CA PMO™ Runtime Performance Optimizer (CA PMO) is a performance product that enhances the speed and function of the z/OS operating system by eliminating input and output (I/O) associated with directory searches.

Overview

In order for companies to stay competitive in today's economy, IT departments must ensure that their mainframe applications are meeting service level requirements at the lowest possible cost. CA PMO has long been recognized as a leading product for automatic directory search optimization.

Business value

Organizations that deploy CA PMO realize significant performance gains. Examples indicate that when CA PMO manages libraries, it enables organizations to experience up to 90% gains in unload processing time and a 20% reduction in CPU consumption associated with their delta libraries through operating system performance benefits.
Features

Mainframe 2.0

CA PMO has adopted key Mainframe 2.0 features that are designed to simplify your use of the product and enable your staff to install, configure and maintain it more effectively and quickly.

- **Electronic Software Delivery (ESD):** The Mainframe 2.0 ESD enables you to install CA PMO using standard utilities—without requiring you to reconstitute a tape cartridge. This new procedure helps speed installation and facilitates a consistent install process across mainframe products from CA Technologies, shortening the learning curve for mainframe staff.

What’s new in CA PMO r4.3

- **Support of dynamic LNKLST sets:** CA PMO now manages the current LNKLST set as well as all previously current, active sets. It also automatically detects any new LNKLST sets activated by the SETPROG LNKLST ACTIVATE command.

- **Enhanced LLA refreshes:** CA PMO now issues selective LLA refreshes to libraries that are part of a dynamic LNKLST set, as well as the IPL set.

- **PDSE toleration support:** CA PMO now has a DESERV parameter that, when set, installs a Directory Entry Services exit that captures GET calls to intercept and resolve directory searches for PDSE libraries.

- **CA Auditor for z/OS support:** This enhancement will add data-only Program Description Modules (PDM) that describes front-ends, SVC intercepts, etc. This will allow the auditing feature of CA Auditor for z/OS to recognize CA PMO.

Key features

CA PMO provides the ability to proactively manage and automate directory search performance across the entire mainframe complex so that performance tuning opportunities are actively identified and corrected to ensure that IT provides the best level of service at the lowest cost.

One of the key elements in the performance of any systems is the amount of input I/O activity the system sustains. Much of this activity is due to directory search. Traditionally, I/O devices have been markedly slower than processors. This is the driving force behind the need for intelligent data buffering mechanisms.
Through the use of its software cache, CA PMO eliminates this single source of delay in today’s environments and achieves these results without costly hardware upgrades and requires no operator or end user intervention. It reacts like a bookmark, knowing exactly where to retrieve a directory previously requested.

Although CA PMO provides a wealth of performance benefits, it is simple to install and to use, it does not require an IPL or system modifications and it is invisible to end users.

**Key capabilities**

- **Automatic selection of all the private libraries that it will manage:** You may specify particular private libraries that CA PMO may or may not process, but this is optional.

- **Automatic revision of its managed list and creation of new hash tables based on directory search activity:** This allows CA PMO to enhance system performance for long periods of time without operator intervention.

- **Automatic detection and handling of updates to libraries:** This feature makes it particularly useful for user owned libraries, because users delete, modify, copy, and move the members of these libraries on a daily basis. CA PMO communicates information about updates across systems.

- **Powerful and comprehensive monitoring and reporting capability:** CA PMO informs you of all of its activities. A monitor called PMOMON displays statistics on library directory searches on the system, along with savings of elapsed time, CPU time and EXCPs. PMOMON also shows estimates of the monetary value of the benefits of CA PMO. If you want a library-by-library breakdown of directory search activity, CA PMO can generate a printed report that gives this information.

- **Improve response time in SMS and non-SMS environments:** CA PMO extends the usage of the storage hierarchy by placing PDS directories into processor storage.

- **Enables the organization to fine-tune product behavior:** This is achieved using CA PMO by specifying various commands and parameters. These commands can be issued at the operator console or in a batch job.

- **Automatic refresh of Linklist Lookaside (LLA):** The product can automatically refresh LLA, or it can warn the operator that an LLA refresh is needed. LLA refreshes can be limited to the actual libraries or members that are updated. Alternatively, to eliminate the delays caused by LLA refreshes, you can let CA PMO manage all of your LNKLST libraries and discontinue use of LLA. CA PMO can issue selective LLA refreshes to libraries that are part of a dynamic LNKLST set, as well as to the IPL LNKLST set.
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 PMO is a powerful software cache solution that counteracts the largest single source of delay in many of today’s computer environments: DASD I/O time. It dramatically improves end user response time by automatically eliminating DASD I/O tuning tasks and adjusting to workload changes.

The CA Technologies advantage

CA Technologies has 30 years of recognized expertise in robust, reliable, scalable, and secure enterprise-class IT management software. CA PMO 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 our mainframe products and by providing a simplified experience and innovative solutions that deliver value quickly and flexibly.