Header Compression

Delta2 + HeaderDiff

Overview

- Header table

- Delta2 diff encoding

- HeaderDiff wire syntax

Header Table

- Maps (name, value) pairs to indexes

- Limited size (default 4096 bytes)

  - Name length + Value length + 32 bytes

- Least Recently Written value dropping when oversize

Diff Encoding

- Previous header set used as reference

- Code differences

    - Indexed value act as a toggle

    - Literal value added to header set

- New reference set: only indexed values of previous header set

Wire Syntax

- Representation choice through 2-3 bits

- Indexed representation

- Literal representation

  - Not indexed

  - Indexed as new value

  - Indexed as replacement

Other

- Ack for table size reduction

  - HEADER frame on stream 0

Missing?

- Huffman encoding?

- Typed encoding?

Questions?