

IMPROVING PERFORMANCE OF QOS IN A DISTRIBUTED ENVIRONMENT USING CACHED SENSORNET TRANSFORMATION

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ABSTRACT-Distributed system consists of components that coordinate their actions only by passing messages. Improve the Quality of Service by using CST transformation along with deployment architecture to motivate the benefits of resource sharing. To improve the QoS dimensions like availability, latency, security as they apply to distributed systems. The framework supports formal modeling of the problem and provides a set of tailorable algorithms for improving a system's deployment. Redeployment of the software system may be necessary to improve the system's QoS properties The framework has been evaluated for precision and execution-time complexity on a large number of simulated distributed system scenarios, as well as in the context of two third-party families of distributed applications.

Key words: QoS, Cached Sensor net Transformation, Distributed System, and Redeployment