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Production Management Software for the CMS Data Challenge

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One of the goals of CMS Data Challenge in March-April 2004 (DC04) was to run reconstruction for sustained period at 25 Hz input rate with distribution of the produced data to CMS T1 centers for further analysis.

The reconstruction was run at the T0 using CMS production software, of which the main components are RefDB (CMS Monte Carlo 'Reference Database' with Web interface) and McRunjob (a framework for creation and submission of large numbers of Monte Carlo jobs).

This paper presents an overview of CMS production cycle, describing production tools, covering data processing, bookkeeping and publishing issues, in the context of their use during the T0 reconstruction part of DC04.

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