

عنوان مقاله:

A New Mechanism for Software Rejuvenation Based on Availability Measurement

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خلاصه مقاله:

Abstract Today, almost everyone in the world is directly or indirectly affected by computer systems. Therefore, there is great need for looking at availability in computer systems. Availability is mandatory requirement for many applications. Since the software availability declines with the execution time, also, software aging is a relevant issue in this field. Software aging is a cumulative process that leads long-running systems to age or fail. Software rejuvenation is used to prevent software aging problems. Software rejuvenation measures include rebooting the system or restarting the software to bring the software to a new stable state or empty the memory. In this paper, we intend to use a combination of time-based and measurement-based rejuvenation. Finally, with a numerical example, we compare the combined rejuvenation method with time-based and measurement-based rejuvenation, the results we achieve show this mechanism ensures software availability. Keywords: Software Rejuvenation, Aging, Availability

کلمات کلیدی:

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