

# CAS 741: Problem Statement

## Translator: from description to C++ and $\text{\LaTeX}$ code

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## 1 Goal

The goal is to translate a set of user-written differential-algebraic equations (DAEs) to the corresponding C++ function and  $\text{\LaTeX}$ code. The C++ function has the signature required by DAETS, a DAE solver, and the  $\text{\LaTeX}$ code is an aligned equation environment containing all the equations.

## 2 Environment

This program is mainly designed to work under Ubuntu 18.04.3. Compatibility with other environments is possible, but not guaranteed nor tested.

Table 1: Revision History

Date	Developer(s)	Change
Date1	Name(s)	Description of changes
Date2	Name(s)	Description of changes
...	...	...

Put your problem statement here. Comments to you can be added, like this:

[\[comment —SS\]](#)

You can also leave comments for yourself, like this:

[\[comment —Author\]](#)