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Evolution of BOSS, a tool for job submission and tracking

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BOSS (Batch Object Submission System) has been developed to provide logging and bookkeeping and real-time monitoring of jobs submitted to a local farm or a grid system. The information is persistently stored in a relational database for further processing. By means of user-supplied filters, BOSS extracts the specific job information to be logged from the standard streams of the job itself and stores it in the database in a structured form that allows easy and efficient access. BOSS has been used since 2002 for CMS Monte Carlo productions and is being re-engeneered to satisfy the needs of user analysis in highly distributed environment. The new architecture has the concept of composite jobs and of job clusters (Tasks) and benefits from a factorization of the monitoring system and the job archive.

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