

RESEARCH STUDY OF DISTRIBUTED COMPUTING WITH EMERGING PARADIGM FOR GRID COMPUTING, UTILITIES AND CLOUD COMPUTING

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ABSTRACT

A distributed system is a group of cooperating computers. In the past decades, the use of distributed systems has increased popularly in high performance computing. Such systems have several advantages over a single processor system, like as improved performance, faster in speed and increased fault tolerance. Nowadays, it is practical to design computer systems with enormous processing capacities by interconnecting a number of computers over a network. Term 'Distributed Computing' has gained a lot of importance, as they are used to elaborate new paradigms, for the management of information and computing resources. Distributed computing is the type of computing, that implement geographically and administratively separated resources. In distributed computing, individual users can access computers and data transparently, without having to consider location, operating system, account administration, computing resources and other details. In distributed computing, the details of computing are abstracted, and the resources are virtualized. In this paper, we presented this concept, its characteristics and also its architecture.

KEYWORDS: Distributed Computing, Cloud Computing, Grid Computing, Distributed Architecture & Network Models