



ARCAD-Auto-Impacter: Automation of Impact Analyses

The Business Issue

One of the most important aspects of an impact analysis phase is the precision of the analysis. This sets the conditions the accuracy in evaluating the workload, as well as the general reliability of a modified application. If the impact analysis is carried out manually, it can never reach the same level of reliability as an automatic job. Additionally, the difference between the time taken for manual analysis or for automatic analysis is obvious; what used to take several days, now only takes a few hours. In order to guarantee that the job is complete the obvious choice is to automate this task.

The Solution

ARCAD-Auto Impacter is a solution that allows you to automate impact analyses down to the most detailed level; the source lines, with 100% reliability. The process begins by building a list of fields to impact or transform. A multi-criteria selection mechanism allows you to carry out this job with ease. ARCAD-Auto Impacter runs its propagation engines on this list, which then finds all the inter-field connections within the sources. The results of these searches can be viewed on screen or printed.

Architecture

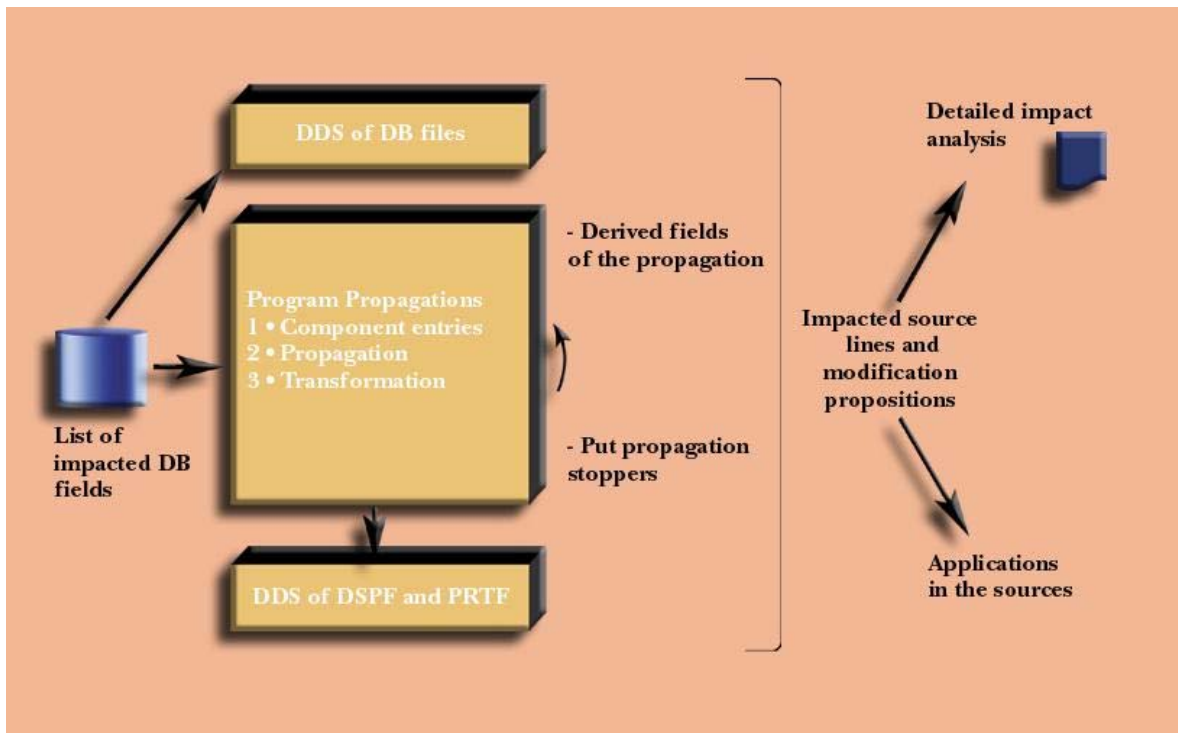
ARCAD-Auto Impacter contains propagation engines, which were defined for each AS/400 language.

- Propagation in the PF, LF, DSPF, PRTF, Programs,
- RPG II, III, RPGLE, COBOL, COBOL ILE, CLP, SQLRPG and SQLCBL languages, OPNQRYF queries,

All search mechanisms within the sources are carried out in batch. The system restores the path of fields throughout each process.

Platforms

- OS/400 V4R4 (note that to utilize DB2/UDB and Verifier functionalities a minimum version of OS/400 V5R1 is required) and over
- Native interface



General functionalities diagram

Benefits

ARCAD-Auto Impacter is a tool that provides a maximum productivity in your impact analysis activities. It also guarantees the non-regression of your information system by avoiding any unfortunate “oversights” in an update process.

The Functionalities of the ARCAD-Auto Impacter solution

- A multi-criteria selection of database fields (and/or program fields or DSPF/PRTF fields)
- Processing fields with internal or external descriptions
- An editor for accessing impacted components
- Monitoring fields derived from the propagation
- View impacted source lines
- Detailed impact analysis listings