



TeraGrid™

# INCA

User-level Grid Functionality Testing & Performance Measurement

**SDSC**  
SAN DIEGO SUPERCOMPUTER CENTER

Inca is a framework for the automated testing, benchmarking and monitoring of Grid resources

Inca provides:

- Scheduled execution of information gathering scripts (reporters)
- Data management
  - collection
  - archiving
  - publishing

## Unique Features

Debugging

- Runs under a regular user account
- Flexibly expresses results
- Captures reporter execution context
- Securely re-runs reporters
- Archives full reports
- Reporters can be run outside framework

Compares results to a specification

Easily and securely configured

- Data collection
- Installation

## Who can use Inca?

Profiles and logs reporter resource use

### Grid/VO management

- Responsible for designing & maintaining Grid requirements
- Verify requirements are fulfilled by resource providers

### System administrators

- Detect user level problems
- Get information to understand problem context

### Grid users

- View results and compare to own
- Debug user account/environment issues
- Advanced users: feedback to Grid/VO

## NEW Inca 2.0 release

- Full report archiving
- Flexible querying interface
- Improved installation and configuration control
- GUI tool for centralized administration
- Proxy management via MyProxy
- Reporter sharing via repositories
- Binary distribution
- Profile reporter system usage
- Inca components communicate using SSL

**Inca 2.0 available summer 2006**  
**prerelease available now**

For more information and download of Inca, see  
<http://inca.sdsc.edu>



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