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BigData challenges and processing at present and future High Energy Physics and Nuclear Physics experiments

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Content

In this contribution I discuss the various aspects of the computing resource needs experiments in High Energy and Nuclear Physics, in particular at the Large Hadron Collider, have encountered so far and how this will evolve in the future when moving from LHC to HL-LHC ten years from now, when the already Exa-scale levels of data we are processing could increase by a further order of magnitude. The distributed computing environment has been a great success and the inclusion of new super-computing facilities, cloud computing and volunteering computing for the future a big challenge, which we are successfully mastering with a considerable contribution from many super-computing centres around the world, academic and commercial cloud providers and in particular with support of RF Ministry and Education and Science mega-grant program for BigData Technologies Laboratory hosted at National Research Center Kurchatov Institute.

Summary

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