An Impact Analysis Case Study
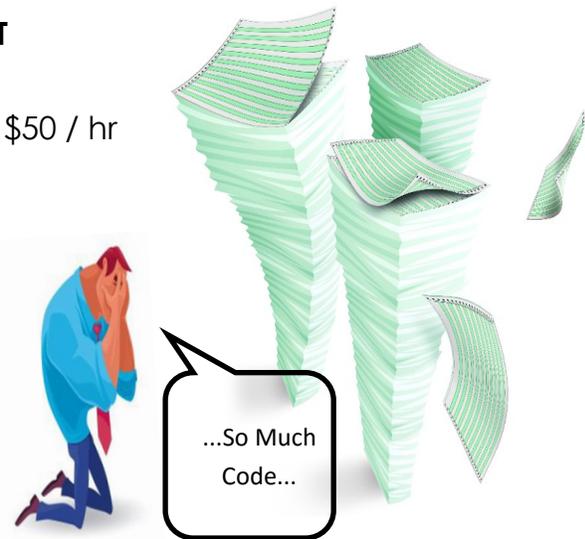
99% Time Savings on a Major Impact Analysis

One of the nation's leading investment firms realized their IT systems were running out of a critical number field due to the size of the field. Worse yet, they were going to run out within a few months and this would cause major disruption in the current business process. Internal estimates concluded that it would take 37 teams approximately 2400 hours costing $120,000 to complete the impact analysis. Even with this cost there was great concern that some impacts would be missed. Management asked the 37 teams to get started since time was short.

Fortunately, this company was near the end of a Proof of Concept of CM evolveIT, the automated source code analysis product from CM First. The company management approached the CM evolveIT POC team to ask if CM evolveIT could help in the Impact Analysis. CM First worked with the POC team to define the Impact Analysis approach. In the end, a single analyst that was not a subject matter expert (SME) on the system, completed the impact analysis in 60 hours costing only $3,000.

Bottom Line Cost Savings using CM evolveIT

- Cost for manual analysis
  - 4800 programs X .5 hr /program X $50 / hr
  - **Traditional cost: $120,000.00**
- Cost for Analyst using CM evolveIT
  - cost = 60 hours X $50 per hour
  - **CM evolveIT cost: $3,000.00**

Total cost savings: $117,000.00

...So Much Code...

What is Impact Analysis Costing your Company?

Your mainframe systems embody decades of business and technical expertise, but the problem is that knowledge is buried in the million plus lines of code of a typical legacy application. That is the equivalent to 33 John Grisham novels. Think of all of the time your analysts spend reading code in scan results and filtering out the false-hits to accomplish their Impact Analysis work. Worse yet, what's the cost to fix a mistake if the analyst misses a path due to the complexity of the code, inconsistent data naming, or human error.
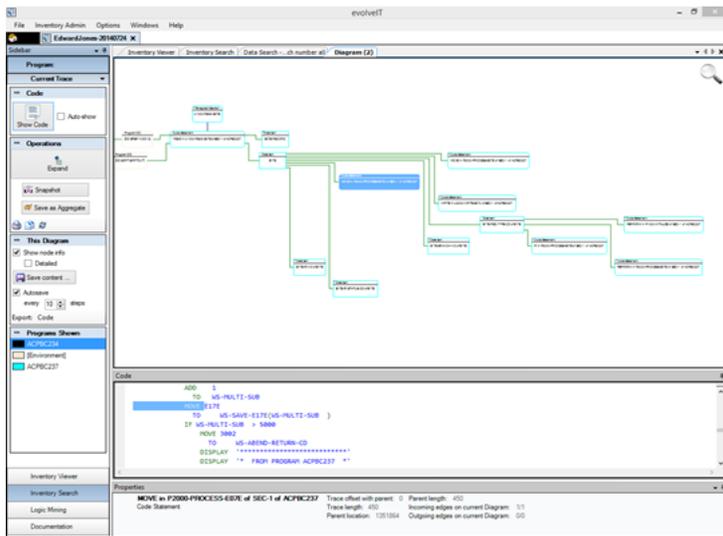
With CM First's automated analysis products, analysts find answers 80-99% faster than scanning and reading source code. Our code understanding products bring the accuracy of a compiler to the analysis process. Analysts are able to step through a focused analysis path to get the exact formation they need from any starting point digging into the details within minutes.

CM FIRST

Rethink Modernization

...it is More than Cost Savings

99% cost savings and the value of the 60 analyst's time staying focused on business priority projects can make the difference between winning in a competitive environment and falling behind the competition. In addition to the cost savings, there were a few analysts that attempted the analysis and were only able to find 5 of the 16 impacts. The analysts using traditional approaches were only able to find 1 path for another step in the analysis where CM evolveIT found 100's of paths that were required. With these kinds of results, it is clear that using CM evolveIT not only saved 99% of the time but removed much of the human error that inevitably creeps into large analysis tasks. The risk of starting a major project without complete analysis causes surprises where management learns that the project was much larger than originally estimated. Accurate estimates give management the information they need to make the informed project decisions that significantly reduces the number of project failures based on bad project planning and analysis, and never ending testing cycles to find problems from missed analysis paths and the confidence to begin projects that can be completed as planned.

Benefits

◊ Removes technical roadblocks for projects that cannot be completed manually

◊ Reliable — Automation reduces risk

◊ Your development stays focused on supporting the business

◊ Makes the application more understandable to programmers

Impact Analysis Projects

- Field Size Expansion

- Field Path Analysis

- Database Usage

- Group Level Usage

- Cross File Read/Write

- Cross Database Read/Write

- Export results as XML

About CM First

CM First has a proven record of providing cutting edge COBOL legacy system understanding tools in CM evolveIT. CM evolveIT has been commercially available for over 10 years and contains a complete set of tools for analyzing and documenting legacy applications. CM evolveIT models every aspect of an IT system from the screens that users see down to the fields within a program. CM evolveIT provides 100% accuracy in a fraction of the time of traditional mainframe scanning tools.

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