DCCP Implementation on BSDs

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What is this, Where is it?

- Preliminary DCCP implementation for BSDs
- Based on FreeBSD implementation by Lulea University
  - Support current specs
  - Bug fixes and some clean-ups
  - Support multiple OSs

- Code is merged in KAME
  - Use ftp/anoncvs/cvsup to get the code
    - Weekly snapshot
      - ftp://ftp.kame.net/pub/kame/snap/
    - See http://www.kame.net for more detailed info.

Current Status

- Current Supported OSs
  - NetBSD2.0, FreeBSD5.4
  - OpenBSD is under development

- Current Supported I-Ds
  - draft-ietf-dccp-spec-11.txt
  - draft-ietf-dccp-ccid2-10.txt
  - draft-ietf-dccp-ccid3-11.txt

Interoperability with Linux implementation

□ Mostly OK
  ○ After tiny fixes, Linux and NetBSD can communicate with DCCP successfully!

□ Two minor issues were found
  ○ Feature Negotiation
  ○ Time Stamp Option

Current Interoperability Issues

☐ Feature Negotation
 ○ Linux implementation does not support feature negotiation, while KAME implementation waits for it to establish a connection
  ▷ NetBSD implementation has a sysctl parameter that can disable feature negotiation to solve this issue

☐ Time Stamp Option
 ○ KAME implementation ignores ACKs without elapsed time option, but Linux implementation seems not to include elapsed time option in ACKs
  ▷ Elapsed time option becomes mandatory in recent drafts

☐ Need more tests and analysis!

○ Feedback Wanted!
○ Especially for CCID3 implementation!

Further information will be updated at:
http://www.jp.nishida.org/dccp/