Release 1.2 Status

Ingo Augustin
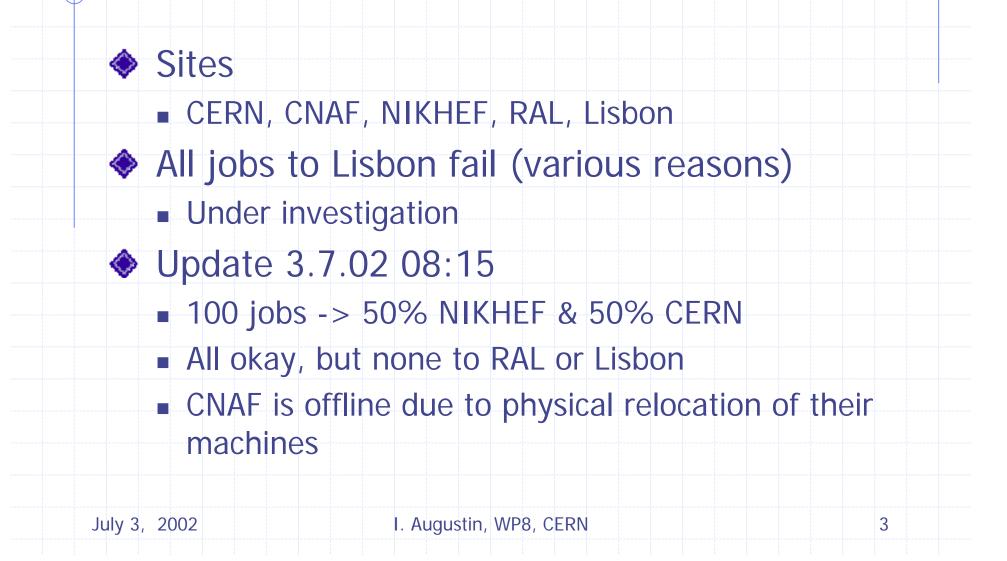CERN

Recent main activities

- **Intensive debugging effort of WP1 and Loose Cannons on Job Management**

  - Memory leaks
    - Scalability & reliability

  - Bugs
    - Inter-process communication and error handling

  - Inadequate Linux configuration
    - Number of Inodes, Max files, memory...

WP1 software now quite robust

Status 2.7.02 16:00

◆ **Sites**
- CERN, CNAF, NIKHEF, RAL, Lisbon

◆ **All jobs to Lisbon fail (various reasons)**
- Under investigation

◆ **Update 3.7.02 08:15**
- 100 jobs -> 50% NIKHEF & 50% CERN
- All okay, but none to RAL or Lisbon
- CNAF is offline due to physical relocation of their machines

Job Management

◆ Tests performed on

- UI: testbed002
- WMS: lxshare0380

◆ Error rates

- Down to 4% (globus failures)
- ~1% using re-submission

◆ Reasonable defaults needed for job matching parameters

- Traversal time, etc…
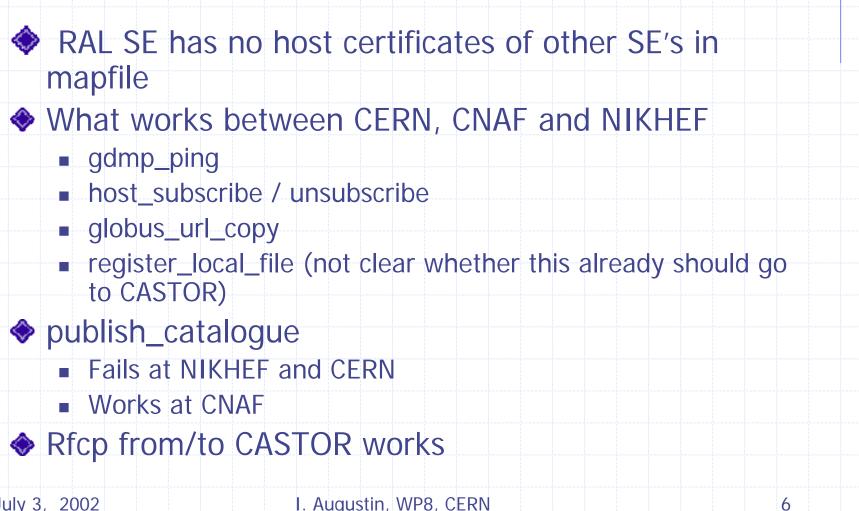- Nearly a daily problem that one site gets (nearly) all the jobs

Other Problems

- **Resource Broker**
  - A small memory leak
  - Requires restart after ~10000 jobs
  - Once per day or night?

- **Job Submission Service**
  - Freezes when more than 600 threads are exceeded
  - Will be a problem on the semi-production testbed

SE tests

◆ RAL SE has no host certificates of other SE's in mapfile

◆ What works between CERN, CNAF and NIKHEF

- gdmp_ping
- host_subscribe / unsubscribe
- globus_url_copy
- register_local_file (not clear whether this already should go to CASTOR)

◆ publish_catalogue

- Fails at NIKHEF and CERN
- Works at CNAF

◆ Rfcp from/to CASTOR works

replicate_get

	To CERN	To CNAF	To NIKHEF	To RAL No host certificates in mapfile
From CERN		failed	ok	
From CNAF	failed		failed	
From NIKHEF	ok	failed		
From RAL				

Priorities

- ◆ **Strong effort on SE/replication needed**
  - ■ Similar to the WP1/LC campaign
- ◆ **The thread limit in JSS has to be tackled**
  - ■ Multiple instances (one or more per VO)?
  - ■ Secondary servers?
  - ■ Stop accepting jobs?
- ◆ **Configuration problems MUST be sorted out**