Abstract

Interconnection networks modify fast data communication between components of a digital system. Today, interconnections networks are utilized during a vary of applications like switch and router materials, processor-memory interconnect, I/O interconnects, and on-chip networks, to call a couple of. The design of an interconnection network has three aspects—the topology, the routing rule used, and additionally the flow management mechanism used. Though, earlier work doesn’t significance the impact of far-end congestion or the congestion beginning the high channel latency between the routers. Due to the long inter-router latency, the in-flight packets (and credits) result in inaccurate congestion data and might cause inaccurate adaptive routing selections. We tend to propose a history window based approach to remove the impact of phantom congestion. We’ve a trend to mutually show but using the standard of native queue occupancies and adding together an offset extensively eradicate the impact of transient congestion.

References


17. J. Bell et al., “Boxlib users guide” 2013, Center for Computational Sciences and
Engineering, Lawrence Berkeley National Laboratory.


Index Terms

Computer Science  Wireless

Keywords

Interconnect, topology, Adaptive Routing