AliRoot status

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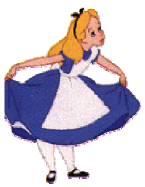
Alice monthly off–line meeting

May 17, 2002

CERN

V3–07–Rev–01

- v3–07–Release tagged during the off–line week. A lot of work done during the week.
- v3–07–Rev–01 tagged on 15/03/02
- Uses Root v3–02–07, but works without any problem with v3–03–05
- A lot of corrections
- Most of the tests are OK
- One can produce SDigits and Digits in separate files for HI(2001) events



STEER

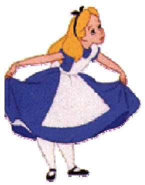
- New classes for event summary data, track summary data, and vertex summary data.
- Macros to create Sdigits and Digits for several detectors. Correspondent trees can be written to separate files
- Changes to provide possibility for output in separate files

EVGEN

- New version of AliGevSim code
- New class for flow afterburner
- New methods and options
- Corrected violations of coding rules

ITS

- Possibility to save reconstructed point and clusters in different files
- Possibility to save in parallel fast and slow points
- New classes and code for SDigits, Digits and event merging (based on TTask)
- Improved noise simulation
- A lot of corrections: memory leaks, initializations, class versions, etc.
- Clean–up of obsolete macros (to be finished)



TPC

- New version of track parametrization
- Changes to restore the backward compatibility with 2001 data
- Several corrections and additional protections

TRD

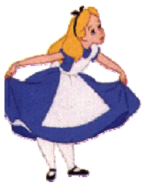
- New parameter class and regions of interest for merging
- Updated macros
- Corrected violations of coding conventions
- Several changes in the digitization

TOF

- Contour cuts introduced
- Updated QA for TOF hits and SDigits
- Updated digitization
- First prototype of TOF reconstruction
- New PID and analysis macros

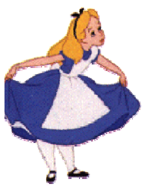
PHOS

- Branches filled instead of trees, writing of trees replaced by AutoSave
- Corrections suggested by "Effective C++"
- Possibility to post any version of Clusterizer, TrackSegmentMaker and PID
- New version of PID



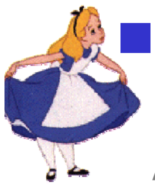
FMD & START

- FMD
  - Direct conversion of FMD hits to digits
- START
  - New digitization and reconstruction code



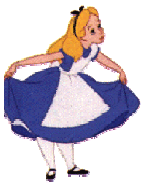
Virtual MC

- Virtual MC code is now in the Root CVS repository (version v3–03–05)
- The Geant3 and related code exists in a standalone version, where the subdirectories are GEANT321, MINICERN, Tgeant3. It is adapted to the virtual MC.
- The Geant4 code is changed to use the virtual MC
- After some tests the changes will be committed to AliRoot



Systems & Compilers

- RedHat 7.2.1 certified at CERN (13/03)
  http://linux.web.cern.ch/linux/redhat7/
- Intel CC and Fortran90 compilers on RH7.2
  http://developer.intel.com/software/products/compilers/
  - Free (license for non–commercial use)
  - Better performance (~20% with respect to gcc)
  - Profile guided optimization of code with shared libraries
  - AliRoot target in preparation
- GCC 3.1 released (15/05)
  - Needs tests (Fortran optimization?)



Alice off–line week: proposal

- Monday (10/06): Simulation & Digitization
- Tuesday (11/06): I/O & new file structure
- Wednesday (12/06): Reconstruction & Analysis
- Thursday (13/06): GRID & Distributed computing
- Friday (14/06): Wrap–up session