

DRAFT

SC|05 StorCloud Vendor Call for Participation

After a successful debut at SC2004, StorCloud continues as a special initiative for SC|05 in Seattle, WA to build a High Performance Computing (HPC) storage capability showcasing HPC storage technologies (topologies, devices, interconnects) and applications. Portions of StorCloud will comprise state of the art heterogeneous devices and technologies to build a virtual on-site “storage on request” capability to support researchers and demonstrate high bandwidth applications at the conference. Other portions will be dedicated to supporting specific data intensive applications with predetermined configurations and requirements.

The goals of the “production” StorCloud are to:

- 1) Provide 1 PetaByte or greater of randomly accessible storage to SC2005 participants.
- 2) Approach a 1 TeraByte per second infrastructure bandwidth.
- 3) Provide a 1 GigaByte per second backup bandwidth.
- 4) Provide interoperability between storage systems
- 5) Manage and allocate resources to SC2005 participants.

NextGen StorCloud, new to SC|05, will showcase emerging storage technologies.

StorCloud will be architected and deployed entirely by volunteers from government, industry and academia.

StorCloud will combine network access mechanisms, storage devices, and control/management software to provide a standard storage capability to all conference research booths. A portion of the storage resources will be allocated to research booth host platforms throughout the convention by requested SCinet IP address. Storage allocations can be used for the duration of the conference. Special requests can be made via email. Additionally, StorCloud will host an applications competition, StorCloud Challenge.

The committee plans to set up a preliminary storage capability enabling applications with large data sets to populate the storage over a long period of time and then quickly move the data into the operational StorCloud configuration at the show. Additionally, application groups and vendors are encouraged to collaborate on specific application configurations, or proof of concept configurations, and will be supported as part of the StorCloud configuration.

Storage, file system and software vendors that are interested in participating in SC|05 StorCloud are encouraged to review the “Terms for Vendor Participation in SC|05 StorCloud” located at http://sc05.supercomp.org/initiatives/storcloud/Vendor_terms.pdf before notifying the StorCloud committee of their intent to participate via <http://www.vtksolutions.com/StorCloud/storcloudDB/public/addcontribution.php>

For information on the StorCloud initiative, please refer to <http://sc05.supercomputing.org/storcloud> or contact us at storcloud@sc05.supercomputing.org.