Contribution ID: **31** Type: **Poster presentation**

TaskRouter: A newly desinged online data processing framework

Tuesday, June 7, 2016 3:00 PM (1h 30m)

TaskRouter is a runtime software and framework for distributed computing. It can be used to facilitate the development of online processing system for High Energy Physics experiments. The framework takes the responsibility of data transmission. Users can determine how data being processed and routed on each node by implementing a single callback interface. One or more backup slaves can be configured for critical nodes in TaskRouter system, and single point failures such as sudden node power off can automatically recover without data loss. TaskRouter is flexible, easy to use and high available. This paper presents the core design of the framework and some performance test results with a dummy online processing procedure.

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Session Classification: Poster session 1

Track Classification: Processing Farms