

CloudPSS: A High-Performance Power System Simulator Based on Cloud Computing

With the increasing computations in power system simulations, high-performance and cost-effective power system simulator is highly required. A cloud-computing based power system simulator, namely CloudPSS, is designed by the Research Center of Cloud Simulation and Intelligent Decision-making (CSAID) of Tsinghua Sichuan Energy Internet Research Institute. This seminar discusses the modeling technique, simulation algorithm, parallel accelerating strategies, and platform architecture of CloudPSS. The most recent techniques, benchmarks and performance of CloudPSS are also presented.