

Application System/400 (AS/400) is a minicomputer designed and made by IBM. It's an object-based system with an integrated DB2 database. AS/400 used to be a popular platform for backbone systems with high requirements on stability. Considering the time when these systems were made, the programming language most often used was COBOL in addition to an in-built scripting language CL (Control Language).

Companies using systems on the AS/400 platform often encounter complications during further development of these systems due to insufficient documentation of old programs. The solution for these companies is to have a tool which will generate documentation by means of reverse engineering of the system. This is a "low-level" documentation describing all components of the system, their interconnection and use of resources, and it gives a global view of how the system is implemented.

The aim of the thesis was to design a form of such documentation and to analyse possibilities of its automated generating with use of reverse engineering. Based on this analysis a tool was implemented which is able to produce a documentation for a general system written in COBOL and CL (Control Language), using the integrated DB2 database.