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## RELIABILITY ANALYSIS OF COMPUTER LAB CONNECTING TO A SERVER

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## Abstract

This paper deals with the study of a system having two subsystems in parallel configuration. Each subsystem has m,n clients and both subsystem are connected to server. Failure of i-th and j-th client brings subsystem in degraded mode. The system is repaired when either or both subsystem are failed. The system can also fail due to server failure. All failure rates are constant and assume to follow exponential distribution but repair are assume to follow general distribution and Gumbel-Hougaard copula distribution. The system is analyzed by supplementary variable technique.

**Key Words**: Database server, Complex System, M. T. T. F., Reliability, Availability, Cost Analysis, Supplementary Variable, Gumbel-Hougaard Family Copula.