

# Why do we need an IO 500?

## Users need an IO 500

“I run my job on a new machine and I get X GB/s. Is that expected? I google the machine and I see that the storage is rated at 1 TB/s. Do I need to spend time tuning my IO?”

## Admins need an IO 500

“Users always ask me what IO patterns they should use for good performance. I have no idea.”

## Procurers need an IO 500

“I wrote a bad benchmark specification in my RFP and ended up with a bad storage system.”

# What will the IO 500 accomplish?

Bound expectations

A mix of the best and the worst IO patterns

Force honesty

Best and worst numbers are published for all to see

Create balanced focus on metadata and data

HPC has been over-emphasizing bandwidth for too long

Discover best practices and share with entire community

Submitters configure their own parameters for best

These parameters and other tuning are published

Please visit the webpage: <http://io500.org>

Please join the ISC BoF: Tuesday 11-12, Substanz 1&2