

CCIN2P3 & GRIF status report

March 18th 2010

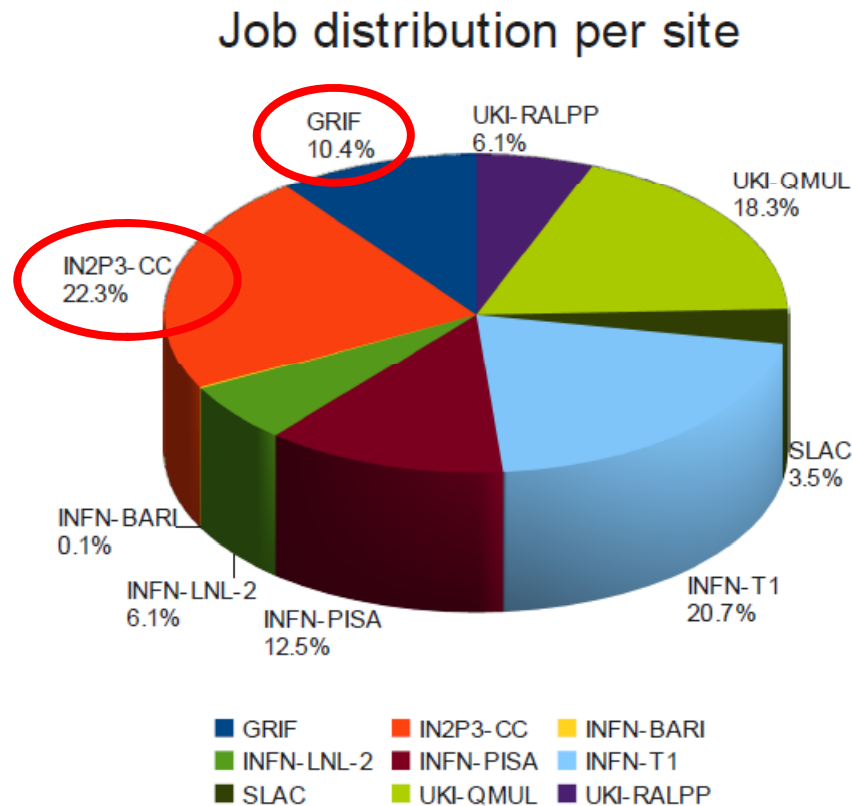
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- Contributions of CCIN2P3 and GRIF to the **February production**
- **CCIN2P3** vs. **GRIF**
- **Toward next production(s)**

Contributions to recent FastSim production

- From Armando's plenary talk on Tuesday morning:



Site Name	Jobs done	Events generated
GRIF	2081	183650000
IN2P3-CC	4457	383930000
INFN-BARI	29	2850000
INFN-LNL-2	1214	120070000
INFN-PISA	2505	183310000
INFN-T1	4143	284660000
SLAC	699	69900000
UKI-QMUL	3672	337745000
UKI-RALPP	1217	94025000
TOTAL	20017	~ 1.7x10⁹

- **CCIN2P3: 22.3%** → First site!
 - **GRIF: 10.4%**
- } 1/3 of the total production

More on the FastSim production

- I worked on the sites setup but not on the production itself
⇒ Experience from Armando and Luca is essential

- In particular:

Site Name	Jobs done	Events generated	Jobs failed	
GRIF	2081	183650000	169	7.5%
IN2P3-CC	4457	383930000	293	6.2%

→ Job failure analysis!?

- Other questions:
 - What defined/limited the # of jobs submitted to a given site?
- Thanks to Michel Jouvin (GRIF)
Vincent Bel & Pierre Girard (CCIN2P3)

CCIN2P3 vs. GRIF

- **CCIN2P3** (<http://cc.in2p3.fr/>): **official computing center for the IN2P3** (~ 20 labs), used by most of the experiments in which IN2P3 is involved.
 - Tier center, simulation, analysis, etc.
 - **Ressources officially requested in 2010 for SuperB**
 - **CPU**: ~27% of BaBar request for 2010
[will know by the end of the month which fraction was used by Feb. production]
 - **AFS group area** of 20 GB + 15 TB **storage on NFS**
 - **Grid ressources**: software area of 8 GB + 500 GB on the SE (dcache)
 - **Big center** in which **SuperB is a 'small' experiment**
 - Hard to get tailored intervention; SuperB needs to adapt to the existing framework (e.g. no yum) rather than the opposite
 - Helped Marco Corvo test his standalone installation script; success at the end
 - **All collaborators working on a project approved by IN2P3 (SuperB TDR) can get an account at CCIN2P3 and use its ressources (batch, etc.)**
 - BaBar is using CCIN2P3 a lot: analysis, simulation, skimming, etc.
 - **Accounts can now be requested by non-IN2P3 SuperB members**
 - **Bruno is running at CCIN2P3**
 - Center could be used for future FullSim production either

CCIN2P3 vs. GRIF

- **GRIF: Grille Régionale de l'Ile de France** (<http://www.grif.fr/>)
 - « GRIF is a joint initiative from 5 CNRS/IN2P3 laboratories and CEA/IRFU (ex: CEA/DAPNIA), all located in Paris region, in order to build a major grid resource. »
 - **Smaller center** located in a LAL-Orsay building
 - Easier access to admins...
 - Center funded by various partners (biology institutes, ATLAS, etc.)
 - **No guaranteed access for IN2P3-supported experiments**
 - **'Parasitic' free access to the resources for the Feb. Production**
 - Biologists bought much more CPUs than what they currently need ☺
 - LHC not at full speed yet
 - **Conditions for next production(s) may be less favourable**
- **Points common to both centers:**
 - **All machines are SL5 64-bits**
 - Impossible so far to compile FastSim locally

Towards next production(s)

- The more sites the better
 - SuperB should maintain access to both CCIN2P3 and GRIF !
- **Money investment** seems to be the right way **to secure GRIF access in the future**
 - I was told the following prices:
 - 1 k€by TB of storage
 - 2 k€by 8-core machine
- **Will need to request CCIN2P3 resources for 2011 in November**
 - Help will be needed to make it **realistic** and **useful** for SuperB
 - More resources could likely be asked **if the project is finally approved**
- **Caveat: I'm a busy-enough physicist and not a computing expert**
 - I can help passing on information between sites and SuperB, make small tests but not much more than that (in particular no real development)
 - BaBar has a dedicated people working at CCIN2P3

