LHC Computing Grid Project
Grid Deployment Board

Notes on the GDB meeting 9-12-2002
Alberto Masoni, 10-12- 2002

COUNTRY	MEMBER	Part.	DEPUTY	Part.
Austria	Dietmar Kuhn	yes		
Canada	Randy Sobie	no	Robert McPherson	
Czech Republic	Milos Lokajicek	yes		
Denmark	John Renner Hansen	no	Anders Waananen	
Finland	Klaus Lindberg	no		
France	Denis Linglin	yes	Thomas. Kachelhoffer	yes
Germany	Klaus-Peter Mickel	yes	Holger Marten	
Hungary	Andras Benczur	no		
India	D.D.Bhawalkar	yes	P.S Dhekne	yes
Italy	Federico Ruggieri	Yes	Luciano Gaido	
Japan	Hiroshi Sakamoto	yes	Tatsuo Kawamoto	
Netherlands	Kors Bos	yes	Arjen Van Rijn	
Poland	Michal Turala	yes	Jan Krolikowski	
Portugal	Gaspar Barreira	no	J. Gomes	yes
Russia	Slava Ilyin	yes		
Spain	Manuel Delfino	no		
Sweden	Anders Ynnerman	yes		
Switzerland	Christoph Grab	yes	Allan Clark, Marie-Christine Sawley	yes
Taiwan	Simon Lin	yes		
United Kingdom	John Gordon	yes	Steve Lloyd	
United States	Vicky White	Yes	Lothar Bauerdick	
CERN	Wolfgang von Rüden	yes		
ALICE	Yves Schutz	Yes	Alberto Masoni	
	Federico Carminati	yes		
ATLAS	Gilbert Poulard	Yes	Laura Perini	
	Norman McCubbin	yes		
CMS	Tony Wildish	Yes		
	David Stickland	yes		
LHCb	Eric van Herwijnen	Yes		
	John Harvey	no		
Project Leader	Les Robertson	Yes		
GDB Chair	Mirco Mazzucato	Yes		
GDB Secretary	Alberto Masoni	yes		
Grid Deployment Mgr	Ian Bird	yes		
Fabric Manager	Bernd Panzer	yes		
Appl. Manager	Torre Wenaus	yes	Oxana Smirnova	yes
Chief Tech. Officer	David Foster	yes		
SC2 Chair	Matthias Kasemann	Yes		
Work Group Tech. Support	David Kelsey, Tony Cass	yes		

- **The minutes of the previous meeting are approved**

- **Presentation of resources table**
  It was remarked, as decided at the GDB meeting on 4/11/02, that the data should indicate LHC capacity together with the fraction of the resources committed to LCG, with the aim of having this fraction tending to 1 by 2004. In the discussion it was clarified that even if most centres indicated an LCG fraction equal to 1 already at the beginning of 2003, this expresses effective resources available for LHC and potential resources available for LCG (according to the effective LCG-1 availability for the experiment productions). **The number indicated as "centre value" indicates therefore the resources available for the LHC experiment Data Challenges. The fraction of these resources, labelled as LCG, will increase with time according to the LGG-1 schedule and to its effective capability for effective usage by the experiments in their Data Challenges productions.**
  It was decided also to publish the table on the web, accessible to GDB members, but not in the public area. The resources available for LHC computing in each country was considered to be the most appropriate way to present the table data outside and will be made available on the GDB web site. Switzerland and Sweden declared formally their participation to LCG. The list of available resources will be available soon and inserted in the table.

- **User Support Working Group (I. Bird)**
  It was agreed that Klaus-Peter Mickel and Ian Bird would draft a proposal, and a working group would be formed in February to address the issues.

- **Reports from working groups.**

  - **WG-1 report, D. Foster**
    See slides attached to the agenda.
    Issues:
    Dedicated resources:
    Different opinions on this subject. It was clarified that the use of dedicated resources is intended just for the pilot test system. The aim is to try to use, by the end of 2003, as much as possible of all the available resources, which may not all be dedicated to LCG-1.
    Data access:
    GDB agreed to make a recommendation on this subject. Dave Foster will act as convener of a focus group; people to contact are the people from EDG WP2 and WP5 and experiment representatives focusing on what is needed and what is achievable within the LCG-1 schedule.
    Portability:
    The need for portability to at least two platforms was raised by Federico Carminati. Dave Foster agreed that portability was desirable but no specific activity is planned at present.

- **WG-2 V. White.**
  Slides available on the agenda

  - Issues:
    The position of the experiments with respect to the role of RCs in the Grid : experiment will move to LCG-1 the moment it will provide a better environment than the present one. RCs should enter as sites within a unique Grid.
    The situation can be different according to the different RC situation. For example there are centres where there are not just LHC resources but a grid with a quite a substantial amount of resources which can be available to LCG.
    The idea is anyway to integrate sites, which can be either dedicated to LHC computing or just part of a grid which serves other environments besides LHC.
    CMS expressed its position by e-mail (attached below)

  - Site integration:
    Discussion on the WG2 proposal, there are political implications on delaying the participation of many sites.
    After discussion it appeared that for most sites the schedule is good. A Tier-1 can act as a reference for a wider Tier-2 community.

- **WG-3 D. Kelsey**
  Slides available on the agenda
  A document, which should answer the most important questions, is expected to be ready by next February

- **WG-4 F. Ruggieri**
  Slides available on the agenda

- **Next years meetings:**

  - Proposed dates:
    6/2 CERN 11-18,
    10/3 Taiwan 9.30
  - Action: check to match this meeting with HICB meeting (Mirco)
    10/4 CERN 11-18,
    8/5, CERN 11-18

Mail sent by Dave Stickland on CMS position on LCG-1

There have been some questions about what the experiments are expecting from LCG-1, in particular when do they expect to be using classical production and when the genuine LCG resources?

CMS DC04 has four quite different stages:

1)MC Production (DC04 Pre-Challenge) (July-Dec 03)
Generator+GEANT4 production running more or less independently. We don't need a grid per se, but would use it as soon as it was efficient to do so. We consider it more important to complete this step than to run it on "the grid".

2)Digitization (DC04 Pre-Challenge) (Nov-Dec 03)
Including merging of large pileup samples. May be more sensible to run off of LCG-1, it is a specialized sort of production that typically profits well from a carefully designed local data serving architecture. Not so obvious we can have a generic lcg farm do this efficiently. Again we consider it more important to do this than to do it on a grid.

3)Reconstruction. The T0 phase at CERN (DC04) (~Feb 04)
For the T0 phase we do not need a grid (Probably do not even want a grid?), this is a classic production farm scenario. It may even be a specialized production farm scenario with head-nodes etc looking more like an online farm. We will however need to publish the produced data to the grid

4)Analysis. The Offsite phase of DC04 (~Feb-Mar 04)
We *must* do all this on LCG-1. (That is the whole point of the challenge). Running pseudo analysis jobs, moving data between T0-1-2. Fairly complex data access: select from large data sample, run more reconstruction, output AOD/Tuple, publish to grid. Semi-chaotic. Many less sophisticated users. (Automatic) Job scheduling close to data location ....

David

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