

JUNO distributed computing

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The Jiangmen Underground Neutrino Observatory (JUNO) is a multipurpose neutrino experiment and the determination of the neutrino mass hierarchy is its primary physics goal. JUNO is going to take data in 2024 with 2PB raw data each year and use distributed computing infrastructure for simulation, reconstruction and analysis tasks. The JUNO distributed computing system has been built up based on DIRAC since 2018. The official Monte Carlo production has started to run in the system and PBs of massive MC data has been shared among JUNO data centers through this system since last year. In this paper, an overview of the JUNO distributed computing system will be presented, including workload management system, data management system and calibration data access system. Also the progress of adapting the system to the token-based AAI and WebDAV TPC will be reported. The paper will also describe the preparations for the coming data-taking, and how we will arrange JUNO data processing activities in this platform for data-taking.

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