



Simulation Results for Enhanced vs. Basic Bridging

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Agenda

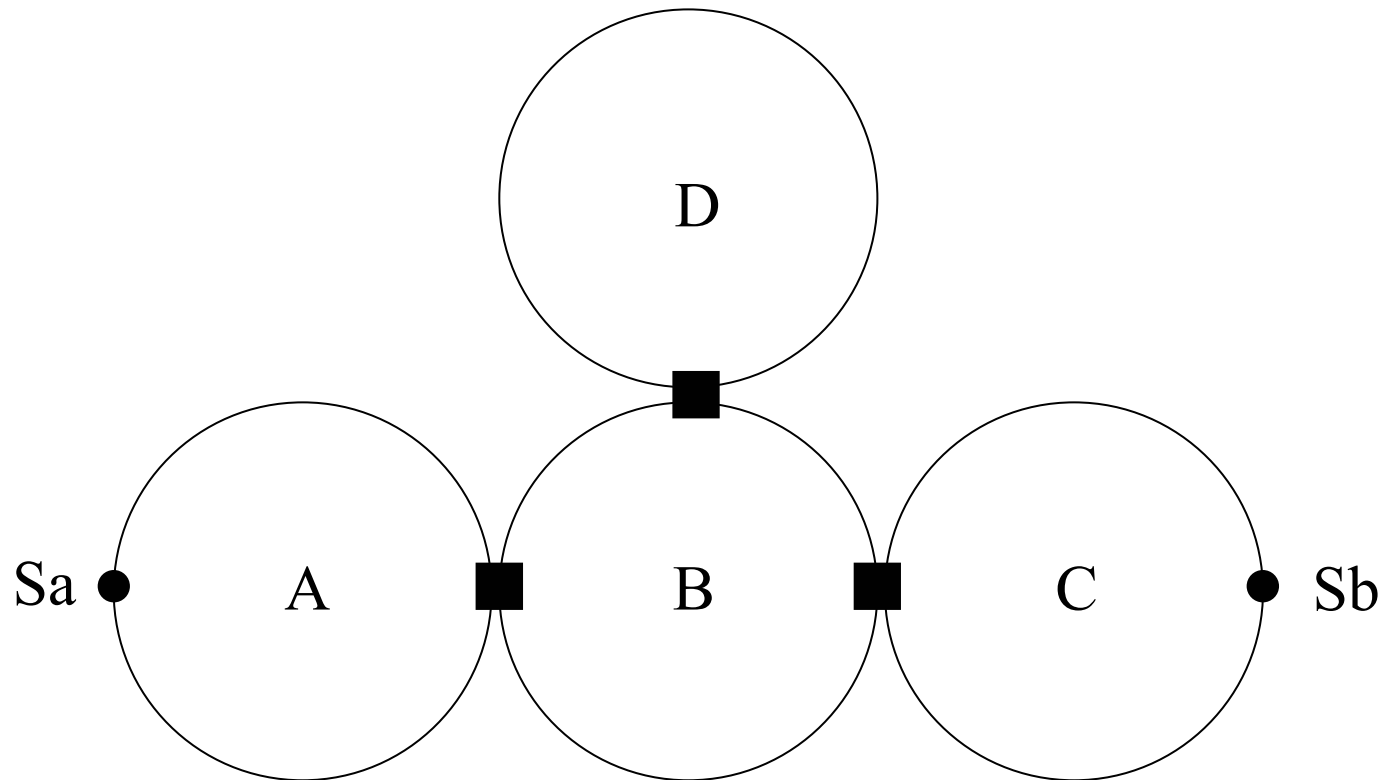
- Network Topology used for Experiment
- Traffic Pattern Applied to Simulator
- Simulation Results
- Conclusion
- Further Information
- Feedback



Simulation Goal

- Measure the total network load
(sum of #frames traversing a network link)
- Compare the results for basic and enhanced bridging

Network Topology



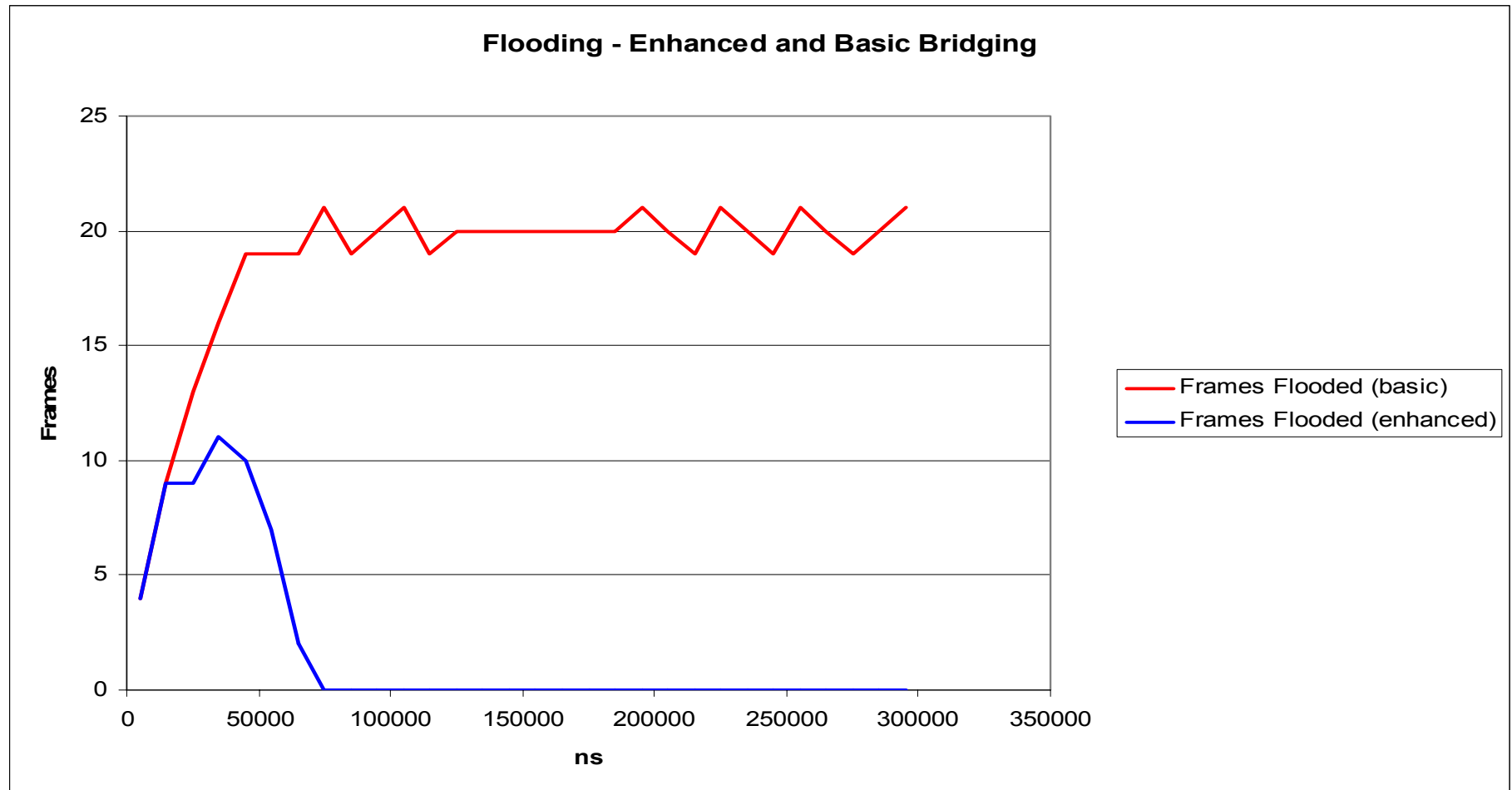
A, B, C, D : 8 node rings
Link length: 500m (4 km rings)



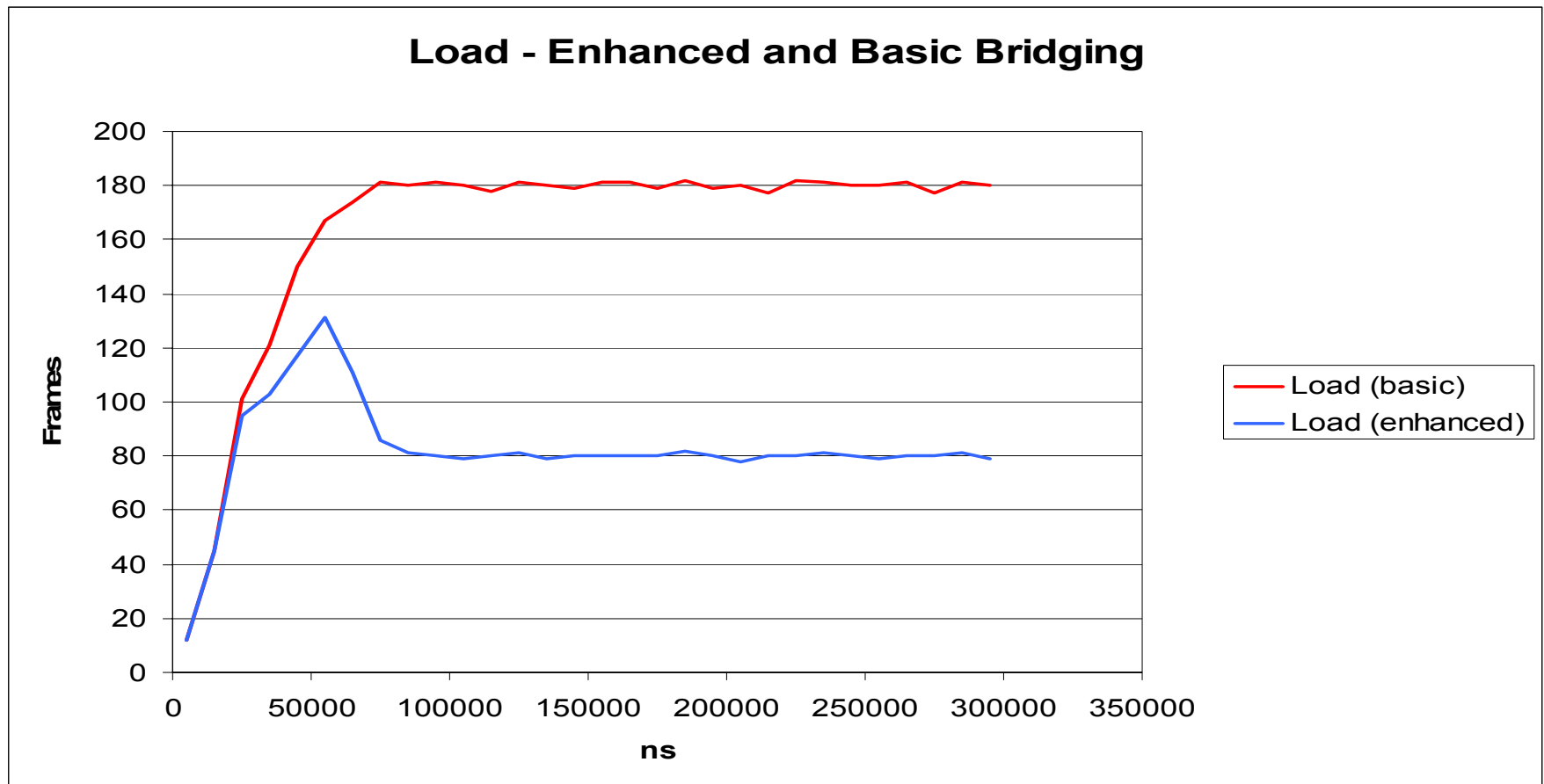
Traffic Pattern

- FTP alike traffic
 - Sa starts sending frames
 - 1kB frames from Sa to Sb
 - 80B frames (“ack”) from Sb to Sa
 - Sb sends “ack” for every frame received from Sa

Simulation Results 1



Simulation Results 2





Conclusion

- Enhanced bridging allows for spatial reuse in the presence of bridged traffic
- Network load savings may be significant



Further Information

- Simulator Source code:
 - http://www.stud.ifi.uio.no/~amundk/rpr/ak_brdgsim.zip

Feedback

- Bridging related analysis/simulation work
 - Work assignment
 - Discussion

Contact Persons

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