

AMS Experiment Parallel Event Processing using ROOT/OPENMP scheme

Tuesday, March 24, 2009 8:00 AM (20 minutes)

The ROOT based event model for the AMS experiment is presented. By adding few pragmas to the main ROOT code the parallel processing of the ROOT chains on the local multi-core machines became possible. The scheme does not require any merging of the user defined output information (like histograms, etc). Also no any pre-installation procedure is needed. The scalability of the scheme is shown on the example of real physics analysis application (~20k histograms). The comparison with the ProofLite performance for the same application is also done.

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