

## Architecture at UCSD (Late Binding based System)

- ◆ CRABSERVER (glidein-2.t2.ucsd.edu)

### Glidein-WMS

- ◆ Gfactory (glidein-1.t2.ucsd.edu)
- ◆ Collector (glidein-collector.t2.ucsd.edu)
- ◆ Frontend (glidein-frontend.t2.ucsd.edu)
- ◆ Generic Communication Broker (glidein-gcb-1.t2.ucsd.edu)

- ◆ JobMon: Detailed user Monitoring System (glidein-mon.t2.ucsd.edu)
  - ◆ Work in progress ..

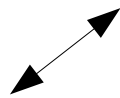
From client or CMS User point of view (Use the following in the crab.cfg):

*scheduler = glidein*  
*server\_name = ucscd*

# Crabserver with glideins @ UCSD

## CRABSERVER

- **Local MySQL Database**
- **Command Manager**
  - *Interpret commands and dispatch to the components*
- **Crabserver Worker**
  - *All submission activities*
- **TaskTracking**
  - *keep info about task under execution*
  - *inform notification service*
  - *generate report about the task*
- **TaskLifeManager**
  - *remove the dropBox after the task is finished*
  - *manage space in the dropBox*
  - *contact notification service at the end of task*
  - *manage the lifetime of the task*
- **JobTracking**
  - *Check the status of the task/Job*
  - *Query interval, Jobs to poll, Poll interval etc.*
- **GetOutput**
  - *Get output operations requested by the JobTracking*



Proxy delegation service  
- myproxy.cern.ch

Gridftp server

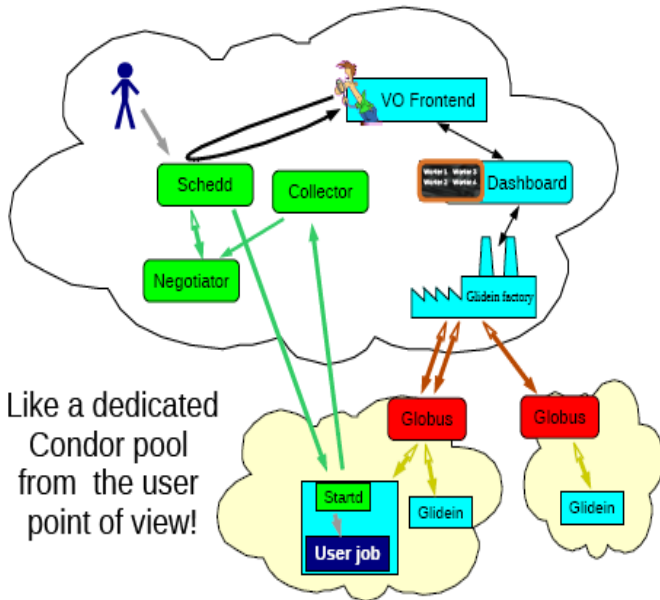
Glide-in WMS

GUMS + PRIMA

GUMS + glxexec

## glideinWMS architecture

### Schematic view



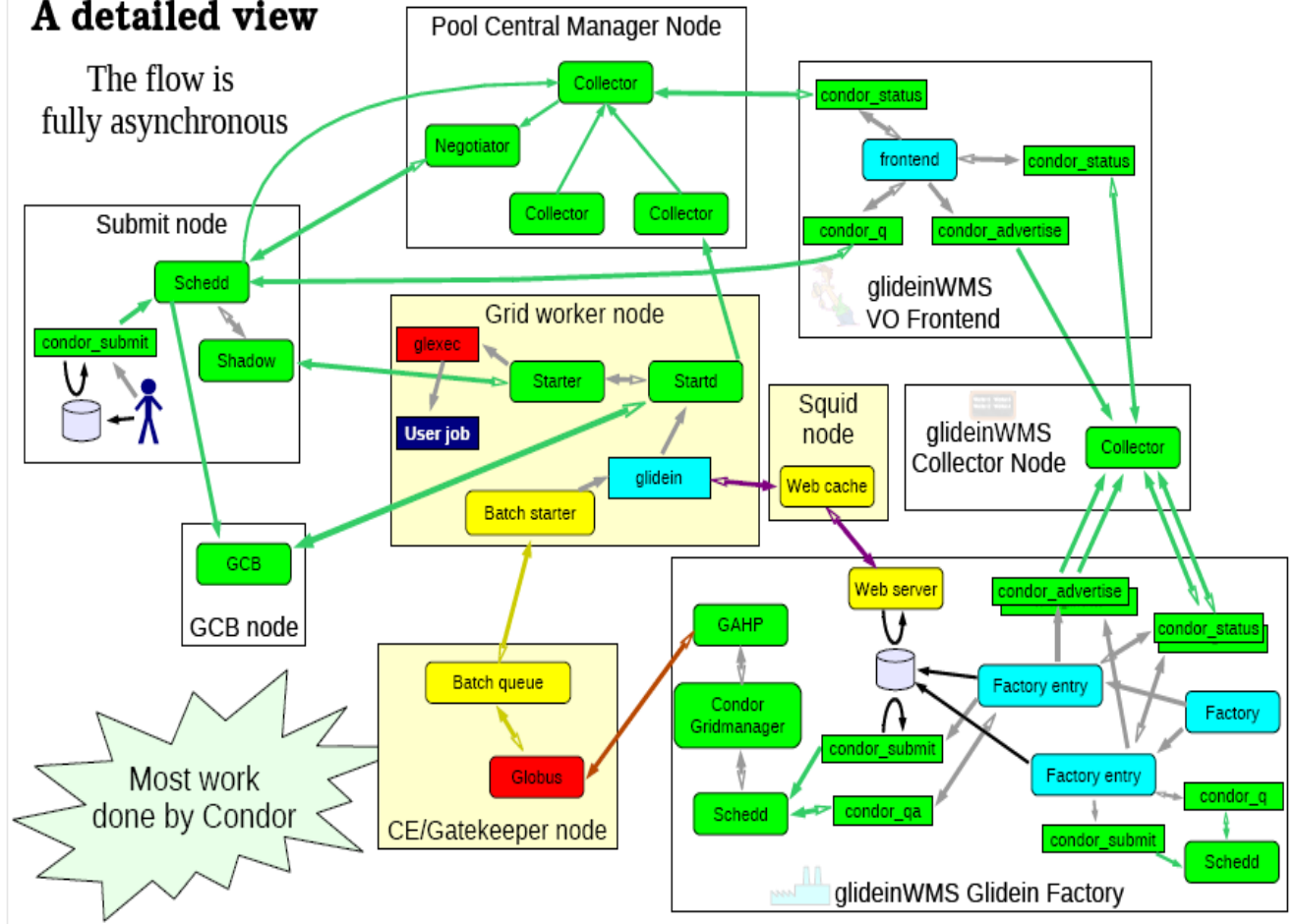
### Legend:

- Condor process
- glideinWMS process
- Grid software
- System software

- glideinWMS domain
- Grid domain  
(OSG, EGEE and NorduGrid tested)

### A detailed view

The flow is fully asynchronous



For more details see <http://www.uscms.org/SoftwareComputing/Grid/WMS/glideinWMS/doc.html>

# Crabserver with glideins @ UCSD

JobMon: (thanks to Subir Sarker, INFN)

Identity: /DC=org/DC=doegrids/OU=People/CN=Sanjay Padhi 496075#[admin]

Jobid

ListBox    Text

582951
583017
583522
583756
583847
583962
584095
584163
584349
584386
584393
584429
584551
584624
584661
584764
584806
584816
584817

Show Local ID ▾ 2697 Entries

State    Selection    Diagnosis    Query Builder

- Running
- Queued
- Completed
- Unknown

From 2009/2/28

To 2009/2/28

Job Info

Local JobID	582951
Status	2
Local User	uscms1369 (uscms1369)
Queue	uscms1369
Submitted at	2009-02-27 07:43:20-08
Started at	2009-02-27 07:43:20-08
Finished at	2009-02-27 07:43:20-08
Exit Status	2
CPU Time	197
Wall Time	?
Execution Host	slot35@cabinet-6-6-1.t2.ucsd.edu

Admin    Job ps    WN top    Work Dir    Job Dir    Job Output

Grid JobID	osg-gw-5.t2.ucsd.edu#582951.0#1235749400
CE ID	osg-gw-5.t2.ucsd.edu
RB/WMS	n/a
Subject	"/DC=org/DC=doegrids/OU=People/CN=Igor Sfiligoi 673872"
Proxy Validity	197
Role	"/DC=org/DC=doegrids/OU=People/CN=Igor Sfiligoi 673872"
Job Description	"/DC=org/DC=doegrids/OU=People/CN=Igor Sfiligoi 673872"

Event Logger    Error Logger    Debug Logger    Configuration

Job Option

- Show My Jobs only
- Auto update JobInfo
- Show Detail



# JobRobots using Crabserver @ UCSD

JOB DETAILED VIEW

total: 25987 (seeing 0 to 50)

prev 50 next 50

num	JobId	Site	Grid Status	ExitCode	IdInTask	NEVReq	NEVProc	Submitted	Started	Finished	Task	IP	Target
1	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/1">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/1</a>	T2_BE_IIHE	DONE	0	1	642	642	2009-02-23 00:10:14	2009-02-23 00:40:50	2009-02-23 00:50:55	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
2	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/10">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/10</a>	T2_BE_IIHE	DONE	8001	10	0	0	2009-02-23 00:10:15	2009-02-23 00:42:41	2009-02-23 00:42:50	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
3	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/100">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/100</a>	T2_BE_IIHE	DONE	0	100	642	642	2009-02-23 00:10:21	2009-02-23 01:04:58	2009-02-23 01:13:48	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
4	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/11">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/11</a>	T2_BE_IIHE	DONE	0	11	642	642	2009-02-23 00:10:15	2009-02-23 00:42:39	2009-02-23 00:53:43	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
5	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/12">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/12</a>	T2_BE_IIHE	DONE	8001	12	0	0	2009-02-23 00:10:15	2009-02-23 00:42:41	2009-02-23 00:42:53	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
6	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/13">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/13</a>	T2_BE_IIHE	DONE	0	13	642	642	2009-02-23 00:10:15	2009-02-23 00:43:19	2009-02-23 00:53:43	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
7	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/14">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/14</a>	T2_BE_IIHE	DONE	0	14	642	642	2009-02-23 00:10:15	2009-02-23 00:43:40	2009-02-23 00:55:11	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
8	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/15">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/15</a>	T2_BE_IIHE	DONE	8001	15	0	0	2009-02-23 00:10:15	2009-02-23 00:43:39	2009-02-23 00:43:49	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
9	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/16">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/16</a>	T2_BE_IIHE	DONE	0	16	642	642	2009-02-23 00:10:15	2009-02-23 00:44:02	2009-02-23 00:57:06	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
10	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/17">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/17</a>	T2_BE_IIHE	DONE	8001	17	0	0	2009-02-23 00:10:15	2009-02-23 00:46:35	2009-02-23 00:46:46	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
11	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/18">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/18</a>	T2_BE_IIHE	DONE	0	18	642	642	2009-02-23 00:10:15	2009-02-23 00:46:19	2009-02-23 00:58:27	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
12	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/19">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/19</a>	T2_BE_IIHE	DONE	8001	19	0	0	2009-02-23 00:10:15	2009-02-23 00:46:17	2009-02-23 00:46:28	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
13	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/2">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/2</a>	T2_BE_IIHE	DONE	0	2	642	642	2009-02-23 00:10:14	2009-02-23 00:40:50	2009-02-23 00:51:00	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
14	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/20">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/20</a>	T2_BE_IIHE	DONE	0	20	642	642	2009-02-23 00:10:15	2009-02-23 00:46:19	2009-02-23 00:58:06	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE
15	<a href="https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/21">https://glidein/00d2173d96cb6bc45c1271ee10ca54017f665126/21</a>	T2_BE_IIHE	DONE	0	21	642	642	2009-02-23 00:10:15	2009-02-23 00:46:22	2009-02-23 00:59:01	belforte_crab_0_090223_010949	193.190.247.140	44_Selected_SE

Entertaining about ~25k JobRobot jobs !!!

## Support and feedback

Issues, problems, feedback to - [t2support@physics.ucsd.edu](mailto:t2support@physics.ucsd.edu)

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