



Offline operations

Offline meeting

Nov 30 2000

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- **Outline**
 - Processing of the commissioning run data
 - Migration to ROOT 2.26
 - coming releases
 - Moving to “all-static” environment
 - Offline User support in Run II: Offline Aces
- **Processing of the Commissioning Run data**
 - During the commissioning run worked out the procedure of patching the frozen releases, now have patched frozen versions
 - **Notations:**
 - 3.11.0.e: offline with SVX tracking broken
 - 3.11.0.f: offline with SVX tracking mostly repaired
 - List of good runs: about 1000 files, something like 1TByte of data
 - All these data available on FCDFSGI2 via DH system
 - Total amount of data recorded - about 3TBytes (according to DFC)
 - 25% of the good runs processed with 3.11.0.e
 - Realized that should have dropped some of L3 objects



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- reprocessed 25% with 3.11.0.f, SVX on
- The plan:
 - Process ALL the data with 3.11.0.f and **SVX tracking OFF** and make the data available to the collaboration
 - Wait for SVX group to sign off on the calibration constants
 - reprocess ALL the data (1TByte) with 3.11.0.g and **SVX tracking ON and** make the data available
- **Migration to ROOT 2.26:**
 - need to move, because
 - Many bugs fixed
 - New features available
 - 2.24 is no longer supported
 - The plan:
 - Several packages which need modifications, identified - Root*, Consumer
 - Put the changes before Friday (use CPP conditionals)
 - Start testing development with ROOT 2.26 right after this
 - If everything goes well, make ROOT 2.26 the default some time next week



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- **Schedule for the next frozen releases:**
 - Cut a release for the offline version used for processing the commissioning run data - code name - 3.11.1
 - Cut a frozen release right after migrating to ROOT 2.26 to provide stable basis for the users
- **Moving to “all-static” environment**
 - Currently all the *Objects libs are linked as shared with all the well-known consequences
 - Recently found a way to link all the CDF libraries as static
 - Tested with SimulationObjects for several weeks, no showstoppers found
 - - will proceed in this direction trying to make this transition adiabatically - on the package-by-package basis



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responsibilities:

CDF offline aces

- provide CDF offline user support, answer "how can I do this" questions, help users to solve simple problems (code doesn't compile, doesn't link etc), point user to the manuals ...
- maintain and update the entry-level offline documentation
- dispatch more serious problems (crashes etc) to the proper experts after some preliminary study is done (debug the problem and in 0-th approximation identify the offending place)
- run validation jobs



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2. shift rotations:

- 1 week , 3 off
- 2 people on shift, 4 shifts a year => need 26 aces next year, half of them for the first 6 months of 2001

3. tools

- CDFSOFTHelp@fnal.gov mailing list
- Jitterbug-type bug tracking/recording system

4. training program - what offline aces have to be able to do

- setup CDF run II environment (test/super etc)
- link and run major CDF execs - production, simulation
- use other tools:
 - AC++Dump, Edm_ObjectLister, event display... etc
- understand the release structure
- know how to work with CVS - trace CVS history of changes etc



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- know the names of the librarians - we need to identify the librarians
 - code browser
 - use debuggers - totalview and GDB...
- **Start training late January 2001, so the first group of aces needs to be identified by early January**