SCTP Socket API

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Supported RFCs

• Basic SCTP: RFC 4960.
• PR-SCTP extension: RFC 3758.
• SCTP-AUTH extension: RFC 4895.
• ADD-IP extension: RFC 5061.
Deployment

• FreeBSD 7.0
• Linux 2.6 kernel
• Solaris 10
• HP-UX
• AIX
• Mac OS X (NKE, based on FreeBSD code)
• socketapilib for sctplib
Status

• Set of functions is very stable.
• Support of generic functions widely available.
• Some SCTP specific functions are not yet always implemented.
• Not all socket options are available on all platforms.
• Last change of a function signature is a year old…
SCTP on FreeBSD

- Implements all functions.
- Supports almost all structures in the current form.
- Experience with applications stressing the API:
  - MPI implementations.
  - RSerPool implementation.
  - Sigtran implementation.
Upcoming Changes

• Based on the results of a discussion at the last SCTP Interop with participation of FreeBSD, Linux and Solaris implementers.

• Clarifications to some sections, removal of unused stuff.

• Changing to some C structures.