + 1)
\]
\begin{eqnarray*}
\mathrm{I} &=& \mathrm{H}(x) \\
&& \mathrm{H}(x + 1)
\end{eqnarray*}

\begin{aligned}
\mathrm{I} &= \mathrm{H}(x) \\
&= \mathrm{H}(x + 1)
\end{aligned}
```