

August 23, 2011  
Belle II Computing Meeting, KEK, Japan

# Data Handling Group Summary

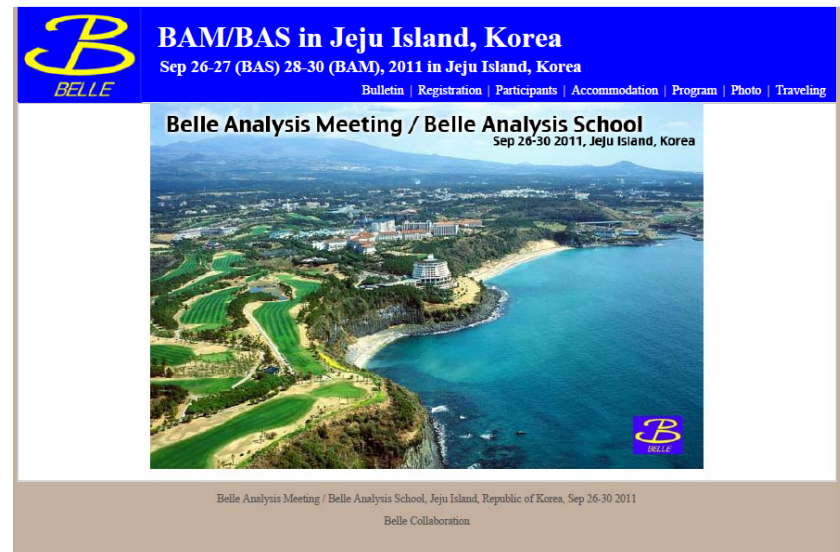
Kihyeon Cho  
High Energy Physics Team, KISTI

# Contents

- Meetings
- New directory
- Scheme
- Junghyun's code vs. Milosz's code
- AMGA Manager
- Plan

# Meetings

- Belle II Data Handling Meeting
  - August 7, 2011
- Korea Belle Analysis Meeting
  - August 24, 2011
  - KISTI, Daejeon Korea
- BAM/BAS Meeting
  - <http://hep.korea.ac.kr/bam2011>
  - Sep. 26-30, 2011
  - Lotte Hotel,
  - Jeju Island, Korea
  - Please do the registration



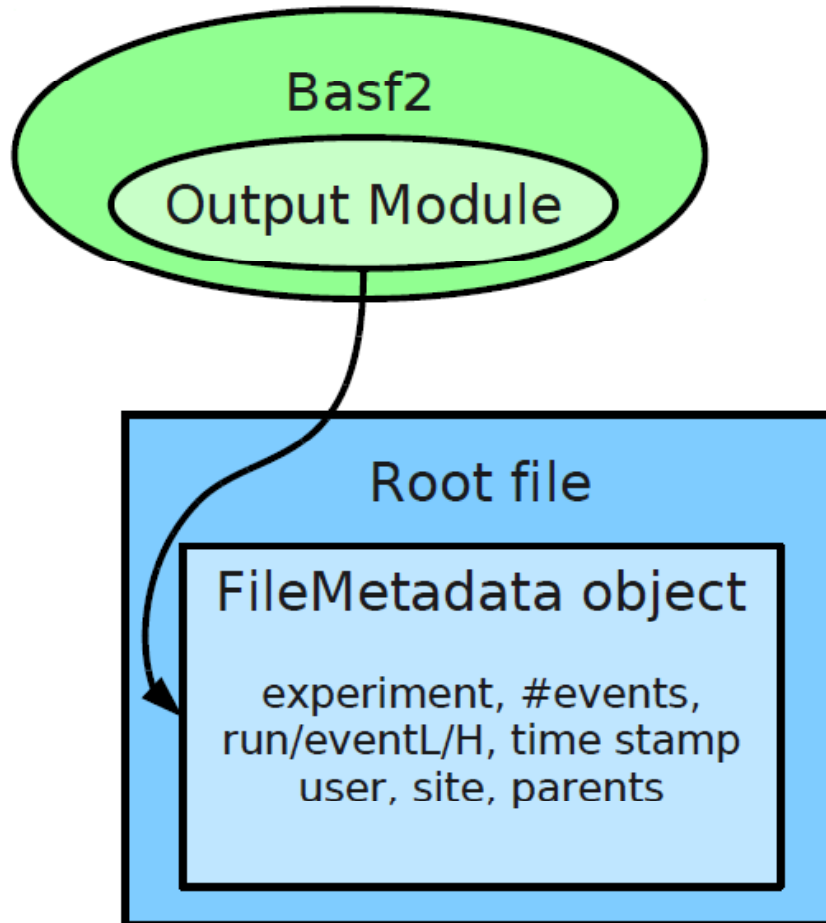
The banner features a blue header with the Belle logo (a stylized 'B' with 'BELLE' underneath) on the left. To the right of the logo, the text reads "BAM/BAS in Jeju Island, Korea" in white, followed by "Sep 26-27 (BAS) 28-30 (BAM), 2011 in Jeju Island, Korea" in a smaller font. Below this, a navigation menu includes "Bulletin | Registration | Participants | Accommodation | Program | Photo | Traveling". The main body of the banner is a photograph of a coastal resort area with a golf course, buildings, and a beach. Overlaid on the top of the photo is the text "Belle Analysis Meeting / Belle Analysis School" and "Sep 26-30 2011, Jeju Island, Korea". A small Belle logo is in the bottom right corner of the photo. At the very bottom of the banner, there is a small text line: "Belle Analysis Meeting / Belle Analysis School, Jeju Island, Republic of Korea, Sep 26-30 2011" and "Belle Collaboration" below it.

# Belle II software directory

- Root/svn/trunk/software
- Added new directory /data\_handling/
- The librarian is Junghyun Kim.
  
- This is for AMGA manager and data handling system based on basf2.
  
- Thank Thomas.

# Proposed Scheme (1)

---



- basf2 output module adds FileMetadata object to output root file
- FileMetadata object contains all information that is known at the file creation time

# Junghyun's code vs. Milosz's

Junghyun's code		Milosz's code
Both extraction and registration of metadata (Automatically)	Contents	Registration of metadata only (Manually)
C++	Code Language	Python
basf2	Embedment	gbasf2
data_handling	Software directory	gbasf2

It is suggested to call Junghyun's code for the extraction in metadata in Milosz's code => Co-work needed

# Junghyun's work

- Step1. Using basf frame
  - Make Module => done
  - Extract attribute (Shell script) => done
  - Trouble shoot: Parallel Processing => solved
  - Put into DB => will be done by AMGA team
- Step2. Using basf2
  - Waiting for basf2 frame work and sample Belle II data

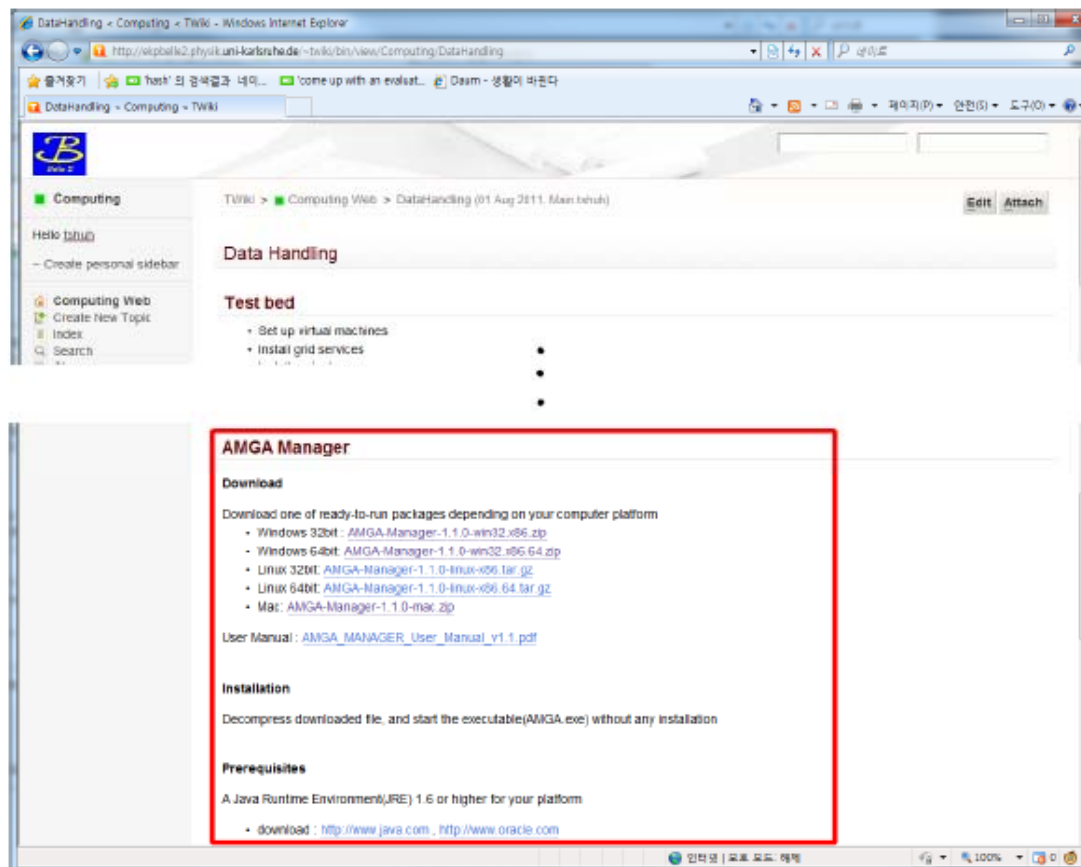
# Milosz's work

- Instead of DIRAC, using LCG/LFC directly
  - Non-DIRAC mode
  - Data registration tool kit works.
  - For every file:
    - upload file to SE
    - register LFN in LFC
    - register metadata from metadata file
  - To do
    - Reorganizing the code:
      - need to move one function to AmgaClient

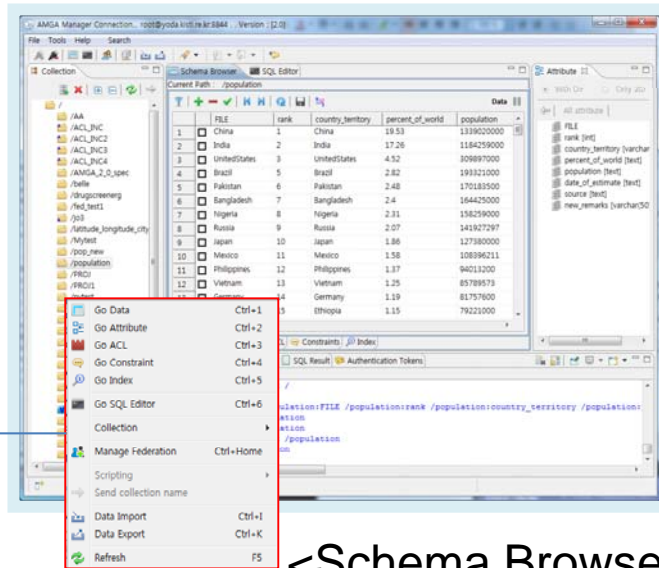


# Upload AMGA Manager

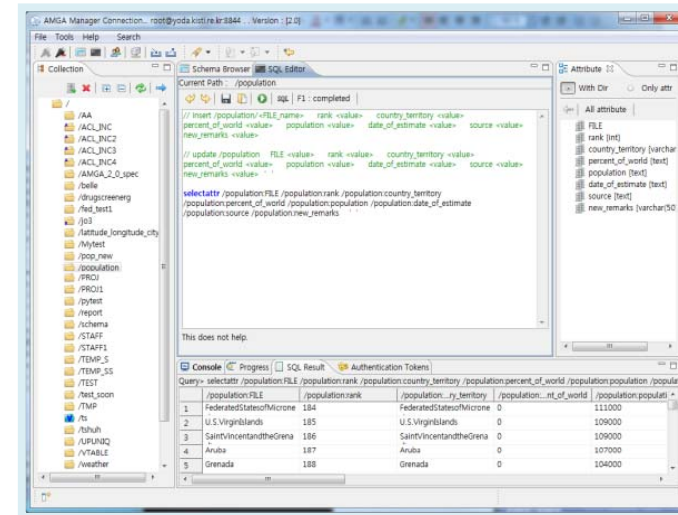
Site URL : <http://ekpbelle2.physik.uni-karlsruhe.de/~twiki/bin/view/Computing/DataHandling>



# Main Screenshots

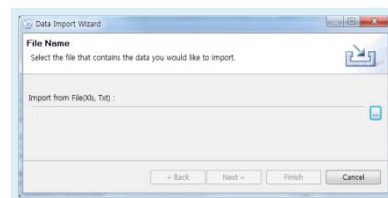


<Schema Browser>

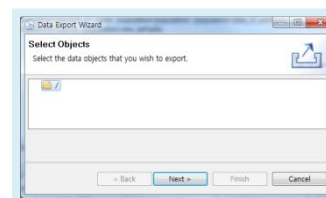


<SQL Editor>

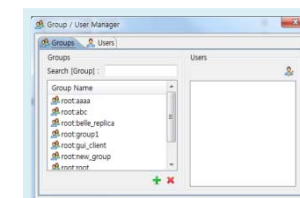
Collection Menu



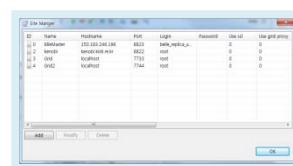
<Data Import Wizard>



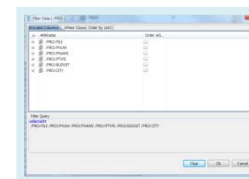
<Data Export Wizard>



<Group/User Manager>



<Site Manager>



<Filter>



# Plan

- Abstract for CHEP2012 (Sep. 2011)
- Belle II computing workshop, KEK, Nov. 2011
- Milosz' python code will call Junghyun's module in basf/basf2.

Thank you.