

ACCESS Metrics

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What we do in ACCESS Metrics

- Collect data on CI usage and performance
 - ACCESS, TACC Frontera, NAIRR Pilot, OSG/PATh, CloudBank, Campus CI, ...
- Provide tools for data retrieval and analysis
 - ACCESS XDMoD
 - Web portal (<https://xdmod.access-ci.org/>)
 - Python API (<https://github.com/ubccr/xdmod-data/>)
 - Open XDMoD
 - ACCESS NetSage
 - Web portal (<https://access.netsage.io/>)
- Conduct data analysis and reporting
- Develop additional tools and frameworks
 - Slurm simulator, CI simulator, application power monitoring, application performance diagnostics, value analytics, ...

ACCESS XDMoD data sources

- From the ACCESS allocations database & XTRAS:
 - Jobs submitted and run.
 - Queues and system accounts.
 - Users, PIs, and organizations.
 - Projects and allocations.
 - Fields of science.
 - Science Gateway users.
- From CiDeR
 - Resource specifications.
- From NSF.gov:
 - NSF awards.
- Direct from RPs:
 - Slurm (and other resource manager) accounting logs.
 - Compute node-level performance data.
 - OpenStack logs.
 - Open OnDemand logs.
 - Network logs (stored in NetSage).