

Strategic Planning for HPC/Research Computing Centers

Dr. Gowtham

Director of Research Computing, Information Technology
Adj. Asst. Professor, Physics and ECE

(906) 487-3593 · g@mtu.edu

- * We are new
 - * Shared and supported research computing facility since June 2013

- * We are new
 - * Shared and supported research computing facility since June 2013
- * We are small
 - * Less than 10,000 students
 - * ~ 300 active users of HPC

- * We are new
 - * Shared and supported research computing facility since June 2013
- * We are small
 - * Less than 10,000 students
 - * ~ 300 active users of HPC
- * We are remote
 - * ~ 200 miles north of Green Bay, WI

Funding model

- * Existing model
 - * One time investment (\$750k) in 2013 with vendor warranty
 - * One FTE with teaching, research and outreach responsibilities

Funding model

- * Existing model

- * One time investment (\$750k) in 2013 with vendor warranty
- * One FTE with teaching, research and outreach responsibilities

- * Proposed model

- * 1/3rd from the university budget
- * 1/3rd from research centers/institutes
- * 1/3rd from externally funded proposals
- * VPR annual funding to cover operational costs and repairs
- * One additional staff member to share the responsibilities

Journal of failed experiments

- * What didn't work
 - * Being only one of two people suggesting sustenance/expansion
 - * Donor/Alumni contributions

Journal of failed experiments

- * What didn't work
 - * Being only one of two people suggesting sustenance/expansion
 - * Donor/Alumni contributions
- * What seems to be working
 - * A real committee of productive researchers
 - * Short testimonials with observable impacts
 - * Institutional knowledge
 - * Creating an awareness with a list of pros and cons
 - * Community (CASC, HPC Advisory Council, NSF, SC, XSEDE) feedback

Additional references

- * <http://hpc.mtu.edu>
- * <http://superior.research.mtu.edu>
Projects, publications, degrees, and usage analytics
- * @MichiganTechHPC | @MTUHPCStatus