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/opt/indico/archive/2016/C8/40222322483

Contribution ID : 67

Type : **Contributed Oral**

Computing challenges of the CMS experiment

Monday, 27 February 2017 17:45 (0:20)

Content

The success of the LHC experiments is due to the magnificent performance of the detector systems and the excellent operating computing systems. The CMS offline software and computing system is successfully fulfilling the LHC Run 2 requirements. For the increased data rate, together with high pileup interactions, improvements of the usage of the current computing facilities and new technologies became necessary. Especially for the challenge of the future HL-LHC a more flexible and sophisticated computing model is needed. In this presentation, I will discuss the current computing system used in the LHC Run 2 and future computing facilities for the HL-LHC Runs using flexible computing technologies like commercial and academic computing clouds. The cloud resources are highly virtualized and can be deployed for a variety of computing tasks providing the capacities for the increasing needs of large scale scientific computing.

Summary

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Session Classification : Computing

Track Classification : Electronics, Trigger and Data Acquisition