Abstract: A Resource Scheduling Mechanism for Power Reduction in Extended Virtual Machine System

Yunfa Li, Qili Zhou, Jian Wan, Rong Ouyang, Jiling Zhang, Xingdong You
School of Computer Science and Technology, Hangzhou Dianzi University, 310018
Hangzhou, China
yunfali@mail.hust.edu.cn

Abstract

With the growth of system resources, it has become very difficult problem that how to schedule system resources for tasks and reduce power consumption in extended virtual machine system. In order to resolve this problem, we propose a resource scheduling mechanism. In the resource scheduling mechanism, we first propose a resource scheduling model for power reduction. Then, we present an algorithm to resolve the optimal solution of the model. In order to justify the feasibility and availability of the resource scheduling mechanism, a series of experiments have been done. The results show that it is feasible to schedule system resources and reduce power consumption in extended virtual machine system.

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