

A Study on Connectivity Evaluation Among Peer Groups in Pure P2P Networks

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Abstract— Recently P2P (peer-to-peer) network garners attention as a technology for developing a peer group by use of connection of peers which function as autonomously distributed and cooperative units virtualized from computer resources. In this paper, we focus on pure P2P networks which form peer groups by connecting peers without the need for intermediaries. We execute performance evaluation by using computer simulation and propose a method to measure peer groups' connectivity utilizing mean number of connected peer groups without using peers' arrival and departure rates on peer groups.

Keyword— P2P, Pure model, Cluster model, Performance evaluation, Peer groups' connectivity



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