ref

Figure 1: 12

cref

Figure 2: eq. (12)

Tests

- Additionally, test that deactivating the package does not result in compile errors during the next run if only basic features are used.
- Additionally, test that everything works with and without the above inputenx package (after deactivating the very strange label below).
- Additionally, test test-freeze.tex.
- Having a referenced equation with reference before 1

$$d - d = 0 \tag{1}$$

$$d - d = 0$$

2

$$a$$

$$b \tag{2}$$

- Having a referenced equation with reference after

$$c^2 = cc \tag{3}$$

3

- Having an unlabeled equation

$$a^2 + b^2 = c^2$$

- Having a labeled, but unreferenced equation

$$\sqrt{a}$$

- Having a labeled equation with a very strange label 4 does only work without package inputenx

$$\sqrt{b} \tag{4}$$

- Having a labeled equation with a colon in the label 5

$$\sqrt{c} \tag{5}$$

- Having an equation with a following label with a colon in the label 6

$$\sqrt{d} \tag{6}$$

- Having an equation with a following label with a colon in the label

$$\sqrt{e} \tag{7}$$

and referencing 7 only afterwards

- Having a labeled equation with umlauts in the label 8

$$\sqrt{c} \tag{8}$$

- Check for spurious whitespace around reference (9)

$$b_c \tag{9}$$

- Check if the starred version of ref does also work (10)

$$c_D \tag{10}$$

- Check if the starred version of cref does also work (eq. (11))

$$d_E \tag{11}$$

- Placing the number in long equations 12

$$\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum\sum a \tag{12}$$

- Printing the number without referencing (needs autonum)

$$E = mgh \tag{13}$$

- Using a ref inside a caption
- Using a cref inside a caption
- Using cref with one argument

$$g \tag{14}$$

eq. (14)

- Using cref with two arguments

$$cr = ef \tag{15}$$

eqs. (14) and (15)

- Using otherwise unused cref with two arguments (needs autonum)

$$cr = ef \tag{16}$$

$$cr = ef \tag{17}$$

eqs. (16) and (17)

- Using cref with a custom type ineq. 18 and thus an optional argument in the label command

$$a < b \tag{18}$$

- Using an unused cref with a custom type and thus an optional argument in the label command

$$d < c$$

- Using align 19, 20

$$a \tag{19}$$

$$b$$

$$c \tag{20}$$

- Using gather 21, 22

$$a \tag{21}$$

$$b$$

$$c \tag{22}$$

- Using multline without referencing

$$a$$

$$c$$

- Using multline with referencing 23

$$a$$

$$c \tag{23}$$

- Using flalign with referencing 24

$$a$$

$$c \tag{24}$$

- Using alignat with referencing 25

$$\begin{aligned} x = yy &\implies y = x \\ y = z &\implies z = y \end{aligned} \tag{25}$$

- short one-line shortcut

$$n$$

- align, numbering always

$$a = l \tag{26}$$

(needs autonum)

- gather, numbering always

$$g = a \tag{27}$$

(needs autonum)

- multline, numbering always (and avoiding overfull hbox warning)

$$m = u \qquad = v \tag{28}$$

(needs autonum)

- equation, numbering always

$$e = q \tag{29}$$

(needs autonum)

- shortcut and split 30

$$\begin{aligned} s \\ p \end{aligned} \tag{30}$$

(needs autonum)

- equation and split 31

$$\begin{aligned} s \\ p \end{aligned} \tag{31}$$

- Split with a long line and a `\notag` after ending split has too much spacing afterwards, if the split environment is not patched:

$$\begin{aligned} \sum_1^2 a &= 2a \\ &= \sum_3^4 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa \end{aligned}$$

- Split with a long line and a `\notag` before ending split has correct spacing afterwards:

$$\begin{aligned} \sum_1^2 a &= 2a \\ &= \sum_3^4 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa \end{aligned}$$

- Split with a long line should have correct spacing afterwards automatically:

$$\begin{aligned} \sum_1^2 a &= 2a \\ &= \sum_3^4 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa \end{aligned}$$

- Split with a long line should have long spacing afterwards if it is referenced 32:

$$\begin{aligned} \sum_1^2 a &= 2a \\ &= \sum_3^4 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa \end{aligned} \tag{32}$$

Note, that the `\label` must not be put inside the `split` environment, as according to the $\mathcal{AMS}$-math documentation `split` provides no numbering.

1 Using ref in section 1

text

2 Using cref in section 2

text

Contents

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