How to (*) with CYCLE SERVER

http://www.cyclecomputing.com/

Ian Chesal <ichesal@cyclecomputing.com>
About Cycle Computing

• Started in 2005
• Bootstrapped, profitable from day one
• Employees in two countries
• Doubling in size every few years
• Customers: JPMC, Genetech, Lockheed-Martin, Electronic Arts, B of A, Pfizer, ConocoPhilips, many Fortune500s
Company of users, building tools for users
About Ian Chesal

• Started using in ~2003

• My first use was Condor 6.4.0

• Global R&D grid for Altera around Condor for FPGA, EDA software

• Joined Cycle Computing in April 2010
About CYCLESERVER
CycleServer HPC Management

- Business analytics for a HPC environment
- Telemetry from all the components in your grid
- Plug-in architecture for viewing, analysis and job submission interface
CycleServer For Users

- Job Control
- Submission Management
- Priority Management
- Usage Tracking
- Visualization

Tuesday, May 3, 2011
CYCLE Server For Administrators

- Automatic Monitoring
- Grid Status, Performance Reporting
- Node On/Off/Restart Control
- Command Audit Log (SOX/etc.)
CYCLESERVER For Enterprise

• Complete UI Customization
• Custom Submission Pipelines
• Domain Controller Integration
• Root Cause Analysis
• Billing & Metering
• Data Synchronization with CYCLECLOUD
HowTo....

➔ Installation
➔ Configuration
➔ Submissions
➔ Visualization
Where do I get it?
http://www.cyclecomputing.com/
How do I install it?
How do I configure it?
The diagram shows the relationships between various components of a grid computing system, specifically Cycle Computing's CycleServer solution.

**CycleServer**
- **REST HTTP with GZIP Compression**
- **Reusable Configuration and Local Caching**

**CycleAgent**
- `condor_schedd`

**CycleCacheConfig**
- `condor_negotiator`
- `condor_startd x 10000`

Additional notes:
- Config with pipes added in 2006

Visit [Cycle Computing's website](http://www.cyclecomputing.com/) for more information.
How do I submit jobs with it?
How do I view my pool with it?
Everything Else...

- Auditing
- User priorities
- Scheduler load balancing
- Derived attributes
- Groups, permissions
- AD integration
- UI skinning, corporate branding
- Dashboards
- Grid health status
- Advanced searching
- Data export
- Billing and charge back
- HTTPS REST API for job submission
- HTTPS REST API for data access
- Other scheduling technologies
- Advance telemetry reporting
Thank you.

For more information:
http://www.cyclecomputing.com/
http://www.cyclecloud.com/

Ian Chesal
ichesal@cyclecomputing.com