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?