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Characterizing the I/O Performance of HPC Platforms Using the I/O Performance Evaluation Suite

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The I/O Performance Evaluation Suite (IOPS), currently under development by the TADaaM team at INRIA Bordeaux, aims to streamline the performance analysis of I/O systems on HPC platforms. The primary objective of this tool is to automate the performance evaluation process, initially determining the optimal combination of parameters (such as the number of nodes, processes, file sizes, and access patterns) that enable the system to achieve peak I/O performance. Moreover, IOPS can also be used to examine how parameters of parallel file systems, such as the number of Object Storage Targets, affect system performance under distinct scenarios.

Student or Postdoc?

Email address

Co-Authors

CHPC User

CHPC Research Programme

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Primary author: Dr TEYLO*, Luan (INRIA Bordeaux)

Presenter: Dr TEYLO*, Luan (INRIA Bordeaux)

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