

Use CM evolveIT to Solve Bottlenecks in Your COBOL Programs

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Here is an easy but powerful way to use CM evolveIT to identify potential bottlenecks in your COBOL system using a simple regular expression search. Multi-level looping structures are an instance where performance issues might be found. Identifying these can be difficult since a traditional mainframe scan doesn't allow finding text on separate lines in the source.

In CM evolveIT, it is possible to use the Text Search tool along with a Multi-line search to find this kind of code construct.

Use the screen shot below to see how to set up this kind of search by using the **multi-line search** option, searching **Original Source** and **programs only**, with a simple regular expression:

“perform varying.*perform.*until”.

Try the search and let us know what you find as opportunities for improvement in your system.

The screenshot displays the CM evolveIT interface. The 'Text Search' tool is configured with the search term 'perform varying.*perform.*until', 'Multi-line' search, and 'Original Source' selected. The search results pane shows 177 items, including programs like CASHLIFE, CM0082EX, CREH4000, LC0110PG, LC0122PG, LC0125PG, LC0126PG, LC0131PG, LC0161BT, LC01VDR, LC0217PG, LC0220BT, and LC0264PG. The 'Details' pane shows a snippet of COBOL code with a highlighted section containing nested 'PERFORM VARYING' and 'UNTIL' loops.

```
03037R 3871-MOVE-MTLY-GCOI-RT.
03037R
03037R   PERFORM VARYING COI-SUB FROM 1 BY 1
03037R   UNTIL COI-SUB > 20
03037R   MOVE WS-EXT-BITR-MTLY-GCOI-RT (COI-SUB) TO
03037R   LCDX-BITR-MTLY-GCOI-RT (COI-SUB)
03037R   END-PERFORM.
03037R   PERFORM VARYING AITR-SUB FROM 1 BY 1
03037R   UNTIL AITR-SUB > 8
03037R   PERFORM VARYING COI-SUB FROM 1 BY 1
03037R   UNTIL COI-SUB > 20
03037R   MOVE WS-EXT-AITR-MTLY-GCOI-RT (AITR-SUB, COI-SUB) TO
03037R   LCDX-AITR-MTLY-GCOI-RT (AITR-SUB, COI-SUB)
03037R   END-PERFORM
03037R   END-PERFORM.
```