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Coordination In Grid Environments

A Scalable, Distributed, and Decentralized Grid Coordination Infrastructure

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Coordination In Grid Environments: A Scalable, Distributed, and Decentralized Grid Coordination Infrastructure

While Grid computing is rapidly emerging as the dominant paradigm for distributed problem solving for a wide range of software domains, the heterogeneity, dynamism, and uncertainty of Grid environments bring about significant application coordination difficulties.The developed architecture model and the Comet infrastructure are accustomed to support coordination and computation in Grid environments. This model employs completely decentralized architecture and provides a global virtual shared-space abstraction that can be associatively accessed by all peers in the system. In this research, we style and developComet decentralized coordination infrastructure to show the conceptual architecture model. Further, this access is in addition to the physical location of the tuples or identifiers of the sponsor. This book investigates a shared-space structured decentralized architecture model for addressing scalable and robustcoordination for Grid applications. Two prototype systems have already been implemented and evaluated.