



Rocket® Performance Essential

Customer optimizes IBM z/OS® environment with Application Performance Analysis utility



Why mainframe batch optimization is critical

The mainframe accounts for at least 75% of enterprise data generation. Amidst this data growth, mainframe batch windows are under pressure, while processing time is constrained by SLAs or license agreements. By optimizing batch, namely improving batch I/O throughput, you can reduce processing time, increase processing efficiency, and reduce costs associated with batch processing.

Challenge

A Rocket Software customer had Performance Essential implemented only for Virtual Storage Access Method (VSAM) data. VSAM is an IBM DASD file storage access method used in MVS, z/OS®, and OS/390 operating systems to organize data as files in mainframes.

The customer identified two goals to achieve with Performance Essential:

- Understand and confirm Execute Channel Program (EXCP)—a macro that initiates I/O—and processing savings for the current configuration targeting VSAM
- Determine if expanding the Performance Essential configuration to include non-VSAM data would result in similar savings

Solution

Rocket Performance Essential optimizes buffers for loading and use of data files. This optimization is measured in EXCPs. Lowering EXCPs generates a chain reaction that lowers I/O, accelerates job run times, reduces CPU usage, extends the life and capacity of your z/OS environment, and ultimately saves you time and money.

Performance Essential includes a low-overhead utility called Application Performance Analysis (APA) that analyzes batch data and finds high- activity candidates using SMF data to help lower EXCPs.

The Challenge?

Confirm processing savings with Performance Essential for VSAM data and determine if similar results could be achieved for non-VSAM data.

Results

By running APA, the customer discovered LOAD and PROCESS of VSAM data using Performance Essential significantly reduced EXCPs. PROCESS on non-VSAM data using Performance Essential also significantly reduced EXCPs, as seen below:

Customer Environment

2,000 MIPS z/OS environment with 6 LPARs

LPARs are a mix of Test and Production

APA reporting is an ESTIMATE of CPU reductions expressed in percentages

Report measurements:
Load of VSAM files – LSR
Process of VSAM – Non-Load
Process of non-VSAM files

APA Report Section Excerpt:

LPAR	Non-LOAD	LOAD	Non-VSAM
LPAR1	75%	59%	36%
LPAR2	92%	75%	56%
LPAR3	80%	99%	37%
LPAR4	91%	75%	87%
LPAR5	25%	99%	36%
LPAR6	0%	99%	90%

*Data is from a Rocket customer environment and anonymized

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