



ALICE report



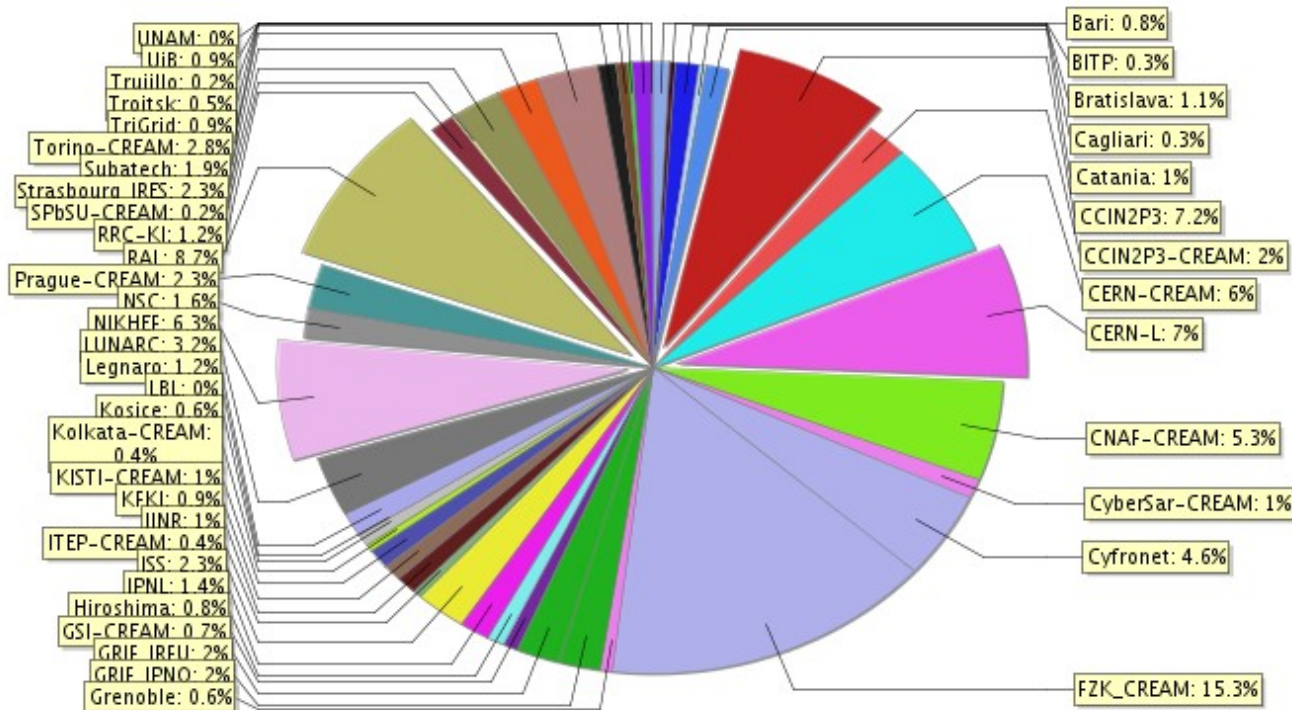
Site software improvements



- Upgrade of voboxes to SL5/64b
 - ◆ October 2009, following transition of CC workers
 - ◆ Solved serious problem: compilation of user code in grid jobs
- Introduction of CREAM-CE in ALICE production
 - ◆ January 2010
- 2 voboxes : 1 for LCG-CE + 1 for CREAM-CE
- 3 new xrootd SE created (~100 TB total capacity)
 - ◆ Compilation of ALICE authentication library on Solaris (!!!)
 - Future of CC+ALICE+xrootd+Solaris under discussion
 - ◆ No more use of dCache (except FTS)
- Staging HPSS → xrootd
 - ◆ Under test

ALICE jobs per site

Average running jobs



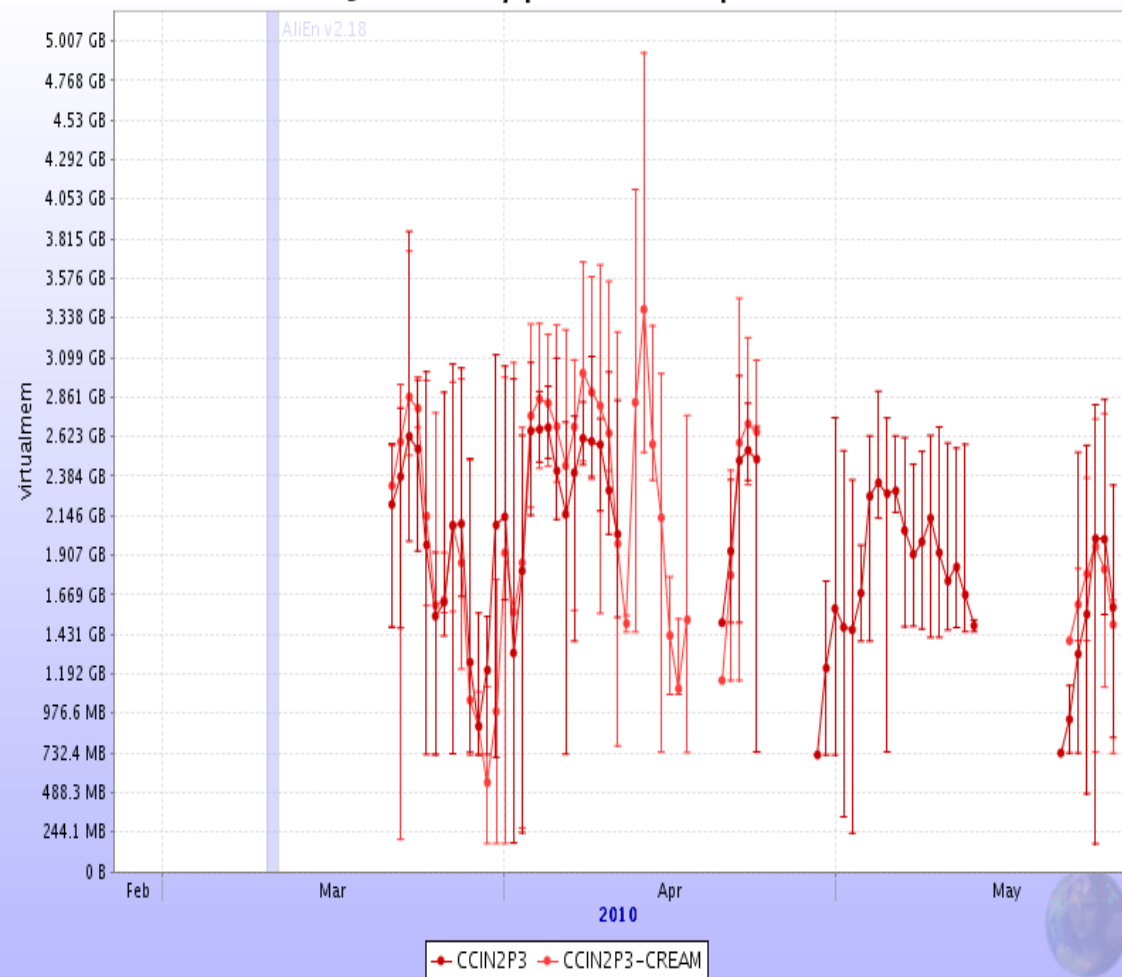
9% of all
ALICE jobs
done at
CCIN2P3



Memory profile

- Large fluctuations of memory used in ALICE jobs
- Constant effort to keep it low
- Adjustments needed in our sites
 - more memory allowed
 - very long queue authorized for reco. jobs

Job memory profiles for aliproD





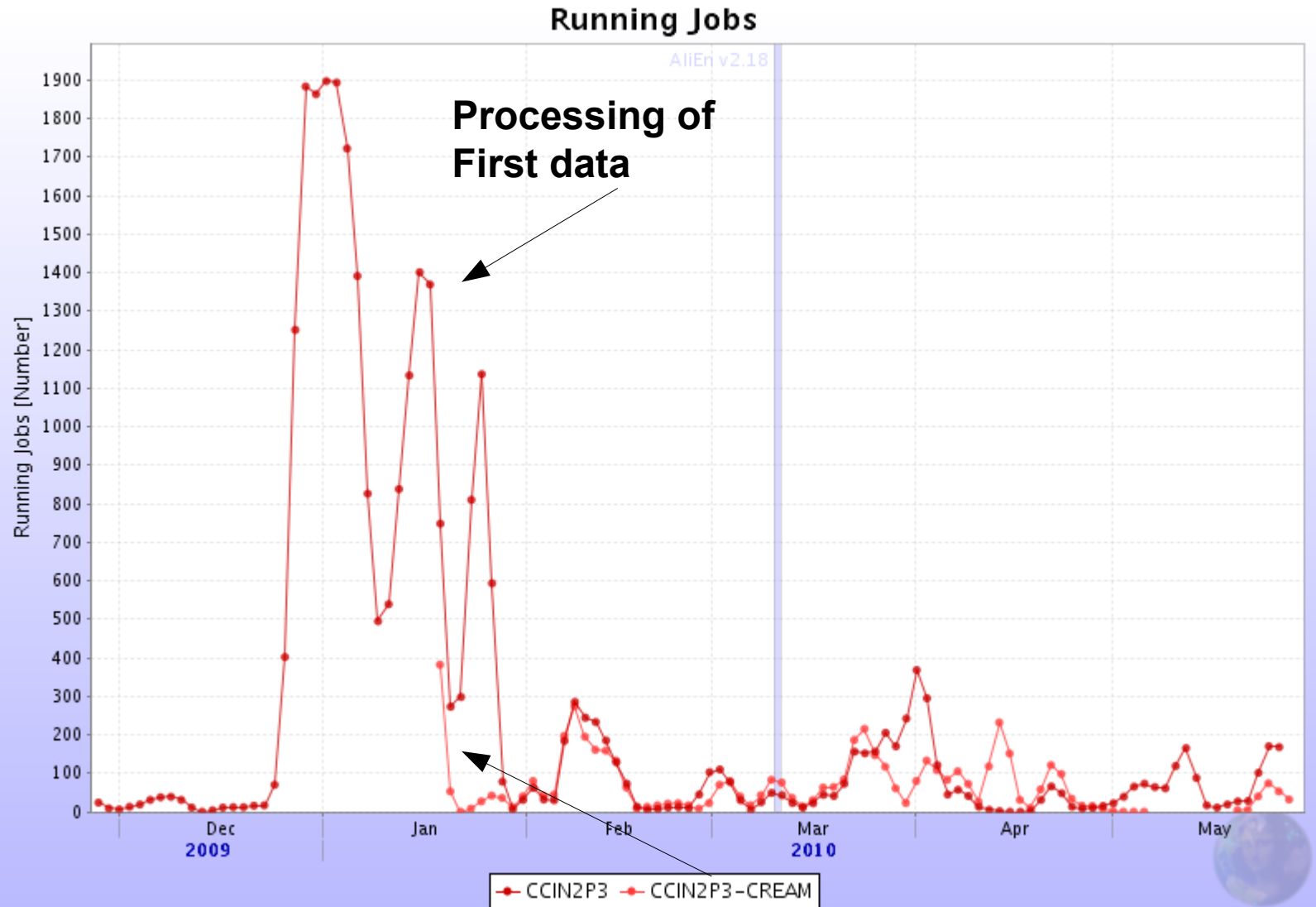
Raw data copy to disks (xrootd)

- small amount of raw data transferred from CERN to CC (~200GB)

- data processed afterwards in several reconstruction passes

		alice::ccin2p3::se	- any -					Filter
ID	Path	Target SE	Status	Progress	Files	Total size	Started	Ended
190.	/alice/data/2010/LHC10b/000114740/collection	ALICE::CCIN2P3::SE	Done		2	72.8 MB	14 Apr 2010 11:48	14 Apr 2010 14:22
189.	/alice/data/2010/LHC10b/000114743/collection	ALICE::CCIN2P3::SE	Done		2	48.82 MB	14 Apr 2010 11:48	14 Apr 2010 14:21
184.	/alice/data/2010/LHC10b/000114778/collection	ALICE::CCIN2P3::SE	Done		4	371.4 MB	14 Apr 2010 11:48	14 Apr 2010 14:20
107.	/alice/cern.ch/user/a/admin/collection.alice::ccin2p3::dcache	ALICE::CCIN2P3::SE	Error		11746	208 GB	18 Dec 2009 11:13	18 Dec 2009 16:30
102.	/alice/data/2009/LHC09d/000105057/collection	ALICE::CCIN2P3::SE	Done		5	1.444 GB	17 Dec 2009 06:41	17 Dec 2009 17:38
99.	/alice/data/2009/LHC09d/000105054/collection	ALICE::CCIN2P3::SE	Done		10	2.984 GB	17 Dec 2009 06:41	17 Dec 2009 17:38
89.	/alice/data/2009/LHC09d/000104876/collection	ALICE::CCIN2P3::SE	Done		3	750.6 MB	17 Dec 2009 06:41	17 Dec 2009 15:52
88.	/alice/data/2009/LHC09d/000104867/collection	ALICE::CCIN2P3::SE	Done		15	12.96 GB	17 Dec 2009 06:41	17 Dec 2009 18:03
77.	/alice/data/2009/LHC09d/000104845/collection	ALICE::CCIN2P3::SE	Done		28	24.57 GB	17 Dec 2009 06:41	17 Dec 2009 18:03
76.	/alice/data/2009/LHC09d/000104841/collection	ALICE::CCIN2P3::SE	Done		9	5.692 GB	17 Dec 2009 06:41	17 Dec 2009 15:51
73.	/alice/data/2009/LHC09d/000104825/collection	ALICE::CCIN2P3::SE	Done		3	7.908 GB	17 Dec 2009 06:41	17 Dec 2009 18:03
71.	/alice/data/2009/LHC09d/000104824/collection	ALICE::CCIN2P3::SE	Done		6	15.97 GB	17 Dec 2009 06:41	17 Dec 2009 18:03
70.	/alice/data/2009/LHC09d/000104821/collection	ALICE::CCIN2P3::SE	Done		3	3.207 GB	17 Dec 2009 06:41	17 Dec 2009 18:03
68.	/alice/data/2009/LHC09d/000104803/collection	ALICE::CCIN2P3::SE	Done		6	10.63 GB	17 Dec 2009 06:41	17 Dec 2009 18:03
64.	/alice/data/2009/LHC09d/000104801/collection	ALICE::CCIN2P3::SE	Done		12	28.88 GB	17 Dec 2009 06:41	17 Dec 2009 17:02
62.	/alice/data/2009/LHC09d/000104800/collection	ALICE::CCIN2P3::SE	Done		6	10.84 GB	17 Dec 2009 06:41	17 Dec 2009 17:02
60.	/alice/data/2009/LHC09d/000104799/collection	ALICE::CCIN2P3::SE	Done		3	5.534 GB	17 Dec 2009 06:41	17 Dec 2009 17:02
56.	/alice/data/2009/LHC09d/000104792/collection	ALICE::CCIN2P3::SE	Done		18	45.28 GB	17 Dec 2009 06:41	17 Dec 2009 17:02
54.	/alice/data/2009/LHC09d/000104618/collection	ALICE::CCIN2P3::SE	Done		3	323.2 MB	17 Dec 2009 06:41	17 Dec 2009 15:51
45.	/alice/data/2009/LHC09d/000104316/collection	ALICE::CCIN2P3::SE	Done		3	2.736 GB	17 Dec 2009 06:41	17 Dec 2009 15:51
42.	/alice/data/2009/LHC09d/000104160/collection	ALICE::CCIN2P3::SE	Done		3	5.001 GB	17 Dec 2009 06:41	17 Dec 2009 17:35
40.	/alice/data/2009/LHC09d/000104159/collection	ALICE::CCIN2P3::SE	Done		3	490 MB	17 Dec 2009 06:41	17 Dec 2009 15:51
36.	/alice/data/2009/LHC09d/000104155/collection	ALICE::CCIN2P3::SE	Done		3	1.338 GB	17 Dec 2009 06:41	17 Dec 2009 15:51
32.	/alice/data/2009/LHC09d/000104080/collection	ALICE::CCIN2P3::SE	Done		3	12.42 MB	17 Dec 2009 06:41	17 Dec 2009 15:51
30.	/alice/data/2009/LHC09d/000104073/collection	ALICE::CCIN2P3::SE	Done		3	151.3 MB	17 Dec 2009 06:41	17 Dec 2009 15:51
27.	/alice/data/2009/LHC09d/000104070/collection	ALICE::CCIN2P3::SE	Done		3	1.186 GB	17 Dec 2009 06:41	17 Dec 2009 15:51
26.	/alice/data/2009/LHC09d/000104068/collection	ALICE::CCIN2P3::SE	Done		3	528.8 MB	17 Dec 2009 06:41	17 Dec 2009 15:51

Running jobs since December



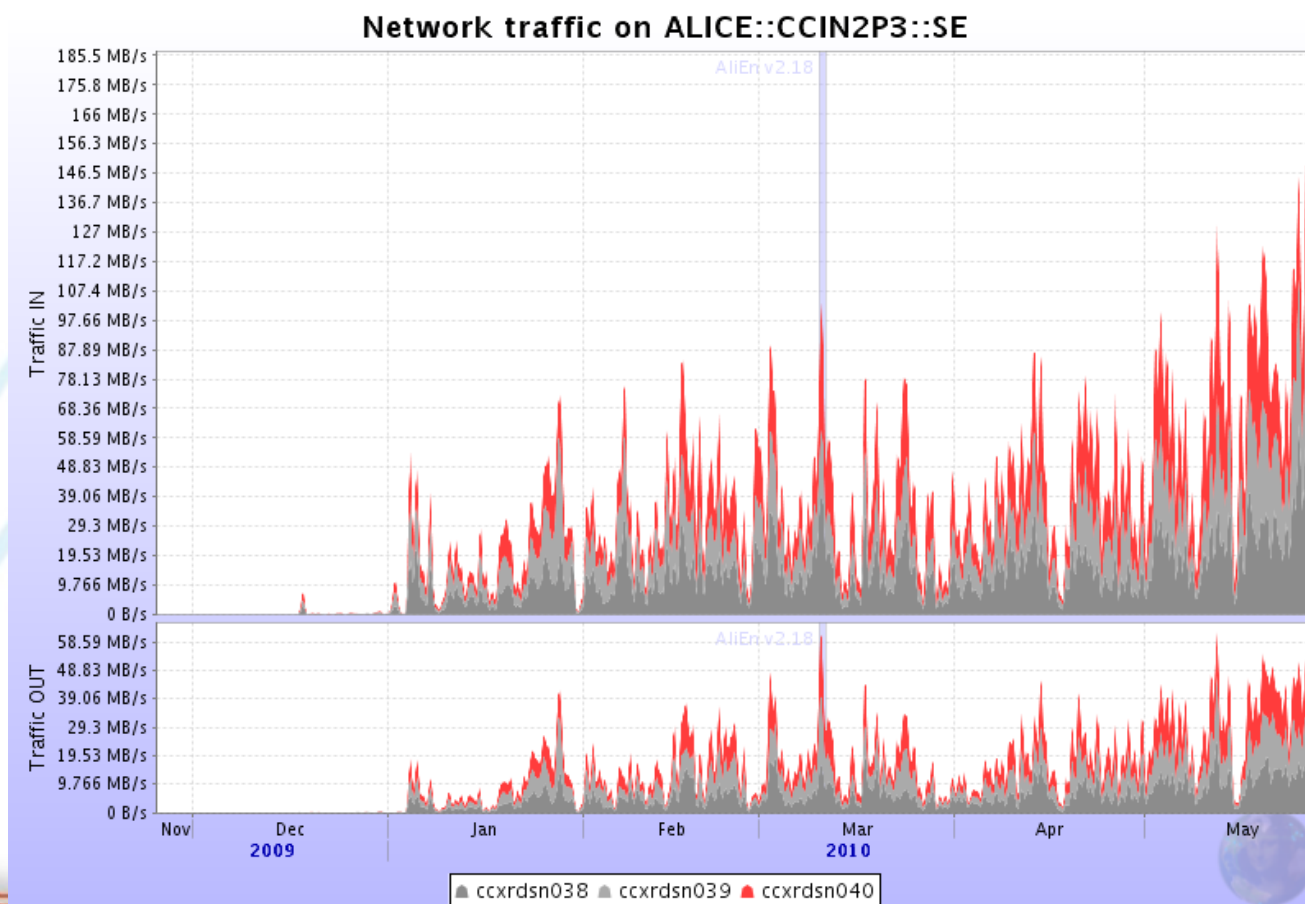


Xrootd SE (disk) status



- 38.5TB used (96TB total)

Total incoming and outgoing traffic





Milestones



- Staging HPSS → xrootd
 - ◆ Use of TReqs
 - ◆ Setup implemented, need testing
- Migration towards CREAM-CE-only
 - ◆ Planned but not critical
 - ◆ Waiting for job memory issues to be under control
- What to do with ALICE auth. library on Solaris?
 - ◆ Involve sysadmins to help continue on Solaris? Move to linux?
- Vobox backup possible with new AliEn
 - ◆ Can we proceed now?