Abstract

The quest for developing computer architectures in terms of accuracy, efficiency and cost is unending to tackle a very large-scale system, that have a performance problem, using the parallel processing. The mature technology of the mobile agents is gaining more momentum to be adopted with the parallel processing over a grid computing in contrast to the traditional parallel applications, that base on either a dedicated hardware or software. In this paper, the mobile agents technology was proposed as a new approach to achieve a grid computing-based parallel processing for Windows 7 password recovery problem by using the brute-force procedure and realizing how the mobile agents technology can be used to execute complicated applications from the High performance computation community. In this work a weak migration in intra-platform mobile agent was used. The experimental results demonstrate the computational power of the proposed system.


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**Index Terms**

Computer Science  Security

**Keywords**

HPC, Mobile agent, Parallel Processing, password recovery problem.