SAN DIEGO SUPERCOMPUTER CENTER

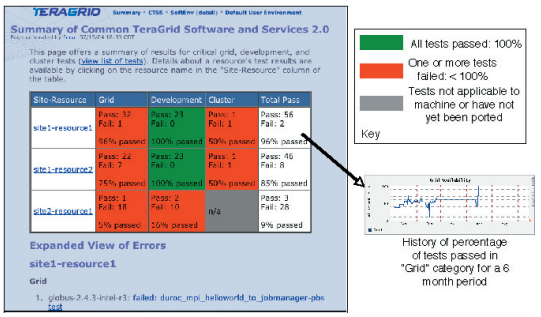
SDSC inca DATA TO DISCOVERY

Inca software for Grid testing, benchmarking and monitoring

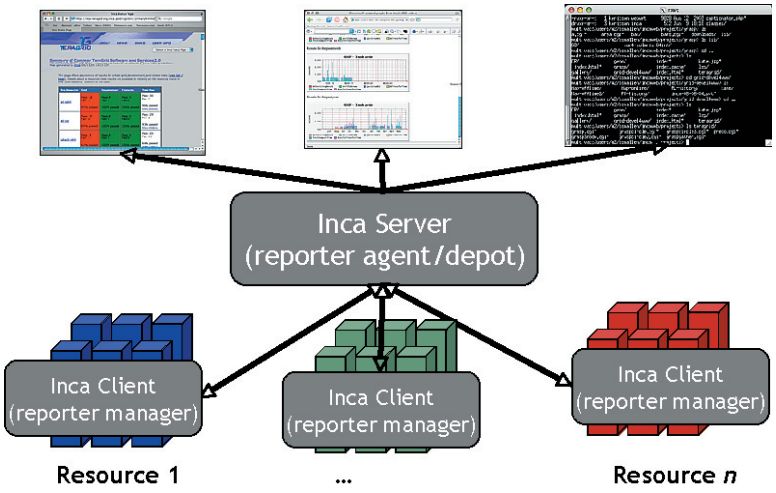
Determining whether a Grid is "up" in the face of complex Grid software deployments can be difficult and depends on the types of applications and users that utilize it. By detailing a set of software, services, and features that should be available on a Grid in a machine-readable format, a Grid can be tested periodically by an automated system to verify its health and usability to users. To this end, we've developed Inca as a flexible framework for the automated testing, benchmarking and monitoring of Grid systems. It includes mechanisms to schedule the execution of information gathering scripts, and to collect, archive, publish, and display data. While initially developed for TeraGrid, Inca has been released as part of NMI and has been successfully deployed to GEON, NGS, CINECA, and DEISA. An Inca 2.0 release is scheduled for early 2006.

News & Events

- Inca 2.0 release January 2006
- User workshop tentatively scheduled for February 2006



Software & services summary page



Inca collects, stores and distributes data

Sample results from the gather Grid assessment probe designed to emulate a grid application through transferring data, executing computation and transferring results

Measuring Grid middleware performance

Inca Use Cases

- Software stack validation and verification
- Network bandwidth measurements
- Grid benchmarking

For more information about Inca visit **http://inca.sdsc.edu** or e-mail **inca@sdsc.edu**.

SDSC
http://www.sdsc.edu

Founded in 1985, the San Diego Supercomputer Center (SDSC) has a long history of enabling science and engineering discoveries. Continuing this legacy into the next generation, SDSC's mission is to "extend the reach" of researchers and educators by serving as a core resource for cyber-infrastructure providing them with high-end compute, storage, and software technologies. SDSC is an organized research unit of the University of California, San Diego and is funded primarily by the National Science Foundation (NSF). With a staff of more than 400 scientists, software developers, and support personnel.