

Progress on Data Handling system

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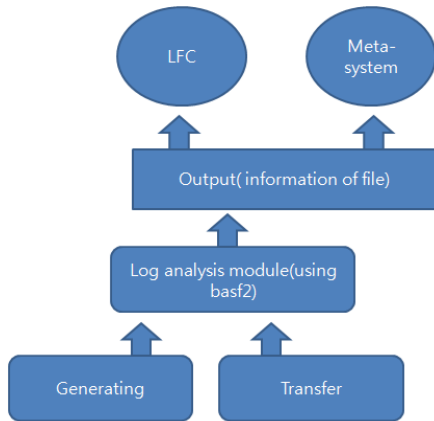
DH meeting, 2011.10.05

Overview

- 1 Registration system
- 2 Meta-system on Grid
- 3 Summary and Next step

1 Workflow of registration tool

- Goal: We make the automatic registration tools.
- We develop this tool with basf.
- We will move the development from basf2 to basf.
- We will offer the information to LFC and Meta-system.



Workflow of registration

- Development

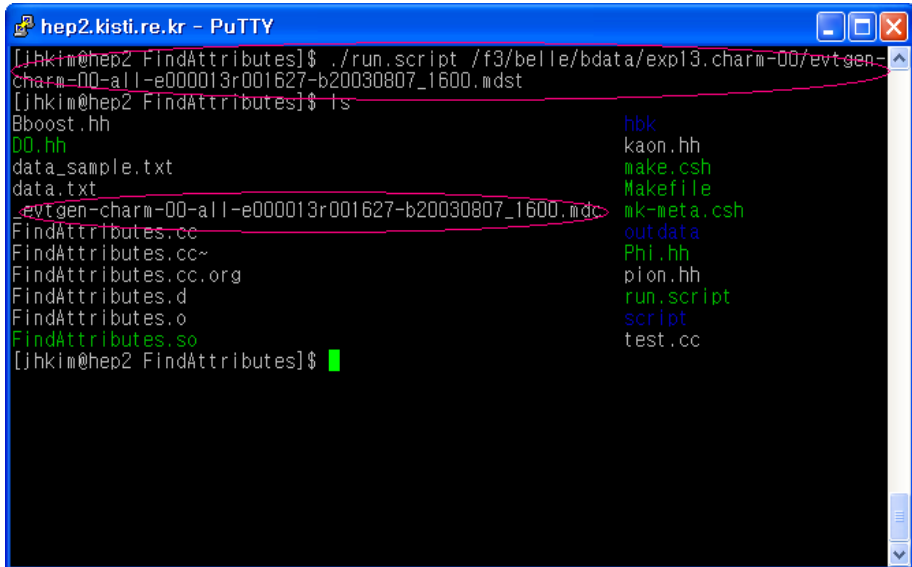
- starting

- * We have around 5TBytes grand reprocessing data of Belle experiment.

- * We installed the belle library(b20090127_0910).

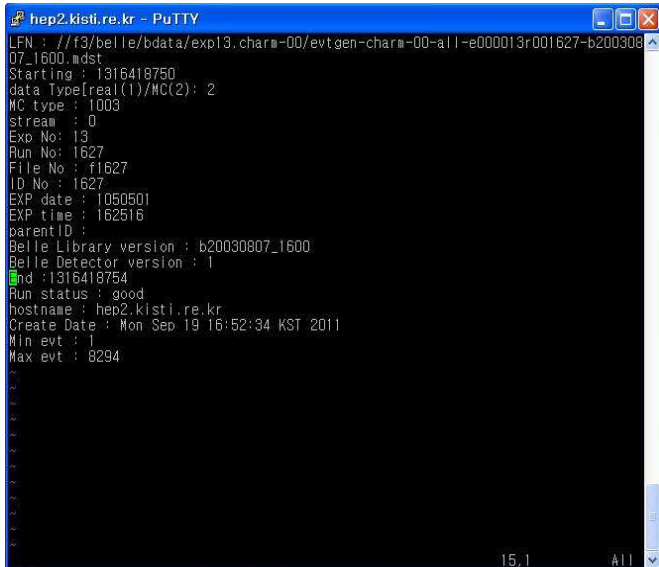
- Developing
- * We Developed the registration tool as a module.
- * To get the information
 - > read the panther tables in the module.
- * A registering is working a writing to meta-system per a file.
 - > made a information file per a file
- * We support to use the multi processing in Belle Lib
 - > We adopt **BasfShareMen** which is share memory library of Belle Lib
- * Technically, We don't support to write the multi files in a row.
- * If you want to write the multi files into meta-system
 - >Make the script!

- Result



```
hep2.kisti.re.kr - PuTTY
[jhkim@hep2 FindAttributes]$ ./run.script /f3/belle/bdata/exp13.charm-00/evtgen-
charm-00-all-e000013r001627-b20030807_1600.mdst
[jhkim@hep2 FindAttributes]$ ls
Bboost.hh                                hbk
DO.hh                                    kaon.hh
data_sample.txt                          make.csh
data.txt                                  Makefile
evtgen-charm-00-all-e000013r001627-b20030807_1600.mdst mk-meta.csh
FindAttributes.cc                         outdata
FindAttributes.cc~                       Phi.hh
FindAttributes.cc.org                    pion.hh
FindAttributes.d                          run.script
FindAttributes.o                          script
FindAttributes.so                         test.cc
[jhkim@hep2 FindAttributes]$
```

- Result



```
hep2.kisti.re.kr - PuTTY
LFN : //f3/belle/bdata/exp13.charm-00/evtgen-charm-00-all-e000013r001627-b200308
07_1600.mdst
Starting : 1316418750
data Type[real(1)/MC(2): 2
MC type : 1003
stream : 0
Exp No: 13
Run No: 1627
File No : f1627
ID No : 1627
EXP date : 1050501
EXP time : 162516
parentID :
Belle Library version : b20030807_1600
Belle Detector version : 1
nd : 1316418754
Run status : good
hostname : hep2.kisti.re.kr
Create Date : Mon Sep 19 16:52:34 KST 2011
Min evt : 1
Max evt : 8294

15.1 All
```

- Meta-system on Grid

- * We need the information of DN and role for Belle/Belle II VO.
-> to make the accessing permission and so on.
- * We will be contact with Iwai san or the other involved person.
- * We will make the accessing architecture on Grid.

Next Step and Summary

- We are developing the extraction and registration toolkit with basf.
- AMGA team will synchronize the information in writing part.(in end of Oct.)
- We fix the trivial problem such as fill the null into meta-system for empty information in panther tables.
- We will be looking for missing or additional information.