

Introduction

Junji Tojo

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Introduction

- Group production has been running steadily with great support by GDP/DDM/ADCoS. Here are some updates since the last Software & Computing WS.
- More groups have been joined to the group production, encouraged by Physics Coordination.
 - TRT
 - SCT (under preparation)
 - MCP (Muon Combined Performance)
 - SM electroweak subgroup
 - SUSY
 - Exotics
 - Top
 - Higgs (under preparation)

Groups and Contact Persons (1/2)

Group	Sub-group	Contact person
ID	Pixel	(Stephen Gibson)
	SCT	Peter Rosendahl
	TRT	Thomas Koffas
LAr	-	Sven Menke
Tile	-	(Serguei Yanush)
Trigger	L1Calo	John Morris
Data Preparation	-	Jamie Boyd, Beate Heinemann
Egamma	-	Andrea Bocci
Jet/MET	-	Michiru Kaneda, Toshi Sumida
Flavor-tagging	-	Johanna Fleckner, Agnieszka Leyko
MCP	-	Magda Anna Chelstowska

New groups are indicated by RED.

Groups and Contact Persons (2/2)

Group	Sub-group	Contact person
SM	MinBias	(Will Bell)
	WZ	Matthias Scott
	Direct photon	Leonardo Carminati
	EW	Haijun Yang
SUSY	-	David Cote, Katarina Pajchel
	R-Parity Violating/Long-lived	Nick Barlow, Christian Ohm, Jackson Paul
Top	-	Ulrich Husemann, Douglas Smith, Minoru Hirose
Exotics	-	Michiru Kaneda
Higgs	-	Malachi Schram (Andrea Di Simone)

New groups are indicated by RED.

Task Types

- A typical type

(D)ESD/(D)AOD \rightarrow NTUP

- Another typical type, which more physics groups are expected to use (e.g. Top WG).

AOD \rightarrow DAOD

DAOD \rightarrow DAOD merging \rightarrow NTUP

- Some special cases (e.g. Data Preparation)

RAW \rightarrow ESD, AOD, TAG with special setup

- Others types are expected in the future

ESD \rightarrow ESD, re-running (a part of) reconstruction

Recent Experience/Feedback (1/4)

- A lack of (quick) validation before starting a bulk production.
 - Output size too big (TRT, ESD → NTUP).
 - Corrected in another pcache and re-started the production
 - Memory issue (MCP, (D)ESD → NTUP)
 - A fraction of jobs were failing possibly due to memory issue.
 - Those can be avoided in a more careful validation cycle (running a few tasks before a bulk production).
 - Monitoring tool for the group production will help detecting such issues (see later slides).

Recent Experience/Feedback (2/4)

- Before creating pcache, it would be helpful if we can detect any issues by running a few validation tasks using nightlies.
 - Some experiences already. Recently discussed with Andreu, David R. and Pavel.
 - Links to nightlies will be available under UNVALID pass for validations (tasks are assigned to CERN).
- A GoodRunList (GRL) in production
 - Depending on the request from groups, they would like to use GRL in the production step (e.g. Data Preparation)
 - This is an item to be developed.

Recent Experience/Feedback (3/4)

- DaTRI
 - Automatic request for replication to destination sites, with the requester (Mikhail)
 - There is a suggestion to change the requester to the task owner, so that any issues (e.g. disk full) can be detected by the task owner.
 - To be discussed.

Recent Experience/Feedback (4/4)

- Monitoring tools for group production tasks & datasets
 - A suggestion from Stephane : to detect any issues for the group production tasks & datasets
 - The monitoring is done now exactly the same way as other production tasks. The (almost) only difference is to use group disks for the storage and DaTRI for the replication.
 - We are using
 - (1) PANDA monitor (select group production tasks)
 - (2) DaTRI page for group production datasets
 - (3) Group space report page
 - (4) Production dashboard
 - A few suggestions if we move to the development
 - (1) – (3) are useful anyway.
 - Make (4) group production task/dataset aware.
 - A monitoring page combining (1) – (4), which can detect/show tasks/jobs, datasets, replication and group disks for each group.