International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 3 No. I (2009), pp. 209-222

SOME SOFTWARE RELIABILITY MODELS AND THEIR SELECTION CRITERION

C. K. GOEL, JAI KISHORE TYAGI AND KAVITA SAXENA

Abstract

There is probably no other human made material which is more omni present than software in our modern society. Reliability is probably the most important factor to claim for any engineering discipline, as it quantitatively measures quality, and the quantity can be properly engineered. Nowadays people consider more and more about the completeness and effectiveness of such techniques in order to increase the developer's confidence in software quality. We need software reliability models specifies the form of a random process that describes the behavior of software failures with respect to time. In this paper, we are describing the process of using software reliability models to assess the software. We have review the classification of software reliability models according to software development life cycle phases. We have also proposed the criteria for the selection of Software reliability models.