

# XRAY

XRAY is a cost effective interactive source-level debugging system for batch programs. It enables fast and effective development, testing, and maintenance of batch applications, improving programmer productivity and encouraging the production of more resilient programs to improve the reliability of production systems.



## **XRAY Benefits:**

- Improved programmer productivity from debug sessions by permitting the resolution of multiple problems in a single session
- Reduced development times due to improved resolution of problems
- Better tested and more resilient programs
- Ability to test infrequently used logic paths to identify and correct obscure program errors
- Improved program maintenance
- Reduced dump analysis
- Improved programmer morale
- Reduced overall cost from significantly improved productivity and fewer production outages due to reduced error levels

## **XRAY's features include:**

- A menu based command structure
- Point and click techniques for navigation and display
- Source level debugging with automatic display of the variables referenced by a the current statement
- Abend interception
- Wild branch detection
- Program loop detection
- Conditional and unconditional user defined halt points
- Display and modify data in storage
- Define items to be displayed on demand or at each program stop point
- Debug statically linked or dynamically called subprograms
- Alter program execution path (skip around or intentionally test specific code, step through program statements)
- Audit trail to log details of changes made during debugging
- Comprehensive help facilities

## **Supported Environments:**

- Systems: VSE/ESA, z/VSE: all releases
- OS/390, z/OS: all releases
- CICS: 1.7 - TS 1.1 (VSE) or TS 3.2 (z/OS)
- Languages: Cobol, Cobol II, COBOL for MVS/VSE, Enterprise COBOL, PL/1 for MVS/VSE, Enterprise PL/1, and Assembler

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