Abstract

There has been extensive research on design, implementation and analysis of new dedicated protocols like group protocol, feasible protocol, secure protocol etc to cater communication requirement of distributed system. However there is no predefined strategy that can be readily used for protocol selection. Performance is defined as the efficient use of resources while still
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meeting the applications’ requirement, hence this paper provide probabilistic analysis of QoS in protocol selection. Ideal protocol features are listed in this paper. Model is design for selection criteria of protocol and creating customized QoS parameter for ease in probability analysis.

Reference

- Karaata, M.H.; Gouda, M.G." Stabilize Deactivation – Re-activation protocol – for flow
control"Computers, IEEE Transactions on Volume: 56, Issue: 7 Digital Object Identifier:
10.1109/TC.2007.1048 Publication Year: 2007, Page(s): 881 - 888 IEEE Journals
- Lili Qiu, Yin Zhang, Srinivasan Keshav "Understanding performance of many TCP flow
- Calvelli, C.; Varadharajan, V." An analysis of some delegation protocols for distributed
Identifier: 10.1109/CSFW.1992.236784 Publication Year: 1992, Page(s): 92 - 110 IEEE
Conferences
- Enokido, T.; Takizawa, M." Flexible group communication protocol for distributed
International Conference on Digital Object Identifier: 10.1109/AINA.2003.1192845 Publication
Year: 2003, Page(s): 65 – 70
- Higaki, H.; Takizawa, M." Group communication protocol for flexible distributed systems"
Identifier: 10.1109/ICNP.1996.564901 Publication Year: 1996, Page(s): 48 - 55
- Dolcet, E.G.; Fuertes, J.M." Low Cost distributed control system with protocol
ETFA '99. 1999 7th IEEE International Conference Volume: 2 Digital Object Identifier: 10.1109/
ETFA.1999 .813129 Publication Year: 1999, Page(s): 1225 - 1233 vol.2
- Takizawa, M.; Mita, H. "Secure Group communication Protocol for Distributed
Seventeenth Annual International Digital Object Identifier: 10.1109/CMPSAC.1993.404230Publication Year: 1993, Page(s): 159 - 165
- Lee, K." Group communication protocol Architecture for distributed network management
Conference on Digital Object Identifier: 10.1109/ICCCN.1995.540098 Publication Year: 1995,
Page(s): 28 – 31
- Toomey, W." TRUMP- A FAST reliable transport protocol for distributed system"
Networks, 1993. International Conference on Information Engineering '93. 'Communications and
Networks for the Year 2000', Proceedings of IEEE Singapore International Conference on
Volume: 2 Digital Object Identifier: 10.1109/SICON.1993.515658 Publication Year: 1993, Page(s): 601 - 605 vol.2
- Pedone, F." Boosting System Performance with optimistic distributed protocols "
Computer Volume: 34, Issue: 12 Digital Object Identifier: 10.1109/2.970581 Publication Year:
2001, Page(s): 80 – 86
- Aung, M.T." An Efficient Data transfer (EDP) protocol for distributed System " Education
Identifier: 10.1109/ICETC.2009.14 Publication Year: 2009, Page(s): 215 – 219
- Weaver, A.C." XTP: A Communications Protocol for Real-Time Distributed
'93., International Conference on Digital Object Identifier: 10.1109/IECON.1993.339025
Publication Year: 1993, Page(s): 502 - 508 vol.1
- Chatzikokolakis, K.; Palamidessi, C.; Panangaden, P." Probability of Error in
20th IEEE Digital Object Identifier: 10.1109/CSF.2007.27 Publication Year: 2007, Page(s): 341
- 354 IEEE Conferences
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- Safiullah Faizullah and Ivan Marsic,"Pricing QoS in Internetworks"
- Wahid S Dabbous, “High Performance Protocol Architecture”.

Index Terms

Computer Science

Networks

Key words

Transmission Control Protocol

Internet Protocol

Quality of Service