

## PRODUCTIVITY INCREASE IN LEGACY SYSTEMS

Currently the accurate, reliable and available information where and when is needed is an essential item for organizations, as well as information systems that handle and provide this information. Because of the business dynamics, information systems also need to be dynamic, in order to be continually modified to fit the organizations new needs.

Moreover, systems modifications and evolutions are complex and costly. Many of these systems do not have documentation, or this documentation is outdated and incomplete, they were developed using obsolete techniques and technologies, and require specialized staff not longer available. Thus, nowadays the industry has faced a problem: "*How to maintain, or evolve the legacy systems in order to monitor the dynamics of the organization, at a cost that does not prevent the business*"?



In this context, the LIFT, is a tool for system understanding, which helps to increase the productivity of the evolution and maintenance processes of legacy systems.

### LIFT

Among LIFT's main features, we can highlight: the system modules graphic visualization and the relationship between them, with visual representation of metrics through the graph elements attributes (color, thickness, size and shape); visualization of the application call and minimum paths detection flows among modules; automatic detection of the application layers (interface, business and data); a set of modules abstraction and isolation mechanisms; automatic detection and isolation of clusters; and, ***automatic system documentation generation in an interactive way with the developer***, among others features.

With the tool usage, C.E.S.A.R. has obtained up to 60% increase in productivity in software reengineering projects, in small systems with 10 thousand lines of code, to large systems with more than half a million lines of code, written in NATURAL/ADABAS.

The LIFT tool is part of a suite of tools that, integrated with methods, processes and education, in which we have half a decade of experience, can change the state-of-the-practice of the company. C.E.S.A.R. can get involved with your company to identify reuse opportunities, to install of our tools and to train your team for their effective use.

The responsible manager for the reuse area, at C.E.S.A.R., is Eduardo Cruz, [eduardo.cruz@cesar.org.br](mailto:eduardo.cruz@cesar.org.br), +55 81 3425-4569 and +55 81 9197-9035. He will be delighted to talk with you and visit your company. To see more about RiSE's ideas, work, skills and tools, please visit [www.rise.com.br](http://www.rise.com.br).