0.1 Project Effort and Cost

To make an Effort estimation we have to compute this formula:

$$effort = 2.94 * EAF * (SLOC/1000)^E$$

Where:

- $effort$ is the value to estimate.

- 2.94 is a constant defined by COCOMO II 2000.0.

- EAF is the "Effort Adjustement Factor" calculated in the following sections.

- $SLOC/1000$ that is the KSLOC (Kilo SLOC) number.

- E that is an exponent calculated in the following sections.

0.1.1 Exponent E computation

The parameter E is an aggregation of five Scale Factors described in the document
at `http://csse.usc.edu/csse/research/COCOMOII/cocomo2000.0/CII_modelman2000.0.pdf`

The following table contains the variuos values for these Scale Factors (table taken from the previous URL).

../images

- **PREC** (Previous experience of the organization with these type of projects): LOW (4.96).

- **FLEX** (Degree of flexibility in development process): HIGH (2.03).

- **RESL** (Risk Analysis): HIGH (2.83).

- **TEAM** (How well the development team knows each other): EXTRA HIGH (0.00).

- **PMAT** (Maturity of the Organization): NOMINAL (4.68).

The result is the sum of these factors:

$$\sum_{j=1}^{5} SF_j = 14.67$$

0.1.2