

The Current Status of the Metadata System

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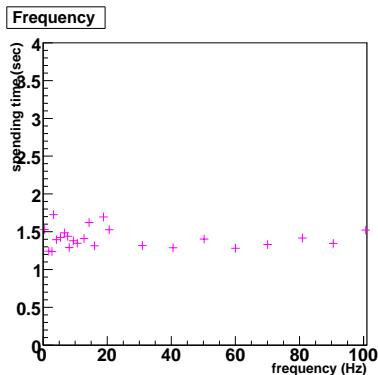
DH group Meeting, 2011.01.06

Overview

- 1 Frequency test
- 2 Replication
- 3 User created data-set

Frequency test

- Reading process : 5 query per each frequency
- Generating for writing
 - 1 experiments = exp99, on_resonance, stream 0 → only for test
 - 2 Generating time : (1 ~100) Hz
 - ▶ We perform independent read-write.
- We have the linearity from 0 to 100 Hz.
→spending time is 1.2 ~ 2.0 (sec)



Replication

- Tom and Marko make the slave node at Univ. of Ljubljana SLOVENIA.
- We have a problem for the replication of Belle II meta-data catalog.
- That is why we don't allow the replication for Belle II.
- We allow the replication and solve this problem.

User created data-set

- We need to make a table for user created data-set in DB.
ex) Belle2user (O) /Belle2/user/\$account\$ (X)
- Our schema will be changed with adding the user created dataset.
→ We will save the snapshot in DB (1 entry = 100 byte)
 - ▶ Estimation for meta data size

We have three kind of data type.

By TDR

1) Number of total files

part 1 :reprocessing

1. raw data : 100 M files

part 2 : end-user accessing data

2. data(real): 4.3 M files

3. MC : 12.5 M files

User created data-set

- 2) Number of total enties.
 1. Raw data entries = 100 M
 - * we supposed that end-user make 3 times duplicated dataset for both MC and real.
 - * we supposed that a dataset is 1000 entries.
 2. real entries = $4.3 \text{ M} * 3 = 12.9 \text{ M}$
 3. MC entries = $12.5\text{M} * 3 = 37.5 \text{ M}$

For reprocessing, the manager will make 100 K dataset.
For user analysis, an end-user will make $12.9\text{K} + 37.5 \text{ K} = 50.4 \text{ K}$ dataset.
Total end-user will be around 300 person.

 2. real entries = 3.87 M
 3. MC entries = 11.25 M

Total entries = 15.12 M
Total file size = 1.512 T byte

Next step

- We test AMGA system on grid for applying CA and permission as soon as possible.
- The master node will be moved at KEK.: wating the comment from Hara san.