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Understanding performance: optimisation activities in WLCG

Thursday 27 April 2017 12:05 (25 minutes)

The LHC Run4 phase, also known as HL-LHC, is scheduled to start in mid 2026 and it will impose formidable challenges to the capability of processing and storing data according to the planned data acquisition rates. A tenfold increase in recorded event rates for ATLAS and CMS and a threefold increase in event pile-up will require an amount of computational power and storage far in excess of what can be estimated to be available taking into account flat budgets and current technological trends. WLCG has started to work on closing this gap by initiating a series of activities which aim at understanding and reducing inefficiencies at both the software level and the computing workflows level. In addition work started to exploit computing resources previously unavailable. This contribution describes the achievements and the ongoing work of the team dedicated to these activities, which are conducted in close collaboration with the LHC experiments.

Length of talk (minutes)

20

Scheduling constraints / preferences

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