

CODING FOR IMPROVED THROUGHPUT PERFORMANCE IN NETWORK SWITCHES

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ABSTRACT

- Network switches and routers need to serve packet writes and reads challenge the most advanced memory technologies
 - scaling the switching rates parallelizing the packet I/Os using multiple memory units
- study of coded network switches, and in particular, how to design them to maximize the throughput advantages over standard uncoded switches
- contributes a variety of algorithmic and analytical tools to improve and evaluate the throughput performance
- placement of packets in the switch memory is the key to both high performance and algorithmic efficiency
- “design placement” is shown to enjoy the best combination of throughput performance and implementation feasibility



EXISTING SYSTEM

- Network switches and routers need to serve packet writes and reads at rates that challenge the most advanced memory technologies
- memory unit scaling the switching rates is commonly done by parallelizing the packet I/Os using multiples



DISADVANTAGE

unit scaling the switching rates is commonly done by parallelizing the packet I/Os using multiples

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PROPOSED SYSTEM

- “design placement” is shown to enjoy the best combination of throughput performance and implementation feasibility
- variety of algorithmic and analytical tools to improve and evaluate the throughput performance

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ADVANTAGES

- Design placements introduced
- Variety of algorithm and analytical tool to improve

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