Abstract

Ecommerce is an area where an Autonomic computing system could be very effectively deployed. The growth of ecommerce has created demand for services with financial incentives for service providers. Revenues accrue if the admitted requests are processed within the specified deadline and costs are incurred otherwise. In case of heavy load, it will not be possible to process all requests within the deadlines. It is beneficial to concentrate on those requests with which larger profits are associated. This paper describes an approach wherein a fuzzy controller is used which automatically allocates resources for priority requests in proportion to the number of priority requests. This is an illustration of the self-optimizing characteristic of an autonomic computing system.
An Approach in using Differentiated Services to Maximize Profit in an Autonomic Computing System

- Wei, Y., Lin, C., Voigt, T. and Ren, F., “Fuzzy control for guaranteeing absolute delays in web servers,” Proceedings of the 2nd International Conference on Quality of Service in
Heterogeneous Wired/Wireless Networks, August 2005.

Index Terms

Computer Science
Autonomic Computing

Key words

E-commerce
Autonomic computing
Differentiated
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