

## LEIBNITZ--A MULTILINGUAL SYSTEM

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Leibnitz is an international cooperation between computer translation centers interested in a multilingual system. Several european groups, the TAUM project from the Université de Montreal and a Brazilian group are presently working on this project. Most parts of the system are being written in one of the three languages made available by the CETA in Grenoble. The first one is the ATEF language, a string tree transducer for dictionary look-up and morphological analysis. The second one is CETA and is a tree manipulating language for both transfer and generation. The last one is a tree/string transducer to be completed sometime in summer of 76.

Each group is either working on the design of an analyzer or generator for a specific language or on the transportability of the available formalisms. Research is presently under way on French, German, English, Italian, Portuguese and Russian. English analysis is done by the TAUM team which is presently experimenting with a parser written in REZO its own version of Wood's Augmented Transition Networks. All participating groups have agreed on a normalized tree representation for the output of analyzers and input of generators in order to minimize problems in the design of transfer components. The first part of the system is expected to be operational within two years.