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Software development, release integration and distribution tools for the CMS experiment

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The offline software suite of the CMS experiment must support the production and analysis activities across a distributed computing environment. This system relies on over 100 external software packages and includes the developments of more than 250 active developers. This system requires consistent and rapid deployment of code releases, a stable code development platform, and efficient tools to enable code development and production work across the facilities utilized by the experiment. Recent developments have resulted in significant improvements in these areas. We report the concept, status, recent improvements and future plans for these aspects of the CMS offline software environment.

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