Abstract

Software systems often experience aging related defects which cause unexpected outages and disruption in traffic flow in a computer network affecting its availability. Complete collapse of a system due to aging related defects can be prevented by Software Rejuvenation. However, the process of rejuvenation consumes system resources during rejuvenation time,
and affects the transmission of data through the node to different parts of the network during this time. In this paper, we discuss how communication disruption can be avoided and network availability improved when a node suffers from resource exhaustion. Simulation of the network proves the effectiveness of the method proposed in this paper in minimizing traffic disruption through a network. The paper also compares network availability for different software rejuvenation policies.

Reference

- Robert Hanmer 2010 Software Rejuvenation. Alcatel Lucent 2010

Index Terms

- Computer Science
- Softwares

Key words

- Software aging
- Software Rejuvenation
- PTSRP
- PPSRP
- TPSRP
- Network Availability