## DAOS Foundation

ISC 2024 Meeting





# Technical Steering Committee (TSC)



#### TSC Structure

- Voting Members
  - Argonne: Kevin Harms
  - Enakta: Denis Barahtanov
  - o *Google*: Corwin
  - HPE: Lance Evans
  - o *Intel*: Liang Zhen
  - o *TSC Chair*: Johann Lombardi
- Meet weekly with rotating schedule
  - Members distributed across US, EU, China and Australia
- Meeting notes to be public





#### TSC Scope

- Define community roadmap (2.8+)
  - Gather contributions from all community members
  - Train model
  - Publish roadmap on <a href="https://daos.io">https://daos.io</a>
  - What release should be LTS?
- Produce community releases (2.8+)
  - Track progress, review jira tickets & test results
  - Tag release and sign/distribute packages
  - Provide docker images
- Organize DAOS development
  - Simplify contributions
  - Organize gatekeeping (members, responsibilities, process)
  - Document contribution process





#### TSC Scope

- Community test infrastructure
  - Goal: artifacts and logs available to all contributors
  - Expand coverage
    - ARM/AMD
    - More fabrics
    - More linux distributions
    - Cloud environments
    - Focus on pmem-less mode
- Working groups
  - Open to anyone
  - Forums for DAOS users/administrators/contributors to exchange
  - Rotating schedule
  - 3 working groups with more to be added





#### Usability/UX Working Group

- Group focused on raising the bar on ease-of-use
  - Users, administrators and GUI developers
- Address the usual gap between "users" and "developers"
- 76 tickets with "<u>usability label</u>" in Jira
  - E.g. inconsistent command arguments
  - E.g. how to quickly get a system health diagnostic?
- Prioritize some of those tickets for each new release





### Performance Working Group

- Forum to share DAOS performance results
  - o Benchmarks (IO500, DLIO, ...)
  - Real applications (LAMMPS, VPIC, Resnet50, WRF, ...)
- Report & discuss pathological behaviors
  - E.g. some iterations taking twice as much time with DLIO
- Explore new workloads & high-level interfaces to invest in
- Share recipes & produce documentation
- Review performance results for each release before GA





#### Infrastructure Working Group

- Generate DAOS packages outside Intel infrastructure
  - Prototyped by Intel
  - Rely on self-hosted runners from Github
    - Several ARM VMs available already
    - New VMs from GCP to be added soon
- Need space to store artifacts and logs
  - Exploring different options
  - Will be combined with a VM running a database & httpd to browse all logs
- Define what tests to run where
  - Ability to run ftest anywhere
  - Complex matrix: {CPU} x {Fabric} x {SSD config} x {Linux distro}





#### Questions?

- What other working groups should be prioritized?
- Shall we consider any changes to the way DAOS is packaged/shipped?
- Any organizations willing to contribute HW to be integrated in the DAOS CI?



