Abstract

Web Services are modular applications that are published, advertised, discovered and invoked across a network, i.e., an Intranet or the Internet. It is based on the software services model, in which these may participate as individual or as a component of other services and applications. This research follows a performance testing approach for Web Services under simulated and actual hosted environment. The study compares the performance parameters – response time, throughput for web services, which helps the developer in early development life cycle of web services. Such study helps in tuning the applications before putting it before the world. Our measurements suggest that from modeling perspective web services can be simulated first and tested for various performance metrics, which give results close to the original one.
- Eduard Hasenleithner Thomas Ziegler. Comparison of Simulation and measurement using state of art web traffic models. In proceedings of the Eighth IEEE International Symposium on Computers and Communication (ISCC’03)
- Simon E. Spero. Analysis of HTTP performance problems
- Ng. A. Chen, S. and Greenfield, P. Evaluation of Contemporary Commercial SOAP. In proceedings of the 5th Australian Workshop on Software and System Architectures (AWSA), Melbourne, Australia, 2003, 64-71

**Index Terms**

<table>
<thead>
<tr>
<th>Computer Science</th>
<th>Web Applications</th>
</tr>
</thead>
</table>

**Key words**

<table>
<thead>
<tr>
<th>Web Services Performance</th>
<th>Performance Modeling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throughput</td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td></td>
</tr>
</tbody>
</table>