



Amadeus Solutions

Internship: Eliminate #include statements with makepp (m/f)

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Description of the internship

Location of the internship: Frankfurt/ Bad Homburg.

We are maintaining a 23000 file build system and have actively co-developed the open source build tool makepp.

Newer languages allow IDEs to analyze import statements. But in C or C++ there is no information about why some #include statement is needed so that no tool can declude them and often nobody cleans up obsolete ones. This slows down the build and causes extra compilations.

Makepp has metadata on the complete dependency information of what it built. The goal of this project is to program a utility makeppdeclude (mppd). It shall use that dependency graph to eliminate by automated trial and error all such statements that do not cause a difference (seen in the generated assembler source).

Required skills

- Good to excellent Perl
- Understanding of C or C++
- Unix (Solaris or Linux)
- Knowledge of rule based inference systems like make, ant (or prolog) and graph theory is a plus
- German or English

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