

Community Questions

Runtime System Software - Summit

Community buy-in

- Ecosystem Creation: How do we achieve community buy-in to an envisioned runtime architecture and semantics?
- Process: We need a process to continuously evaluate refine the envisioned runtime architecture and semantics while keeping focus on achieving an Exascale runtime system. What should this process be?

Ecosystem Creation

- Establish an open, transparent environment where the solution is not pre-determined
- Provide an organic process for community decision-making, ensuring that the best solution wins (Metrics)
- Avoid a single player or clique dominating
- Lower the barrier to participation by providing stable, reliable releases of candidate solutions to a broad audience

Process

- Build an independent, open-source foundation that ensures the different projects can be continuously available, evolved, and supported.
- The different projects will evolve based on the contributions made. As solutions demonstrate their superiority, they will attract more contributions as well as consensus.
- The community will organically migrate to the superior solution.
- DOE can continuously view progress and help fund projects to cover any critical shortfalls.

Who is in the Community

1. Exascale Computing Research Community
2. High Performance Computing User Community (current users)
3. Academic Community (future users)
4. Application Development Community (scientists and engineers)
5. Software Vendors
6. Hardware Vendors

Community Services

- Project Team Infrastructure - e.g. source code control, tooling, debuggers, collaboration/communication
- Release Engineering
- Technical Support
- IP management
- Education, instruction and training
- Community Development

Build on Experience – Community 2.0

Learn from the best Eclipse, Apache, Mozilla

- Building the community/ecosystem is top priority
- Support multiple projects and give them autonomy
- Support Regular Community Interaction
- Long-term commitment to quality through education and process

Avoid the pitfalls

- Commercial control of the purse strings leads to community breakdown
- Get to community support quickly and maintain community leadership



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