

Becoming a BaBar Grid: requirements

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BABAR

Shopping list

Authentication

Authorisation: BaBar people

Sites: BaBar machines

afs : why and how



Authentication

You need a certificate.

From a reputable authority

UKHEP CNRS or anyone in EU Datagrid are reputable.

Globus is not.



Authorisation

Even with a certificate, you need an account to run a job etc.

VO='Virtual organisation' = experimental collaboration

(For LHC experiments this is done by NIKHEF)

ldap server (somewhere) has list of BaBar users + certificates

Must be easy to maintain. Data entry is home-made

Want unique site. SLAC - RAL - Manchester? Volunteer?

Grid software at sites refers to this.



BaBar sites

Sites identify themselves as having BaBar resources.

Who to? Central BaBar site

Already exists for GridPP (example, hopefully)

Can steal map software - need volunteer site. Bristol?



The afs problem

Job submission from Tier C to Tier A:

Need to send all the tcl files and dumb files read by BetaApp (e.g. PID efficiencies)

Solution 1: tarball tcl. Don't read dumb files. Unrealistic.

Solution 2: workdir in afs. submitted batch job does klog.

Also solves where-to-put-the-output problem

Tier C site running afs server -much easier than it used to be.

Batch job needs to know afs password. Avoided by `gsiklog`



BABAR

Sign up sheet

All participating sites will recognise certificates of UKHEP and CNRS (and...?)

Someone will run a VO ldap server identifying BaBarians

All sites will use it to give accounts (conventional or dynamic)

Someone will run a Monitor page for Babar sites

Sites will identify themselves to it and get green dots.

Sites will add afs cells to their TransArc list (or use openafs)

Sites will install `gsiklog` patches



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