# The **bxcalcux** package

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### 1 Overview

This package allows one to create a new unit of length that can be used in length expressions of the calc package. For example,

will assign  $0.72266\,\mathrm{pt}$  to  $\verb+lengthA.^1$ 

Supported format  $IAT_EX$ .

**Supported engine** Any engine with  $\varepsilon$ -T<sub>E</sub>X extension.

Prerequisite packages calc, etoolbox.

### 2 Package Loading

Use \usepackage as usual, with no options.

\usepackage{bxcalcux}

#### 3 Usage

- \DeclareCalcUnit{ $\langle unit \rangle$ }{ $\langle text \rangle$ }: (for  $T_EXnicians$ ) Declares a new unit  $\langle unit \rangle$  as equal to the unit expressed by a token list  $\langle text \rangle$ , which must form a "unit of dimen" (in  $T_EX$  terminology). Here is an example.

\DeclareCalcUnit{ls}{\baselineskip}% current line skip

## 4 Notices

- Usually unit names are treated as case-insensitive; but as exception, unit names with a single letter are case-sensitive.
- You must not create a unit name that coincides with a prefix of existing (built-in or created) units or any keywords that could be used in calc expressions (such as plus, fil, etc.); otherwise unexpected things would occur.

<sup>&</sup>lt;sup>1</sup>Using 0.001in instead of 0.07227pt will give rather inaccurate results, since 0.001in is evaluated to 0.7277 pt.