Modeling Distributed Systems: Architecture and Process*

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ABSTRACT

With the rapid prevalence of distributed applications, more attentions have to be focused on modeling distributed system. This paper investigates the characteristics of constructing a distributed system, then gives a series of design considerations of distributed software architecture including component interaction, security, failure handling and QoS, and presents the suggestive modeling process which extends the regular software process. Case study shows our suggestions on modeling are valuable for constructing distributed systems.

Keywords: Modeling, Distributed System, Software Process