



*Support for Open
Source Software in High
Performance Computing*

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Our Charter

To promote the development, dissemination and use of open-source software (OSS) in high-performance computing (HPC).

Why?

Lack of an HPC software economy means that OSS is the only path to getting what we need.

Sometimes our organizations are financial or procedural hindrances in getting our jobs done.

What We Are

A non-profit organization (501(c)3 status applied for)
Keeps costs low, maintains flexibility

We intend a *small* number of organizational members
whose representatives form our Board of Directors
Krell Institute, founding member, www.krellinst.org,
provides infrastructure for OpenHPC services

Invitations are pending with four more organizations
BoD comprises distinguished HPC leaders to provide a
stable and long-term vision, and reviews of our work

What We Are Not

A “participatory membership” organization with every client as a voting member

A “for-profit” company that is beholden to shareholders to make a profit

A front for any lab, university, or agency—we pay for no security force, football team, or journalist

A funding source, but we can help groups to write proposals and broker contracts with funders

Our Initial Thrust

Engage advanced research projects with potential for HPC impact, and find vendor partners to help them to turn software into viable products with real users.

Benefits:

Projects gain resources for hardening, documenting, responding to users--what research \$ don't pay for.

Vendors gain preferential porting and tuning for their platforms, rapid bug fixing—by the best people.

Both gain from OpenHPC's flexible, low-cost organizational support to maximize the impact of investment in projects.

Client Projects



OPEN MPI

Open MPI: a new collaborative project that offers a uniquely capable messaging library

www.Open-MPI.org

Watch This Space! Discussions continue with leaders of projects in performance analysis, programming systems, and other HPC areas that can make a real difference.

Additional Current Directions

Consortium support, as desired, e.g.:

- Periodic/major meeting management--with no hassles
- Web/code repository support
- OSS advice and licensing, joint IP repository
- Umbrella organization for funding proposals
- “Shirts and swag” provider for conferences

Technical subject area development

- Identify researchers, vendors, consumers
- Bring them together with government program directors
- Develop white paper for future funding

Service, Flexibility, Low Cost

OpenHPC can serve clients with agility—whatever needs doing to support the work.

We can do this inexpensively, e.g.:

- In academia, support PI as our consultant and directly support graduate students, for < 10% overhead.
- Hire full-time project staff, with benefits, at overhead rates comparable with academia (<< industry or lab).

You (not your organization) decide the rates for PI consulting, grad student stipend, or employee salary.

- We subcontract to you cheaper than you can to us: our subcontract G&A is ~17% on first \$25K only (~\$4250/subcontract/year)

If your time is not free, consider OpenHPC!