Abstract

The nature and complexity of software have changed significantly in the last few decades. With the easy availability of computing power, deeper and broader applications are made. It has been extremely necessary to produce good quality software with high precession of reliability right in the first place. Olden day’s software errors and bugs were fixed at a later stage in the
software development. Today to produce high quality reliable software and to keep a specific
time schedule is a big challenge. To cope up the challenge many concepts, methodology and
practices of software engineering have been evolved for developing reliable software. Better
methods of controlling the process of software production are underway. One of such methods
to assess the software reliability is using control charts. In this paper we proposed an NHPP
based control mechanism by using order statistics with cumulative quantity between
observations of failure data using mean value function of exponential distribution.

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Index Terms

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Key words

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