Status of SICB

Joel Closier
Eric van Herwijnen
Agnieszka Jacholkowska

Release Procedure

◆ **SICB release procedure revised to:**

- improve reliability of the delivered data
- decrease no of versions
- make access to public planning
- solve the communication problems between

librarian/MC production team and software developers

Release Procedure

◆ **Before updating the software**

  ■ **communicate foreseen software changes to:**

  F. Ranjard, A. Jacholkowska, E. van Herwijnen,

  Sub-detector Contact person or Generator group Coordinator

◆ **SICB release meeting : decisions about**

  ■ **content of updates (set priorities)**

  automatic communication procedure will be established

  ■ **time range for commits, last commit DATE**

  ■ **test version DATE ® test data**

  ■ **time range for tests (Central Quality Check performed)**

  ■ **public release DATE ® public data**

◆ **SICB release WEB page**

  ■ **created now and updated after each release meeting**

Version splitting and Quality Check

◆ **Version splitting**

■ **decouple software and data base : vsoft, vdbase**

modify : old mcqry $LHCBHOME/mcdbase/mcqry_source

wait for new Oracle Book Keeping (New Model : vdbase, vsimul, vrecons)

◆ **Quality Check**

■ **basic Quality Check exists**

® **MC and DST histograms**

■ **detailed Quality Check**

inquiry to be done in sub-detector groups by E. van Herwijnen

specialized software provided by sub-detector groups

® **reference histogram set will be stored centrally**

Forthcoming Updates

- **Next Version updates**
  - extended magnetic field map   (A.Jacholkowska)
  - VTX software for field treatment   (T.Ruf)
  - multi PASS structure (pileup studies)   (A.Tsaregorotsev)
  - RICH developments (physics and setup)   (G.Wilkinson)
  - muons (bug fixes and data base)   (P.Colrain)
  - AXSEL lib in the standard stream   (G.Corti)
  - Pileup trigger modification   (N.Zaitsev)
  - new THC1 trigger bank   (O.Callot)
  - CALO raw hit development   (I.Korolko)

Status of SICB production

◆ **Produced samples**

MC samples : PCSF, RAL, Lyon

DST samples : RSPLUS, LINUX (CERN)

■ **trigger optimization**

mbias, mbias + diffraction, b inclusive, $B_d \circledR m(e)X$

and reference channels $B_d \circledR p^+p^-$, $B_d \circledR J/y K^o_S$, ...

® **800k MC events produced**

■ **different types of DSTs for mbias sample**

● **DST1 standard, single event**
● **DST2 piluped events following to L = 2 x 10^{32}**
● **DST3 piluped events following to L = 5 x 10^{32}**

® **90 % DST1 produced, 40k DST2, 40k DST3**

DST production on NT not yet possible : bugs in reconstruction

■ **PHYSICs : contribution of 200k b inclusive events - RAL**

Summary

- "Rigorous" release procedure with clear
planning established via regular decision meetings
and public WEB page

- Test version and final Public version scheme should provide more reliable data - **independently of the version !**

- Central Quality Check will be performed in collaboration
with sub-detector experts

- Trigger optimization data produced with version 220 - 223
  - MC 800k events
  - DSTn 750k events

- Oracle book keeping project progressed : **important** for CERN production and outside labs

- Production for Physics aimed to start end March 2000