

Software Developments Tools and Techniques, Core Performance

Wednesday, March 25, 2009 11:00 AM (30 minutes)

When experiments get close to data taking, the pace of software development becomes frantic, and experiments librarians and software developers rely on performance monitoring and optimization to keep core resources usage (memory and CPU) under control. Performance monitoring and optimization share many tools, but they are distinct processes with very different workflows. In this talk we will outline the challenges currently facing LHC experiments and review some of the tools and techniques available, based on the experience of several HENP experiments.

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Paolo began his career as a physicist studying CP violation in the NA31 and NA48 experiments at CERN. In 1998 he moved to Berkeley to work on CDF software. In 2000 he joined ATLAS where he helped develop Athena, ATLAS software framework based on Gaudi, and StoreGate, ATLAS transient data store. He is currently working on ATLAS performance monitoring and optimization.

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