The **bxcalcux** package

Takayuki YATO (aka. "ZR")

v1.0b [2019/11/24]

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 ε -T_EX 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.

¹Using 0.001in instead of 0.07227pt will give rather inaccurate results, since 0.001in is evaluated to 0.7277 pt.