

SCTP Internet Drafts

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draft-ietf-tsvwg-dtls-for-sctp-00.txt

- Robin Seggelmann implemented it and it works with OpenSSL 0.9.8k (latest and greatest) in combination with FreeBSD 8.0 CURRENT.
- A patch for OpenSSL 0.9.8k is available from <http://sctp.fh-muenster.de> and an interop server is running at <http://interop.fh-muenster.de>.
- Implementing this resulted in comments to the DTLS specification and bug fixes for the implementation.
- It needs a security considerations section.
- Then it is ready for WG last call.

draft-ietf-tsvwg-sctpsocket-19.txt

- Support for DTLS/SCTP is there...
- Comments we got since last IETF:
 - Make the API extensible instead of adding continuously new functions: `sctp_sendmsg()`, `sctp_send()`, `sctp_sendx()`, ... This will make use of CMSG macros.
 - Make the API extensible instead of continuously expanding struct `sctp_event_subscribe` resulting in ABI issues.
 - Adding a generalization for the `SENDER_DRY` notification. The problem: How to handle 'notifications storms'.

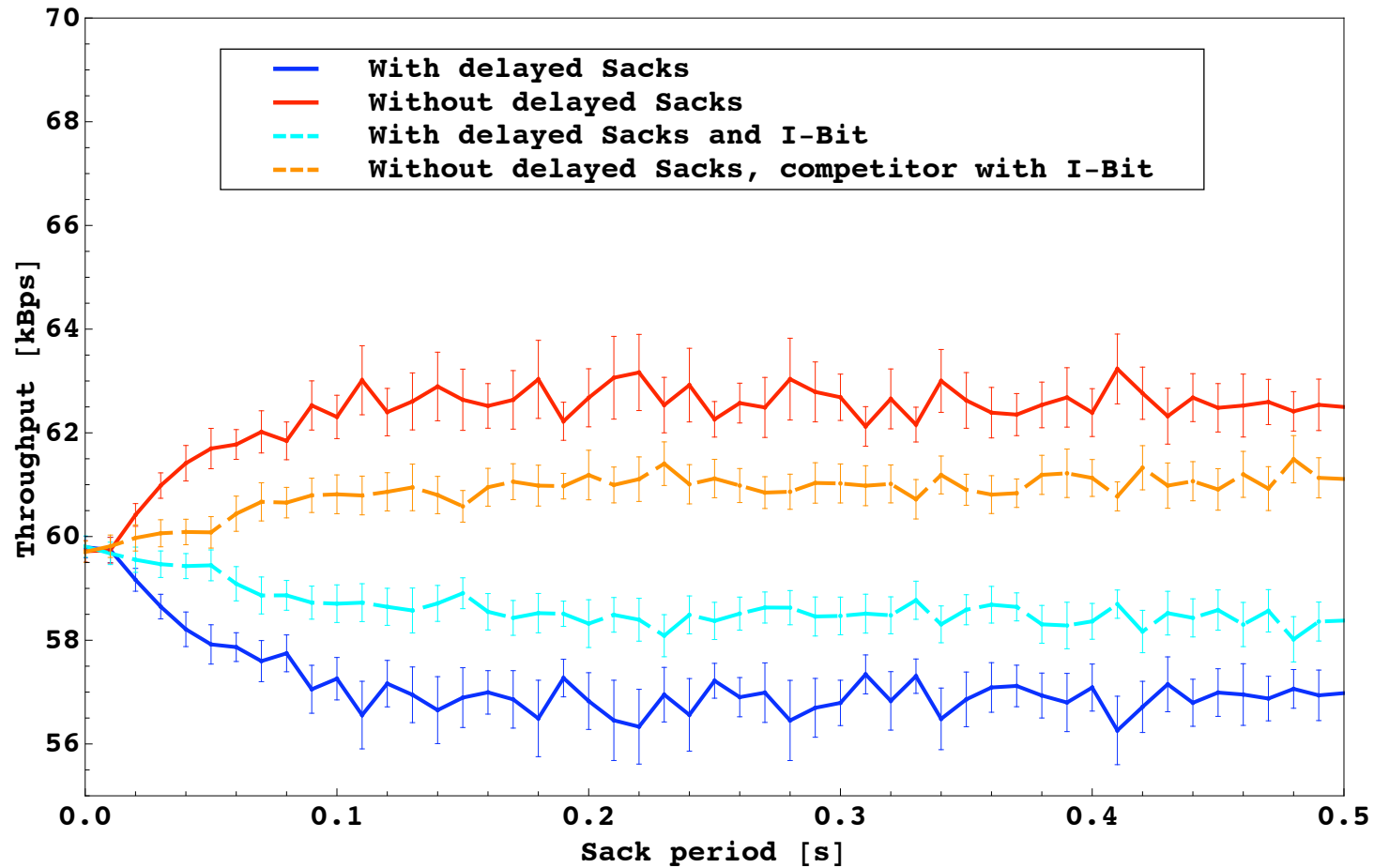
draft-tuexen-tsvwg-sctp-sack- immediately-01.txt

- SCTP uses delayed SACKs.
- There are situations where it should not be delayed.
- RFC 4960 only deals with receiver side exceptions to the general rule.
- This extension adds support for handling sender side driven exceptions.
- Partly implemented in FreeBSD 8.0 CURRENT.

draft-tuexen-tsvwg-sctp-sack-immediately-01.txt

- Benefits:
 - For short living connections it can save up to 200ms of association lifetime. Thus it substantially reduces the number of simultaneous associations.
 - Mitigates consequences of misconfigurations (delayed SACK timer and RTO timer).
 - Saves up to a second for the DTLS handshake.
 - Mitigates negative interactions of Nagle algorithm and delayed SACKs (this comes up very often...).

draft-tuexen-tsvwg-sctp-sack- immediately-01.txt



draft-stewart-tsvwg-sctpstrrst-01.txt

- Implemented since FreeBSD 7.0 RELEASE, the INET simulator and Emersons implementation.
- Tested at the 9th SCTP Interop at Kyoto University in August 2007.
- Adding of Streams has recently been added and is implemented FreeBSD 8.0 CURRENT.
- Requested by the IPFIX WG.
- Should it be adopted as a WG item and progressed?

draft-stewart-tsvwg-sctp-nonce-00.txt

- It is out for many years as an individual submission.
- Implemented in FreeBSD 7.0 RELEASE.
- Describes the procedures for handing the messages already defined in RFC 2960/RFC 4960 for ECN and ECN-NONCE.
- Are we still doing ECN? Should this ID be progressed?