



Exploiting IBM zIIP[®] Processors to Reduce z/OS Monitoring Costs

Overview

With today's key business imperative and constant drumbeat of "cost reduction," minimizing the operating expense of your mainframe has never had a higher profile, nor been more important. Through the introduction of Specialty Processors (zIIPs, zAAPs and IFLs) IBM has provided significantly lower cost hardware and the promise of dramatic savings in operational costs.

The primary reason this is so attractive and cost-effective is not just the cheaper hardware, but also much cheaper software, since typically, processing capacity associated with specialty engines is not "counted" as overall z/OS MIPS/MSUs capacity by IBM or ISVs, and is therefore exempt from many related charges such as license costs, upgrades and maintenance fees.

The choice for IT would seem obvious: maximize the use of specialty engines to reduce cost. However, the obstacle to IT achieving these savings is the pre-requisite that only certain types of processing are eligible to execute on these specialized engines. To actually realize such savings, sites must identify and migrate workloads currently running on the mainframe's traditional General Purpose (GP) Processors to one of the cheaper Specialty Processor types. But now, BMC Software has a way for IT to take advantage of specialty processor cost benefits with no migration, no effort, and no risk. The following sections will show how.

z/OS Systems Monitoring: A Necessary Overhead

Monitoring z/OS is a standard requirement in mainframe environments, which can deliver high value benefits to IT, and which falls broadly into two categories:

- > Measurement and presentation of system metrics, and generation of SMF Type 70-79 audit records
- > Real-time monitoring and historical performance management of the entire z/OS system

While an essential part of mainframe day-to-day operations, z/OS monitoring does come at a cost, since most monitoring products consume GP processing capacity that organizations would prefer to have available for production business applications. Reducing the GP capacity consumed by monitoring products is a reality with two BMC MAINVIEW solutions which can easily free up costly GP resources by automatically shifting work to zIIP specialty engines.

BMC Delivers zIIP-eligible z/OS Monitoring

BMC Software uniquely offers organizations the ability to exploit low-cost zIIP processor technology in the monitoring and management of z/OS. The BMC products BMC CMF Monitor and BMC MAINVIEW for z/OS can both shift execution of more than half their work to zIIP processors. Due to their inherent superior operating efficiency plus this unique ability to execute a considerable percentage of their work on the zIIP processor, these MAINVIEW products are able to release high-cost General Purpose engine capacity back to the business

BMC MAINVIEW zIIP-enabled Solutions Overview

BMC CMF Monitor is a simple and compatible replacement for IBM's Resource Measurement Facility™ (RMF™) that produces 100% of the SMF Type 70 records, and is the only high-performance, low-cost alternative to RMF. CMF MONITOR provides performance monitoring, statistics gathering, and throughput reporting across the z/OS enterprise using an extensive array of online views and batch reports, and creates records based on System Management Facility (SMF) type 70-79 records.

MAINVIEW for z/OS provides the power to monitor and manage performance objectives to increase availability across the z/OS enterprise and to ensure Service Level Objectives are met. This product takes advantage of the powerful MAINVIEW “plex-ready” technology, making it possible to generate parallel sysplex-wide global alarms without the need to resort to costly, add-on, high-overhead workstation-based solutions.

Immediate Cost Savings using BMC for z/OS Monitoring

Whatever stage of the licensing cycle you are at with your current products, you will be able to reduce General Purpose processor utilization and save real money by replacing non-zIIP eligible z/OS monitoring tools with the MAINVIEW solutions from BMC Software.

Using BMC solutions you have the potential to make significant cost savings by:

1. Reducing overhead
2. Exploiting IBM zIIP processor technology

How Can BMC Save Me Money?

- > Both products use less costly general processor resources.
- > UNIQUELY, both BMC products are zIIP enabled, where up to 50% or more of their processing can be transferred to zIIP engines from GP engines.
- > Both products share a significant percentage of their processing (e.g. “data collectors”). When used in combination even more MIPS can be saved.

How Much Can I Save?

BMC has a CMF ROI calculator that based on your software and hardware configuration, we can calculate and present your potential savings.

For further information, please contact your BMC Account Manager or

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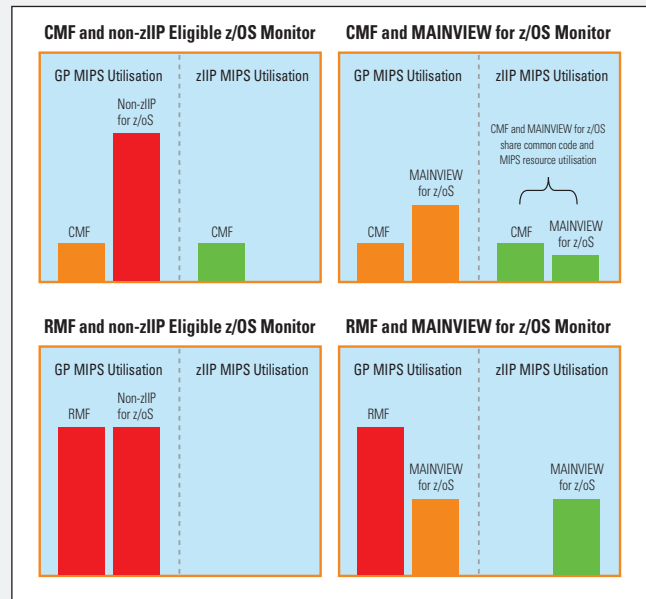


Chart 1

What are the Cost Benefits?

The potential cost benefits for each circumstance are shown in Chart 1 and explained below.

Running RMF and non-zIIP Eligible z/OS Monitor (lower left quadrant): Running RMF and another vendor z/OS monitor, you are collecting much of the same data twice, resulting in extra overhead. And, they both use expensive GP engine to do their work.

Running CMF and non-zIIP Eligible z/OS Monitor (upper left quadrant): CMF Monitor, even with another vendor’s z/OS monitor, can use fewer resources than RMF, AND, can run about half its work on “cheap” zIIP engines.

Running RMF and MAINVIEW for z/OS (lower right quadrant): MAINVIEW for z/OS running with RMF gives you the benefit of MAINVIEW efficiency plus MAINVIEW for z/OS executes half of its work on a zIIP.

Running CMF and MAINVIEW for z/OS (upper right quadrant): CMF Monitor plus MAINVIEW for z/OS – the ultimate in savings. They share collectors, so you eliminate the need for additional RMF overhead, they are more efficient than alternative products, and both run about half of their work on low overhead-cost zIIPs

These benefits are available whatever your current licensing position. Clearly if you are at a “convenient” time in your licensing cycle, or using WLC charging, the savings can be even greater.



Business runs on IT. IT runs on BMC Software.

Business thrives when IT runs smarter, faster, and stronger. That's why the most demanding IT organizations in the world rely on BMC Software across both distributed and mainframe environments. Recognized as the leader in Business Service Management, BMC offers a comprehensive approach and unified platform that helps IT organizations cut cost, reduce risk and drive business profit. For the four fiscal quarters ended September 30, 2008, BMC revenue was approximately \$1.83 billion. Visit www.bmc.com for more information.

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