

Software integration and development tools in the CMS experiment

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The offline software suite of the Compact Muon Solenoid (CMS) experiment must support the production and analysis activities across the distributed computing environment developed by the LHC experiments. This system relies on over 100 external software packages and includes the developments of hundreds of active developers. The applications of this software require consistent and rapid deployment of code releases, a stable code development platform, and effective tools to enable code development as well as production work across the facilities utilized by the experiment. We describe the model used for CMS offline release management and software development, and discuss how the continued growth in development has been facilitated. Recent work has resulted in significant improvements in these areas. We report on the concept and challenges, status, recent improvements and future plans of the CMS offline software development and release integration environment.

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