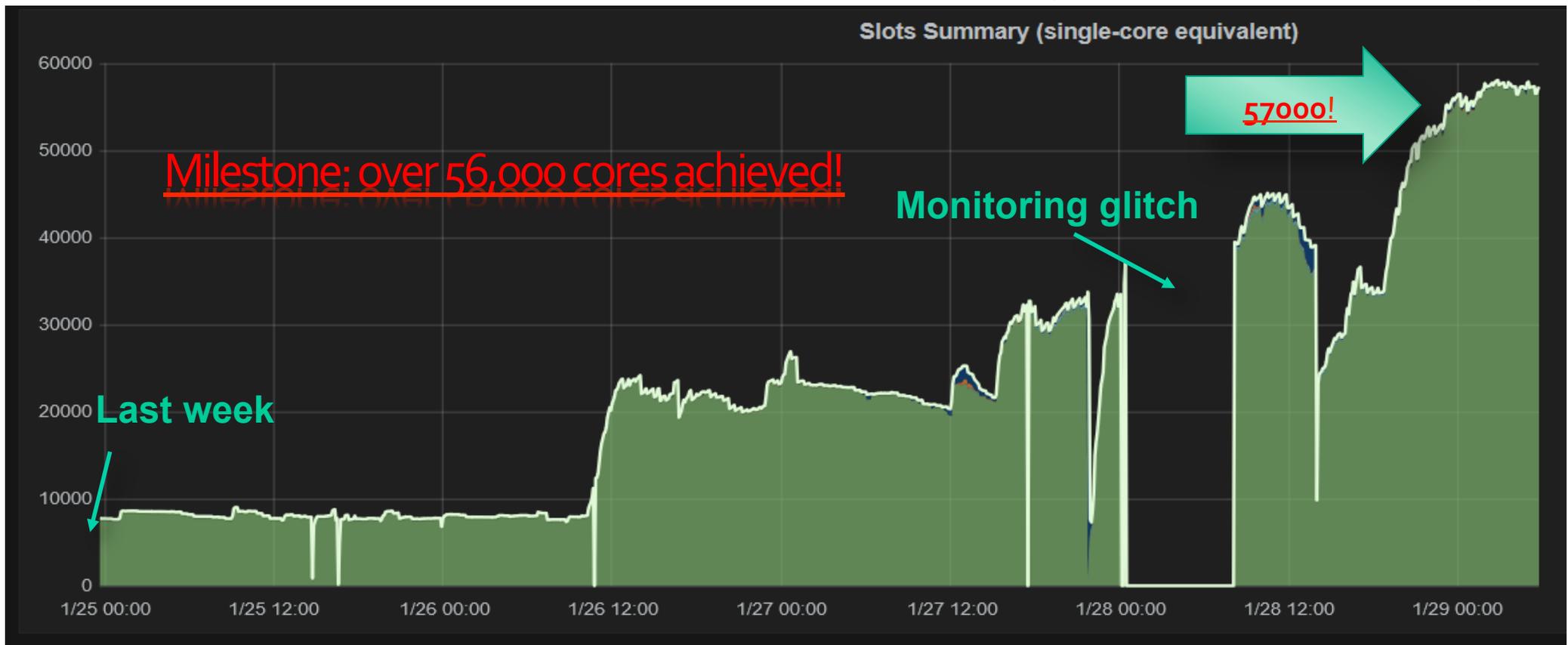# AWS Project: CMS Use Case

- CMS applied to a AWS R&D matching grant within the FNAL HEPCloud project
- The goals of the CMS use case is to demonstrate the capability of executing in production any of the CMS centrally organized workflows
  - Project duration: June 2015- March 2016
- Target scale is 56k simultaneously running cores for 1 month
  - ability to ingest data through Xrootd at a sufficient rate to maintain a high CPU efficiency
  - ability to export data produced
- AWS credit to be used in a large-scale workflow that would be visible to the CMS collaboration
  - demonstrate the value of dynamically provisioned external computing resources for GEN-SIM, DIGI-RECO and data RECO
- CMS workload and data management infrastructure adapted to run on S3 and AWS

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Scaling-up to Full Scale

- Strong interest from CMS to demonstrate the capability of producing MC data for Winter conferences
  - Multi-step single workflow simulating and reconstructing data, randomly mixed with minimum bias at <PU>=35
    - ~500 minimum bias events read per crossing (In-time and out-of-time)

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Scaling-up to Full Scale

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