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**Model Based Performance Prediction In Software Development: A
Survey**

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ABSTRACT

Over the course of the past decade, a significant amount of investigation has been focused on finding ways to include performance analysis into the process of developing software. The traditional approaches to developing software place an emphasis on the accuracy of the product, delaying the introduction of performance concerns until later in the process. This technique does not take into account the reality that performance issues may necessitate significant alterations in design, such as at the level of software architecture, or even worse, at the level of requirement analysis. In order to tackle the problem of early software performance analysis, a number of different methodologies were suggested. Even if some of them have been effectively deployed, the integration of performance analysis into everyday software development is still a way off. In this paper, we present a comprehensive review of recent research in the field of model-based performance prediction at software development time. Our goal in doing so is to evaluate the level of development that has taken place in the field as well as to highlight potential avenues for future research.

Keywords: Performance Analysis, Developing Software