Jan-Mar/2006: Easygrid product development

No Deliverables foreseen in contract.

1. Set a little production farm for Manchester.

A farm with 60 CPUs was set to provide production resources for BaBar Tau group. Easygrid was extended to integrate TauUser job submission. This is a major achievement, because is helping a 4th year PhD student that does not have results until now.

2. Performance test.

There were 23 different tests using several different data access: NFS at 1Gbs, NFS at 100 Mbs, storage element gridftp, mixing grid and local batch programs in nice to use cpu during iowait, etc. There were 1, 3, 6, 12, 56 jobs in parallel for each test. Xrootd was not tested yet because Sabah is busy moving people up and down.

3. Main farm production.

I studied how to use Alessandra worker node/storage element/dCache. I report it was partially working on 7th Feb, and by 15th Feb it stopped working. We have talked several times, and it is not working. I reported again by email 24th Mar, without answer until now.

Status: Waiting Alessandra find the problem.

4. Tags for datasets.

After 15 months, Fergus still refusing to provide tags for datasets. It is revolting, because easygrid prototype could be in use long ago, helping people and allowing them access to idle resources, instead to wait wasting time in the overcrowded SLAC. The last email was:

Date: Mon, 6 Feb 2006 10:29:39 +0000 (GMT)
From: jamwer <jamwer@hep.man.ac.uk>
To: "Wilson, FF (Fergus)" <F.F.Wilson@rl.ac.uk>
Cc: Roger Barlow <roger.barlow@manchester.ac.uk>, "Brew, CAJ (Chris)"
    <C.A.J.Brew@rl.ac.uk>, "Adye, TJ (Tim)" <T.J.Adye@rl.ac.uk>, "Castelli, G (Giuliano)" <G.Castelli@rl.ac.uk>, jamwer
    <James.Werner@manchester.ac.uk>, Roger John Barlow
    <barlow@slac.stanford.edu>
Subject: RE: BaBar Grid Meeting Provisional Agenda

Dear all,
Since January 2004 I am discussing, arguing, fighting, beging to have these tags and the initialisation script done to develop easygrid and put it in production for all collaboration. I sent emails to John Gordon, Tony Doyle, everybody from gridpp, RAL what else and nothing. We had a meeting last June where you tried tags with schemes and files that did not work instead use datasets. Now you want to discuss again?
This is just a software configuration. No costs. If you want to change, no problem at all. If you want I deliver my part of the contract, and users are allowed to use grid, make what I asked for. Meanwhile students and researchers are waiting at SLAC and hundreds of computers are doing nothing. Pathetic!
James

I deeply regret the lack of professionalism of some colleagues at BaBar collaboration, and Roger lack of balls to deal with them. They hold passwords and information to avoid anyone use the resources and do HEP.

5. Gridification algorithm.

I submitted a paper to 15th Conference Paris. Papers must be approved by BaBar collaboration. To overcome this difficulty, the paper did not mention the problem (BaBar/HEP, etc) I was solving or any result (the discriminate), only the algorithm itself. The paper was refused because was very strange (looks like no need for it and no use!!). When I submitted papers to the collaboration, my paper was published and my name was removed. I do not know what to do.


This is a functional gridification benchmark. Genetic programming was used to find evolutionary discriminate functions to distinguish between background and real neutral pions with 82% accuracy. It opens several possibilities, such as pion/kaons discrimination, and could be used in the future to find Higgs bosons in LHC experiment.

7. EasyGrid product development:

I am studying several ways to structure the final product. There will be changes from the original specification to achieve safest conditions of submission and recovery. There will be 2 levels of commands: one level submission (MC, analysis, root, applications, etc), and a second level management (easygrid).

8. Standard model course.

I am attending the course, and I believe genetic programming could be used to generating functional to map SM lagrangeans in observables. I will use this, running in grid, to fit observable from Tau decaying in N neutral pions.

9. IoP 2006

I wrote a wonderful poster for IoP 2006.