

PRODUCT SHEET
CA Optimizer/II r8.5

CA Optimizer®/II r8.5



CA Optimizer®/II is a productivity tool for the application programming environment. It provides automatic object code optimization for COBOL, enhanced compiler reports, a complete set of testing features to prevent abends, diagnostic reporting for those problems that still manage to go undetected and analysis of code test coverage and application performance.

Overview

CA Optimizer/II provides a complete productivity tool by improving the performance and quality of your applications and also reduces development costs leading up to production. Once applications are promoted to production, CA Optimizer/II intercepts and reports on application failures, enabling you to reduce costly downtime.

Business value

CA Optimizer/II is an integrated tool that improves every phase of the COBOL II, COBOL/370, IBM COBOL for MVS and IBM COBOL for OS/390 development process—from development to testing to production. It can help you improve system performance, programmer productivity and program dependability and syntax and provides examples of all-new and modified COBOL verbs.

Features

Mainframe 2.0

CA Optimizer/II has adopted a key Mainframe 2.0 feature that is designed to simplify your use of CA Optimizer/II and enable your staff to install, configure and maintain it more effectively and quickly.

- **CA Mainframe Software Manager:** The CA Mainframe Software Manager automates CA Optimizer/II installation, deployment and maintenance and removes SMP/E complexities.
 - The **Software Acquisition Service** enables you to easily move product installation packages and maintenance from CA Support Online directly to your mainframe environment and prepare them for installation.
 - The **Software Installation Service** standardizes CA Optimizer/II installation, which includes a new, streamlined Electronic Software Delivery (ESD) method that allows CA Optimizer/II to be installed using standard utilities. This service also provides standardized SMP/E product installation and maintenance via APARs and PTFs, and simplifies SMP/E processing through an intuitive graphical user interface and an intelligent Installation Wizard.
 - The **Software Deployment Service** enables you to easily deploy CA Optimizer/II in your mainframe environment.
 - **CA MSM Consolidated Software Inventory (CSI)** updates and infrastructure improvements add flexibility to CA MSM processing of CSIs and enable CA MSM to more effectively utilize CPU and system memory.
- **Installation Verification Program (IVP) and Execution Verification Program (EVP):** As part of qualification for inclusion in the set of CA Technologies mainframe products released every May, CA Optimizer/II has passed stringent tests performed through the IVP and EVP to find and resolve interoperability problems prior to release. These programs are an extension of our ongoing interoperability certification initiative launched in May 2009.
- **Best Practices guide:** This guide provides information on CA Optimizer/II installation, initial configuration and deployment to shorten the learning curve for staff responsible for the installation and management of this product.

What's new in CA Optimizer/II r8.5

CA Optimizer/II r.8.5 contains significant enhancements. Highlights for this release include the following key features:

- **Enhanced abend information for specific abends:** For specific system-type abends, this enhancement provides additional information in the abend reports, including such information as the inclusion of the missing load module name for S=806 abends.
- **Enhanced abend information for IBM IMS/DC applications:** When reporting on IMS/DC applications, CA Optimizer/II includes the abending transaction identification (task code) in the report index display in the column where the step name appears for batch abends.
- **Allow installation-selected DDNAME for suppressing reports:** This enhancement enables you to select the DDNAME that will trigger suppression of CA Optimizer/II reports, which defaults to CAOESTOP.
- **Filter the Repository Viewer Index display:** You can filter the contents of the Repository Index display based on any column header, saving your filter values across sessions using your ISPF profile.
- **Abend report count summary:** This management-level report displays the number of abend reports generated using selection criteria such as abend codes or a range of dates.
- **Display previous record for all files:** CA Optimizer/II can now display the previous file record (read or written) for all open files in addition to the current record.
- **Display last I/O statement or external transfer:** Display capability has been added for the statement where the last I/O was requested, or where the last external transfer of control occurred in the abending program prior to the abend.
- **Log message for report exclusion:** A JES log message can be generated whenever CA Optimizer/II chooses to suppress an abend report.
- **Identify the VSAM record key:** When reporting on keyed VSAM files in the File Section or Open Files report, CA Optimizer/II can identify the key value for the records displayed.
- **Additional context for source statement displays:** The CA Optimizer/II source display for both the Abending Statement and Last Statement Executed reports has been changed to include a user-specified number of source lines immediately preceding and following the target source statement.

- **Improved abend summary for unhandled conditions:** When reporting on unhandled LE conditions, CA Optimizer/II now provides better diagnostic information on the Abend Summary page to describe the error in terms that you can more efficiently analyze. For example, this will include LE error messages in the CA Optimizer/II abend reports.
- **Display DSNAME in report headers:** When symbolic information is provided in batch reports, CA Optimizer/II adds the name of the CSL or PROTSYM symbolic file to the report headers for reference.
- **Print to new data sets:** This enhancement enables you to print directly from the Repository Viewer to a new data set. This includes printing reports using the “p” line command from the report index, printing listings using the “p” line command from a CSL or PROTSYM index, or when using the PRINT command to print all or part of the data in the current display.
- **Invoke CA File Master™ Plus from the Repository Viewer:** Through a primary command with point-and-shoot access, you are able to launch CA File Master Plus from the CA Optimizer/II r8.5 Repository Viewer. This feature enables you to initiate a Browse or Edit session with selection criteria directly from CA Optimizer/II while viewing an abend report.
- **Integration with CA Endeavor® Software Change Manager (SCM) — Dynamic Symbolic Support:** Like CA InterTest® Batch r8.5, CA InterTest® for CICS r8.5, CA SymDump® Batch and CA SymDump® for CICS r8.5, CA Optimizer/II r8.5 provides symbolic support dynamically for CA Endeavor SCM customers. This feature takes advantage of the CA Endeavor SCM Footprint feature to dynamically locate and format symbolic information automatically on demand, eliminating any program-level setup requirements for symbolic support.

Other key features

CA Optimizer/II provides:

- **Detector:** The CA Optimizer/II Detector facility shortens development cycles and speeds testing. Detector features include:
 - Automatic detailed reporting for abnormally terminating applications
 - Execution-time snapshots of program data areas
 - Interception and repair of data-related errors
 - Validation of subscripts, file buffer access and passed parameters
 - Paragraph flow analysis reports
 - A single, central repository for collecting Detector reports
 - A powerful, feature-rich viewer for Detector reports

- **Analyzer:** The CA Optimizer/II Analyzer facility helps ensure that programmers adhere to consistent and thorough testing methodology. Analyzer features include:
 - Execution-time statement counts
 - Execution-time CPU timings
 - Identification of unexecuted paragraphs and statements
 - Reports that display execution counts and timings onto the source listings
- **Automatic Object Code Optimization:** CA Optimizer/II automatically optimizes COBOL object code, making your applications more efficient and reducing CPU overhead. It does this by:
 - Reducing PERFORM linkage
 - Extracting code from loops
 - Simplifying IF logic
 - Removing unexecuted code
 - Eliminating redundant instructions and repetitive calculations
 - Consolidating data manipulation and repetitive logic
 - Optimizing subscript calculations
- **Enhanced compiler reports:** CA Optimizer/II helps you work smarter by delivering the information you need in an efficient manner. Compiler reports improve usability by:
 - Merging the Data Division Map and Cross Reference reports onto the Data Division in the source listing
 - Merging the Procedure Map and Cross Reference onto the Procedure Division in the source listing
 - Mapping the various sections of the program tables (TGT, PGT, DSA)
 - Condensing the Cross Reference Report
 - Producing an analysis of the program's PERFORM ranges
- **Repository Viewer:** The Repository Viewer offers the interactive Report Tree that helps you navigate detailed reports. Additional functionality includes a built-in Keep Window, electronic notepad and symbolic utilities. A security exit allows greater control over access to your repository data. This powerful and flexible viewer also allows you to:
 - Select Detector reports for viewing from an index of available reports
 - Add source-level symbolic information for any program in the report
 - Customize formatting options according to your preferences
 - View and update symbolic files

- **Management utilities:** Robust, easy-to-use utilities allow you to:
 - Analyze content of executable libraries
 - Manage report repository data
 - Review optimization statistics
 - Display installation options
- **Cross-product integration:** COBOL, PL/I and Assembler symbolic information used by Detector and Analyzer is stored in PROTSYM format, allowing you to maintain one common file, or multiple PROTSYM files, for integrated applications. This means you can easily exchange data with other applications that use this common file format—the same format used by other CA Application Quality and Testing Tools. This makes it easy for you to use all of the CA Application Quality and Testing Tools with less training and without saving multiple copies of your program listings.

Symbolic support provides integration with:

- CA Application Quality and Testing Tools: CA InterTest Batch, CA InterTest for CICS, CA SymDump Batch, and CA SymDump for CICS
- CA Endeavor SCM
- CA Librarian® for z/OS
- CA Panvalet® for z/OS

Delivery approach

CA Services provides a portfolio of mainframe services delivered through CA Technologies internal staff and a network of established partners chosen to help you achieve a successful deployment and get the desired business results as quickly as possible. Our standard service offerings are designed to speed deployment and accelerate the learning curve for your staff. CA Technologies field-proven mainframe best practices and training help you lower risk, improve use/adoption and ultimately align the product configuration to your business requirements.

Benefits

CA Optimizer/II helps you shorten development cycles, increase application quality and maximize return on your mainframe investment.

The CA Technologies advantage

CA Technologies has 30 years of recognized expertise in robust, reliable, scalable, and secure enterprise-class IT management software. CA Optimizer/II r8.5 is a key component of the Mainframe 2.0 initiative from CA Technologies to change the way the mainframe is managed forever by helping you maximize the value of CA Technologies mainframe products and by providing a simplified experience and innovative solutions that deliver value quickly and flexibly.