European DataGrid Software for Testbed 1

EDG Integration Team (ITeam)

October 29, 2001

CERN

Morning Outline

- Introduction (C. Loomis)
- Installation Tools (M. Barroso)
- Globus2 Configuration (A. McNab)

  Coffee Break

- Machine & Site Configuration (A. Waananen)
- User Interface (F. Donno)

  Lunch

Afternoon Demonstration

- Use of Installation Tools (M.Barroso, E.Fede)
- Configuration of Globus (S.Barale)
- Configuration of MDS (A.Cavalli)
- Interaction with Batch Systems (F.Hernandez)
- EDG Pkgs.: Installation & Configuration (E.Ronchieri, Y.Legre)
- Virtual Organizations (S.Nicoud)
- Network Monitoring (F.Bonnassieux)
- Feedback (B.Jones)

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Flavia Donno	Pietro Martucci	Anders Waananen
Eric Fede	Andrew McNab	Antony Wilson

Many thanks for their hard work!

Legal Issues

- Copyright Statement:

  Copyright (c) 2001 EU DataGrid - see http://www.edg.org//license.html

- License
  - Above link doesn't yet work! Will probably adopt Globus license.
  - Is a BSD-style license which puts few restrictions on use.
- Condor-G (used by WP1)
  - Not open source or redistributable.
  - Through special agreement, can redistribute within DataGrid.
- LCFG (used by WP4)
  - Uses GPL.

EDG Usage Guidelines

Site usage guidelines present logistical problem for EDG operation.

- Difficult for user because each set of guidelines is different.
  - User may not know on which sites jobs will run.
  - Dynamic Testbed configuration implies that user may need to agree to more as time goes on.
- Solution is to develop single set of Usage Guidelines.
  - Users agree to a single (fairly) static document.
  - System administrators agree that this replaces local usage guidelines.

NOTE: System administrators retain ultimate control over authorized users at their site through grid map file.

EDG Usage Guidelines

- Draft developed from CERN circular no.5 and CNRS guidelines.
  - Expect to have "final" version before first official release.
  - Found at http://marianne.in2p3.fr/documents/.
  - Comments to work package manager's list and integration team list.
    - hep-proj-grid-wp-mgt@cern.ch
    - hep-proj-grid-integration-team@cern.ch
- Official location will be:
  - http://www.edg.org/guidelines/

Site Administrator Support

- The ITeam will provide
  - documentation/training
  - bug reporting system (http://marianne.in2p3.fr/datagrid/bugzilla)
  - email support (hep-proj-grid-integration-team@cern.ch)
  - forum for site administrators to exchange experience/information
- Expect site administrators to provide
  - email contact aliases (grid.support@<site> and grid.siteadmin@<site>)
  - first line of support for users of site's resources

User Support

End users of the system will have access to the following support:

- Primary contacts:
  - local site administrator for operational problems
  - experimental representative for application problems
- bug reporting system (http://marianne.in2p3.fr/datagrid/bugzilla)
  - assigned to member of ITeam
  - passed to expert within work package if necessary
- email support (hep-proj-grid-integration-team@cern.ch)

Additional Information

Testbed Information see http://marianne.in2p3.fr/.

- Documentation
  - User's Guide, Installation Guide, Developer's Guide
  - http://marianne.in2p3.fr/documentation.
- Support
  - Contacts http://marianne.in2p3.fr/datagrid/contacts.
  - Bug reports: http://marianne.in2p3.fr/datagrid/bugzilla.
- Status
  - See http://marianne.in2p3.fr/datagrid.

(Frascati) Schedule

- October 22
  - First beta release of DataGrid (CERN & Lyon)
- November 15
  - Initial limited application testing finished.
  - EDG software ready for deployment on partner sites.
- November 30
  - Widespread deployment.
  - ITeam machines form development grid.
  - Testbed 1 open to all applications.
- December 25:
  - Testbed 1 finished.

Current Status

- Globus2
  - JobManager configured, tested with fork, PBS, and LSF.
  - MDS configured, FTree configured, some testing done.
  - Still encountering some severe bugs with Globus.
- EDG Middleware
  - Workload Mgt. (WP1) packages delivered, being ported to Globus2
  - Data Mgt. (WP2) packages delivered, working under Globus2
  - Information Systems (WP3) delivered, testing now.
  - Installation Tools (WP4) delivered, working with tests ongoing.
  - Network Monitoring (WP7) delivered, working.

Future Plans

- To be done before November 15
  - Develop test suite for Globus2.
  - Develop test suite for EDG packages (and interaction between them)
- December & January Evaluation
  - Evaluate performance of EDG software
  - Evaluate operational procedures
- Plans in 2002.
  - Series of incremental releases planned (Jan., Mar., May, July)
  - Maintain development testbed to support this.
  - Hopefully see some production deployment of EDG software.