



अंतर विश्वविद्यालय त्वरक केंद्र  
Inter - University Accelerator Center  
विश्वविद्यालय अनुदान आयोग का एक स्वायत्त अनुसंधान केंद्र  
An Autonomous Research Centre of University Grants Commission  
नई दिल्ली New Delhi



## WORKSHOP ON HIGH PERFORMANCE COMPUTING

Inter University Accelerator Centre, New Delhi

11-13 March, 2015

### **ANNOUNCEMENT**

The High Performance Computing facility of IUAC provides super-computing access to a steadily expanding user-base drawn from universities, colleges and institutes across the country. Since it was first set-up in 2010, through a grant from the Department of Science & Technology, the HPC facility has come a long way in its goal of meeting the growing need for large-scale computing in academic research, especially for those who do not have access to facilities of a similar nature elsewhere. Today, more than about a hundred and thirty user groups use the facility for various lines of compute-intensive research in materials science, atomic and molecular physics, chemical and biological sciences, nuclear physics and radiation biology.

Kalki, the 96-compute-node (768-core) MPI cluster was set up in 2010 in the initial phase of the HPC facility. With a 20 Gbps Infiniband interconnect and an 8-node 6 TB pvfs2 file system, the distributed memory cluster still continues to see heavy usage five years down the line. The year 2012-2013 saw the most recent addition to the super-computing facility: the new 200-compute-node (3200-core) 65-Teraflop MPI cluster called k2. With a 40 Gbps Infiniband interconnect, 50 TB Lustre file system and much faster cache access, k2 enables further expansion of the facility's user base.

The three-day user workshop from the 11th to 13th of March, 2015, will focus on the research work done using these facilities as well as provide a platform for interaction for all current and potential users. The workshop is meant for faculty members and research workers who are working on simulations and large scale computing in the facility's focus areas. Reports on the research conducted with this facility, and expert talks addressing trends and techniques in these areas are planned. Participation of those with specific proposals for using the IUAC systems is especially encouraged.

Requests for participation and further information may please be e-mailed to [sumit@iuac.res.in](mailto:sumit@iuac.res.in), latest by the 27<sup>th</sup> of February, 2015.