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# Parallel improvement in SDN

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**Abstract:** The software defined networking (SDN) architecture to a network by separating the control plane and data plane are designed. The current network architectures in addressing network trends such as mobility, server virtualization and cloud computing, as well as with the rapidly changing market requirements, the problem encountered. Intelligence through programmable logic controller directly to the main focus has been transferred and infrastructure, applications have been separate. The extensive use of industry SDN network, leading to the creation and development of large test bed to evaluate systems with high fidelity that SDN is combined with them. In this study, testing ground, so generalized that can simulate and emulate SDN-based open-flow support, shown how to conduct controller SDN ordinary, to address the problems of efficiency potential Caused by a centralized controller in simulating a parallel discontinuous event; and exploring ways to improve the model's scalability, including an asynchronous synchronization algorithm for passive controllers and a two-level architecture for active controllers.

**Keywords :** keywords: Parallelization, system, controller, virtual machine, software defined networking

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