



DATASHEET

# Rocket Performance Essential

Increase Application Availability While Reducing CPU Resources and Costs

- Meet the demands of digital transformation by reducing I/Os by up to 90%
- Modernize enterprise applications with confidence
- Reduce batch processing time by up to 75%
- Reduce CPU costs and defer processor upgrades

Data processing volumes on mainframes continue to grow. Customers with varying needs expect uninterrupted online access to their data, even as service-level agreements become increasingly stringent. These trends and other factors put greater pressure on batch windows on IBM® z/OS® systems—windows that require constant tuning from skilled IT professionals to ensure all data is processed in a timely manner. Rocket® Performance Essential optimizes batch window processing without the need for manual tuning or application rewrites. Within hours of installing Performance Essential, you can decrease CPU and I/O resource consumption, increase application availability, and improve overall mainframe efficiency.

Batch windows are in the critical path of business continuity, digital transformation, application modernization, and other CEO-driven goals. Performance Essential replaces inefficient, fragmented manual tuning and “IT gymnastics” (such as data mirroring for parallel access) with intelligent, automated, and integrated optimization that:

- Reduces batch processing resources
- Shortens elapsed times significantly for batch processing across your z/OS system
- Enhances buffering automatically to improve batch cycles; no JCL changes needed
- Works with most data set types (VSAM and non-VSAM)
- Runs independently of any storage platform

With Performance Essential, you gain the flexibility to free up IT staff and mainframe resources to focus on growth-based initiatives.







## ► Modernize enterprise applications with confidence

Organizations everywhere want to open up enterprise applications on IBM z/OS systems for more up-to-the-minute data access. But these applications weren't built for today's always-online world and resist conventional methods for keeping data available longer. Their I/O characteristics are often inefficient for online use, resulting in more data than can be processed in given batch windows, and creating performance constraints.

Rocket Performance Essential tackles this I/O problem directly with intelligent buffer management that significantly reduces the number of I/Os for VSAM and non-VSAM data sets by up to 90 percent. This results in increased performance, and frees additional system resources for focusing on customer-facing and mission-critical applications. Performance Essential optimizes batch processing automatically across your applications portfolio, determining optimal buffering each time the data set is processed—all without touching your enterprise applications or JCL code.



*“We’re predicting, conservatively, cost savings of US \$6.6 million across our environment over five years using Performance Essential, through a reduction in elapsed time and in CPU cycles running VSAM and sequential data batch processing.”*

*- IT director, Fortune 100 financial institution*

## ► Reduce batch processing time by up to 75%

Once installed, Performance Essential can have an immediate impact on the performance of your critical systems and applications by reducing elapsed batch times by up to 75 percent. Performance Essential makes batch processing more predictable by monitoring and optimizing capacity, and generating models to predict system behavior based on historical performance data. Our Application Performance Analyzer finds high-activity candidates for optimization based on SMF data, allowing you to more efficiently manage batch and let IT staff focus on higher-value work.

## ► Reduce CPU costs and defer processor upgrades

With Performance Essential, you can increase your return on hardware investments, extending the useful life of your existing systems. By reducing CPU capacity consumed by batch processing, you can defer processor upgrades and save on software licensing. If you've begun using outsourced resources to help with data processing, you can even use Performance Essential to reduce outsourcing costs.

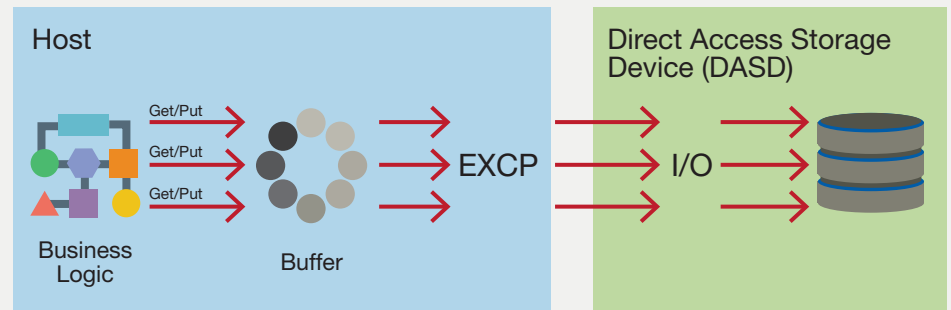


Inefficient I/O operations are common. Systems must rely on system defaults leading to improper tuning and a lack of flexibility when a change is required from sequential access to random access or vice versa. This ultimately leads to lower performance and a system that is not being utilized to its maximum capacity.



## IBM Z without Rocket Performance Essential

*Small buffer size → Many I/O operations*



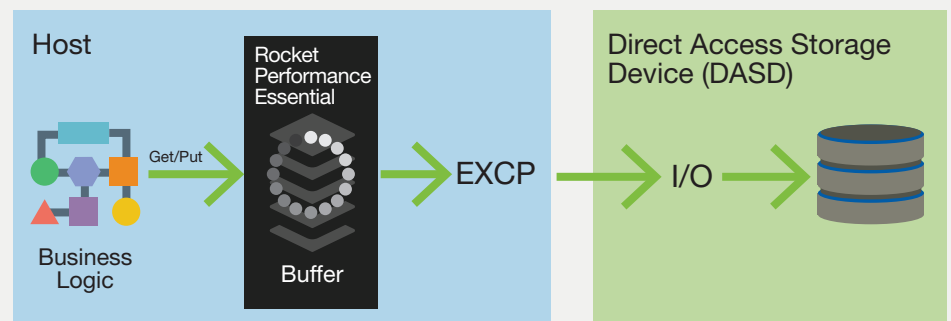
- Low performance
- System not utilized to its maximum capacity

Figure 1: I/O operations are inherently inefficient, resulting in slow performance

Rocket Performance Essential Systems automatically adjusts the buffers to allow more I/O to flow at a given time without rewriting applications or JCL. This reduces the number of I/O dramatically while increasing and freeing system resource to provide maximum utilization.

## IBM Z with Rocket Performance Essential

*Large buffer size → Fewer I/O operations*



- Automatically adjusts the buffering
- Reduces number of I/O dramatically
- Frees and increases system resources

Figure 2: Performance Essential allows more I/O to flow at a given time without rewriting applications or JCL

# Tech Specs

Rocket Performance Essential is compatible with all IBM Z systems and z/OS versions currently supported by IBM.

## Rocket® Mainstar® Family of Products

Rocket Mainstar systems optimization and data management solutions let you operate IBM® z/OS®, Db2®, and IMS™ systems at peak efficiency. Maximize the proven processing power of your mainframe in support of corporate web, mobile, and cloud initiatives. Control operating costs, simplify compliance reporting, and keep your mainframe data safe, while ensuring business continuity.

-  [rocketsoftware.com](http://rocketsoftware.com)
-  [info@rocketsoftware.com](mailto:info@rocketsoftware.com)
-  US: 1 855 577 4323  
EMEA: 0800 520 0439  
APAC: 612 9412 5400
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