Traduction des Langages

Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

> **Code:** N8AN02B

Presentation

Objectives

The student must master the various stages of language translation: lexical analysis, syntactic analysis and semantic analysis. In the particular case of the compilation, he must know four phases of the semantic analysis: the resolution of the identifiers thanks to a table of symbols, the typing, the memory placement of the variables and the code generation. The student will create a compiler that will take in input a sub-part of C language, and produce code for an abstract stack machine. The compiler will itself be written in Java using XText.