How to (.*) with CYCLESERVER

<u>http://www.cyclecomputing.com/</u>

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Tuesday, May 3, 2011



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



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Company of users, building tools for users



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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



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CIESERVER

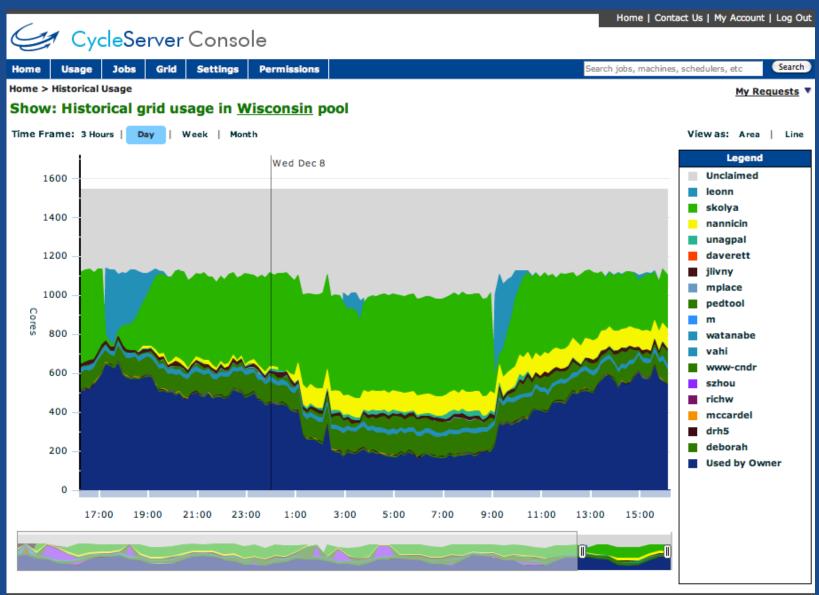


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CYCLESERVER HPC Management

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



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CYCLESERVER For Users

Job Control

- Submission Management
- Priority Management
- Usage Tracking
- Visualization



	CycleServer	Canada					Home Contact Us My Accou	unt Log Ou
Ś								
Home (Usage Jobs Grid	Settings Permis	sions			Se	earch jobs, machines, schedulers, etc	Search
Home > Jo	bs						My	Requests
Show: /	<u>All jobs</u> from <u>any</u>	one in <u>Wiscon</u>	<u>sin</u> po	ool that <u>v</u>	vere active at	any time		
View: Owner - Hold Release Remov		emove Reprioritize	Show L	Legend Refresh			Search:	
Owner	Total Jobs 🔻 Job Statu	s Qdate		lax Memory	Total Disk usage	Average #Runs		
pedtool	1161	2010-12-07 18:)1:04	254496	2625021	212		
www-c	187	2010-01-24 12:	6:22	215148	5622643	5959377		
yongya	100	2010-03-24 02:	24:09	39020	66500	3335		
nannicin	100	2010-12-08 00:	8:40	73800	1300	374		
nwp	30	2010-11-18 13:	2:14	1	30	30		
jlivny	27	2010-07-07 03:	20:40	211024	5864191	296988		
vahi	25	2010-06-30 18:	0:52	133868	1198657	842802		
mccardel	18	2009-07-01 16:	6:40	4423	9061	7240998		
skolya	13	2010-12-03 19:	7:13	1	1183	219		
richw	11	2009-11-09 14:	50:16	558	225133	392		
dthain	10	2010-04-12 15:	29:01	1	10			
deborah	10	2008-11-20 18:	31:35	5561	27470	16903423		
m	9	2009-09-10 17:	21:25	4405	17660	1094181		
pdudnik	5	2010-06-21 16:)8:48	14145820	100	10		
watana	3	2010-11-23 16:	36:43	2523124	15288	4		
nilay	3	2010-06-03 17:	52:50	6	18			
arun	3	2010-07-29 14:		9	47529	3		
ychung	2	2009-05-12 15:		1535	3025			
drh5	2	2010-08-25 17:		903416	42	16		
crubio	2	2010-12-08 02:		124744	11460	2		
vidhyam	1	2009-05-08 16:		2344	1027	183		
tuowang	1	2009-08-21 16:		484408	1554	517		
tannen	1	2010-10-20 10:		1	1			
palframa	1	2010-04-22 20:		2448328	1	3		
jshill4	1	2009-09-14 08:		4	377	17		
ilikhan	1	2010-05-19 12:		5	5	1		_
griswold	1	2009-11-23 14:4		1	1	1		
feichen	1	2009-07-21 23:		0	718	261		
faisal	1	2009-11-06 17:	3:52	93	93	1		

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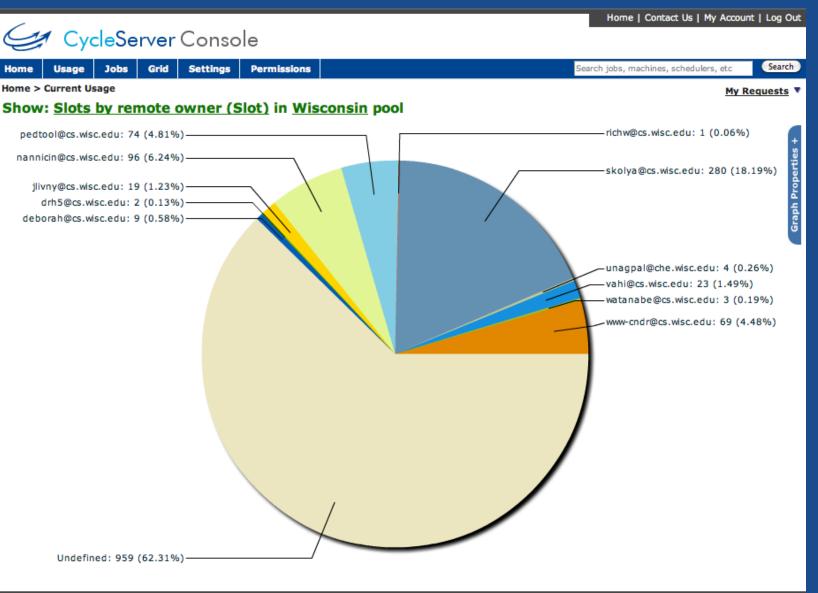


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CYCLESERVER For Administrators

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



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CYCLESERVER For Enterprise

- Complete UI Customization
- Q **Custom Submission Pipelines**
- Domain Controller Integration
- Root Cause Analysis
- Billing & Metering
- Data Synchronization with CYCLECLOUD



Sho

ome Usage Jo	bs Grid Sett	s Grid Settings Permissions						Search jobs, machines, schedulers, etc Sear				
iow: ClassAds	matching								<u>My Re</u>	equest		
LASSAD TYPES	View: Condor Statu	s 🔻 Reconfig On	Off Restart Vacate	Show Legend	Refresh	Sea	rch:					
	cyclePoolName	▲ User			Slo	t Count	OpSys	Arch	State			
Job (7727)	Clemson		4.121@LOWR11-19.CAMP	US.CU.CLEMSON.ED	JU	1	WINNT61	INTEL				
Master (3902)	Clemson		4.130@LOWR11-42.CAMP			1	WINNT61					
Negotiator (6)	Clemson		4.131@LOWR11-20.CAMP			1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.132@LOWR11-32.CAMP	US.CU.CLEMSON.ED	JU	1	WINNT61	INTEL				
Scheduler (1164)	Clemson	slot4@130.127.17	4.133@LOWR11-44.CAMP	US.CU.CLEMSON.ED	JU	1	WINNT61	INTEL				
Slot (20998)	Clemson	slot4@130.127.17	4.134@LOWR11-14.CAMP	US.CU.CLEMSON.ED	JU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.143@LOWR11-13.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
Submitter (95)	Clemson	slot4@130.127.17	4.144@LOWR11-39.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.161@LOWR11-17.CAMP	US.CU.CLEMSON.ED	JU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.166@LOWR11-47.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.168@LOWR11-6.CAMPU	S.CU.CLEMSON.ED	U	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.175@LOWR11-48.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.178@LOWR11-30.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.180@LOWR11-27.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.186@LOWR11-41.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.187@LOWR11-38.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.188@LOWR11-8.CAMPU	S.CU.CLEMSON.ED	U	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.191@LOWR11-18.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.208@LOWR11-31.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.211@LOWR11-10.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.214@LOWR11-23.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.215@LOWR11-26.CAMP	US.CU.CLEMSON.ED	U	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.217@LOWR11-15.CAMP	US.CU.CLEMSON.ED	JU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.221@LOWR11-16.CAMP	US.CU.CLEMSON.ED	U	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.232@LOWR11-43.CAMP	US.CU.CLEMSON.ED	JU	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.235@LOWR11-3.CAMPU	S.CU.CLEMSON.ED	U	1	WINNT61	INTEL				
	Clemson	slot4@130.127.17	4.239@LOWR11-45.CAMP	US.CU.CLEMSON.ED	DU	1	WINNT61	INTEL				
	Clamaan	elet4@120.127.19	1 12001 ADEDICH 2 CAM	UE CU CI EMEON E	DU	1	MATTAINET & 1	TATTEL				

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HowTo....

Installation
Configuration
Submissions
Visualization



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Where do I get it?



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http://www.cyclecomputing.com/



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How do linstall it?



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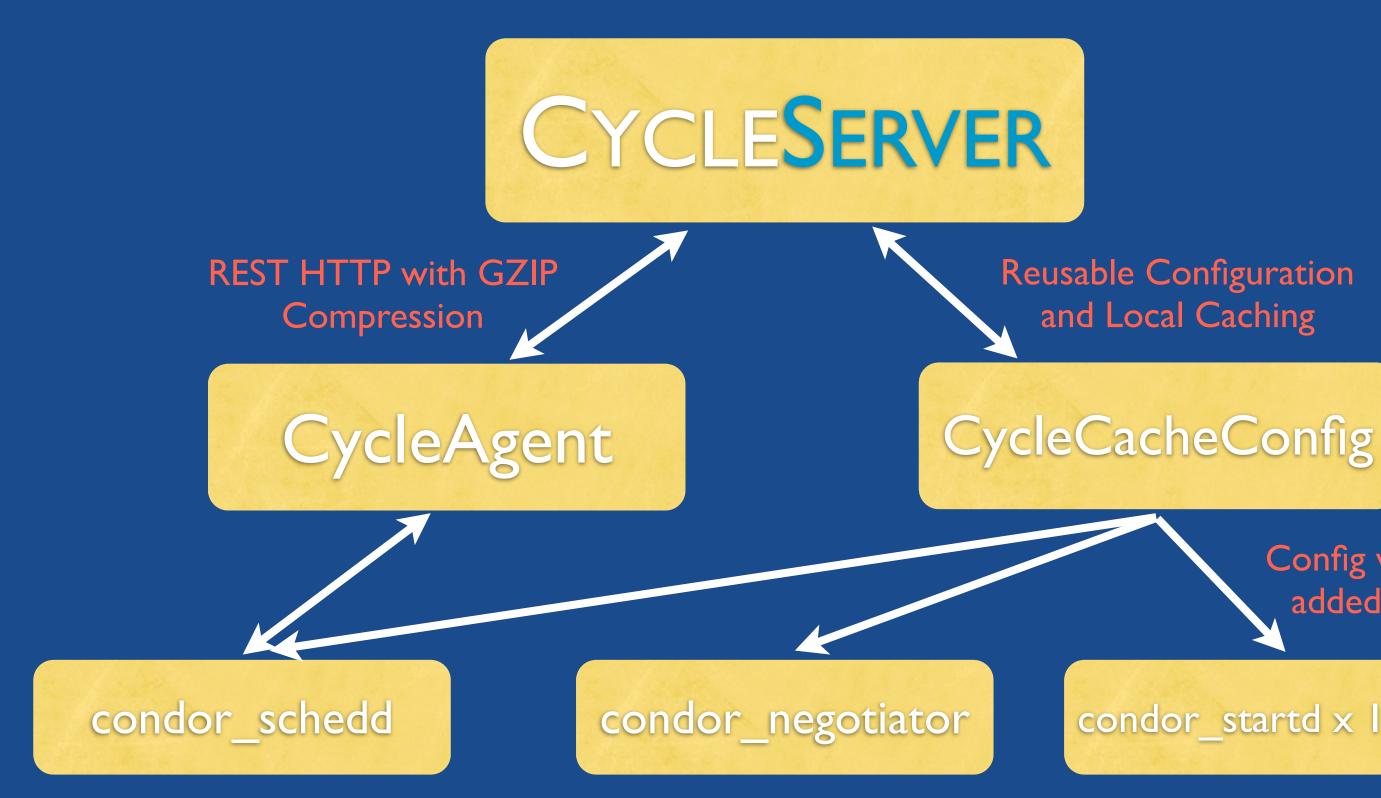


How do I configure it?



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Reusable Configuration and Local Caching

Config with pipes added in 2006

condor_startd x 10000

How do I submit jobs with it?



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How do I view my pool with it?



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Everything Else...

- Auditing
- User priorities
- Scheduler load balancing
- Derived attributes
- Groups, permissions
- AD integration
- UI skinning, corporate branding
- Dashboards

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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

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For more information: <u>http://www.cyclecomputing.com/</u> <u>http://www.cyclecloud.com/</u>

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