RELIABILITY ANALYSIS OF LINUX OPRATING SYSTEM CONNECTED IN A LAN

V. V. SINGH, S. B. SINGH AND C. K. GOEL

Abstract

This paper deals study of linux oprating system connected in a LAN. Here in the system two different topologies namely BUS and STAR are placed at two different places connected two a server through a hub. In both topologies star topologies (subsystem 1) and bus (sub system 2) we have n clients . This system can have two type of failure i.e. partial and complete failure, partial failure is of two types namely minor and major failure. Minor partial failure bring the sub system to degraded state and major partial failure bring sub system to break down state. The system can also completely fail due to server failure hacking and blocking etc. The reliability of the system has been discuss by supplementary variable technique and Laplace transform by evaluating varies measures such as reliability, MTTF, availability profit function has been discussed.