



**ITPB Computational Data Infrastructure &
Collaboration Working Group will now become the
ITPB IDRE Working Group**



IDRE

MISSION STATEMENT

To support, advance and guide a campus wide program to position UCLA as a world leader in research and education in computational thinking using high performance computation, using data visualization, and using data analysis of large data sets and databases.



Charge for the Committee

To articulate a need, a vision, and a business plan for campus investment in cyberinfrastructure in support of research to the ITPB.

To articulate a need and a strategy for improving collaboration in computational based research.

To inform the ITPB of IDRE's activities towards obtaining the needed cyberinfrastructure and improving collaboration.

To obtain ITPB's endorsement of the vision and the activities, and of recommendations for campus investment in cyberinfrastructure.



Cluster hosting program has been developed

**Institute for Digital Research &
Education**

Cluster Hosting Program

Version 1.0.6

Updated: February 5, 2008

IDRE Data Center Hoffman2 Campus/Shared Cluster



Configuration for Hoffman2 when completed:

- Peak speed of over 73 TFlops
- Total memory of 12.4 terabytes
- 512TB of storage
- 64TB of scratch space
- Total power of 1.3 megawatts
- Over 11 miles of cabling
- Over \$1.3M a year for power
- 360 tons of air conditioning
- 2,500 square feet of floor space
- 1,600 nodes
- 10,400 processor cores
- Total weight of over 32 tons in 40 racks
- DDR Infiniband interconnect for message passing traffic
- Gigabit Ethernet for storage administration usage
- Total campus/researcher investment of approximately \$8.2M



Action Items

Endorse renaming of the committee.

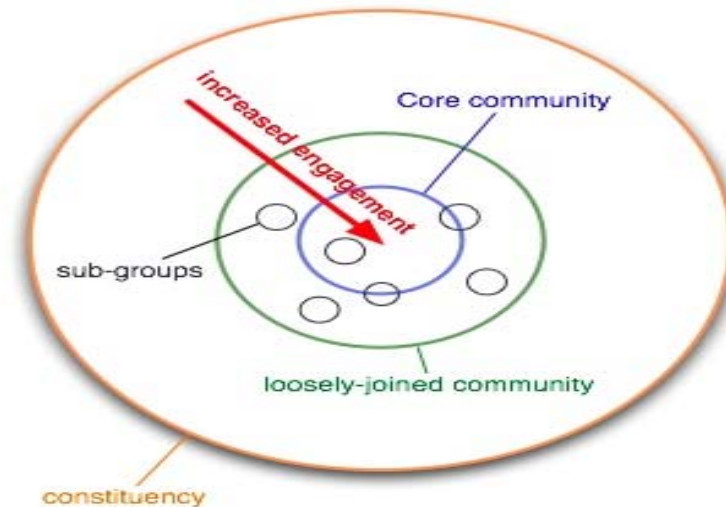
Endorse the charge of the committee.

What is IDRE?

- **An ACTIVE community of faculty, researchers, and students with:**
 - Common interests and overlapping research and education goals
 - A growing federation of Centers of Excellence
 - e.g., LONI, FSC, IPAM, ETC
 - A growing repository of knowledge, resources, and experiences

- **Components**

- Members
- Governance and organization
- Events
- Resources
 - Intellectual
 - Computer cycles and storage
 - Visualization



- **THE BENEFITS OF MEMBERSHIP IS THAT THERE IS NO “MEMBERSHIP”. ONLY THE ADDED VALUE OF ACHIEVING YOUR RESEARCH AND EDUCATION GOALS.**

What is IDRE?



- **Members**
 - All those who want to be a part of the community
- **Governance**
 - Director
 - Executive Committee
 - Ad Hoc Committees
 - Oversight from VCR and AVCIT & CIO
- **Resources**
 - Key OIT/ATS Staff have been assigned to IDRE
 - 5000 Sq. ft. of useable Data Center Space
 - Post-docs: currently recruiting for 2 post-doctoral positions
 - Additional resources acquired through grants
- **Activities**
 - Annual Kickoff Meeting
 - Speakers
 - Courses on parallel computing
 - Round Table Lunches
 - Focus Projects
 - Grant “Funded” Projects
 - Pilot Projects
 - Collaborative grant opportunities