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CMS Experiences with Computing Software and Analysis Challenges

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In preparation for the start of the experiment, CMS has conducted computing, software, and analysis challenges to demonstrate the functionality, scalability, and useability of the computing and software components. These challenges are designed to validate the CMS distributed computing model by demonstrating the functionality of many components simultaneously. In the challenges CMS has had participation from approximately 40 computing centers and has demonstrated event processing, data transfers, and analysis processing across the globally distributed computing environment. In this presentation, CMS will describe the types of tests performed including the scale achieved from each CMS component and externally provided component, the functionality demonstrated in the test, and the functionality left to validate before the experiment begins. The successes and lessons learned will be summarized and the directions for the future will be outlined.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

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