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# The SAS® Scalable Performance Data Server® – Controlling the Beast!

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## ABSTRACT

Achieving maximum scalability in order to fully exploit symmetric multiprocessing and parallel I/O hardware has always been a challenge. The SAS® Scalable Performance Data Server®, a multi-threaded server, answers that challenge by using the capabilities of a Symmetric Multiprocessing (SMP) platform to provide scalable and high-performance data storage and access.

SAS Scalable Performance Data Server is designed to scale across multiple processors, such that adding additional processors and resources improves performance seamlessly. The application also provides tuning parameters that help you maximize performance by taking the best advantage of system resources.

This paper discusses how to effectively tune your SAS Scalable Performance Data Server parameters and configure your I/O subsystem for optimum performance. The paper includes the following topics:

- organizing your data to minimize I/O constraints
- configuring threads to ensure that they are adequately busy
- configuring memory to maximize performance for sorting and index creation
- influencing parallel WHERE planning and SQL join performance

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