

ref

Figure 1: 13

cref

Figure 2: eq. (13)

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

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

2

$$\begin{array}{c} a \\ b \end{array} \tag{2}$$

- 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 equation with the label at the end of the equation 4

$$a^2 + b^2 = c^2 \tag{4}$$

- Having a labeled, but unreferenced equation

$$\sqrt{a}$$

- Having a labeled equation with a very strange label 5 does only work without package inputenx

$$\sqrt{b} \tag{5}$$

- Having a labeled equation with a colon in the label 6

$$\sqrt{c} \tag{6}$$

- Having an equation with a following label with a colon in the label 7

$$\sqrt{d} \tag{7}$$

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

$$\sqrt{e} \tag{8}$$

and referencing 8 only afterwards

- Having a labeled equation with umlauts in the label 9

$$\sqrt{c} \tag{9}$$

- Check for spurious whitespace around reference (10)

$$b_c \tag{10}$$

- Check if the starred version of ref does also work (11)

$$c_D \tag{11}$$

- Check if the starred version of cref does also work (eq. (12))

$$d_E \tag{12}$$

- Placing the number in long equations 13

$$\sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum \sum a \tag{13}$$

- Printing the number without referencing (needs autonum)

$$E = mgh \tag{14}$$

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

$$g \tag{15}$$

eq. (15)

- Using cref with two arguments

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

eqs. (15) and (16)

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

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

$$cr = ef \tag{18}$$

eqs. (17) and (18)

- Using cref with a custom type ineq. 19 and thus an optional argument in the label command

$$a < b \tag{19}$$

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

$$d < c$$

- Using align 20, 21

$$a \tag{20}$$

$$b \tag{21}$$

$$c \tag{21}$$

- Using gather 22, 23

$$a \tag{22}$$

$$b \tag{23}$$

$$c \tag{23}$$

- Using multiline without referencing

$$a$$

$$c$$

- Using multiline with referencing 24

$$a$$

$$c \tag{24}$$

- Using flalign with referencing 25

$$a \tag{25}$$

$$c \tag{25}$$

- Using alignat with referencing 26

$$x = yy \implies y = x$$

$$y = z \implies z = y \tag{26}$$

- short one-line shortcut

$$n$$

- align, numbering always

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

(needs autonum)

- gather, numbering always

$$g = a \tag{28}$$

(needs autonum)

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

$$m = u \text{-----} = v \tag{29}$$

(needs autonum)

- equation, numbering always

$$e = q \tag{30}$$

(needs autonum)

- align with line breaks with extra spacing

$$a$$

$$b$$

- shortcut and split 31

$$s$$

$$p \tag{31}$$

(needs autonum)

- equation and split 32

$$s$$

$$p \tag{32}$$

- align and split with the label defined before the split environment 33

$$s \tag{33}$$

- align and split with the label defined in the split environment 34

$$s \tag{34}$$

- Align with split and non-split (should have two lines)

line 1

line 2

- Align with non-split and split (should have two lines)

line 1

line 2

- Align with two splits (should have four lines), none referenced)

line 1

line 2

line 3

line 4

- Align with two splits (should have four lines), both referenced 35 and 36

line 1 
$$\tag{35}$$

line 2 
$$\tag{36}$$

line 3 
$$\tag{36}$$

line 4 
$$\tag{36}$$

- Align with split and label at the wrong place should result in the detection of an error

$$1 = 1$$

Package error successfully detected.

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

$$\sum_1^2 a = 2a$$

$$= \sum_3^4 aa$$

- Split with a long line and a \notag before ending split has correct spacing below the environment:

$$\sum_1^2 a = 2a$$

$$= \sum_3^4 aa$$

- Split with a long line and without an explicit \notag should have the same spacing as directly above and not the spacing as directly below:

$$\sum_1^2 a = 2a$$

$$= \sum_3^4 aa$$

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

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