Local Activity Report in Japan

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JP

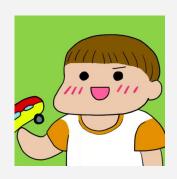
Member





















and more and more maybe upto 30~40

Implementations

HTTP2



nghttp2 C Draft-10



iij-http2 node.js Draft-10



http2-go Go Draft-10

HPACK



node-http2-hpack node.js Draft-6



haskell-http2 haskell Draft-6

Local Activity in Japan

• meetup

```
#1 2013/Aug, 34 atnds
#2 2013/Oct, 43 atnds
#3 2014/Jan, 60 atnds
```

hackathon

```
#1 2013/Oct, 6 atnds
#2 2013/Dec, 9 atnds
#3 2014/Feb, 23 atnds
```

• interop

```
hpack-test-case
```

resources

```
o http://http2.info
```

Meetup - #http2study

Speaker

```
o tatsuhiro_t (about nghttp2)
```

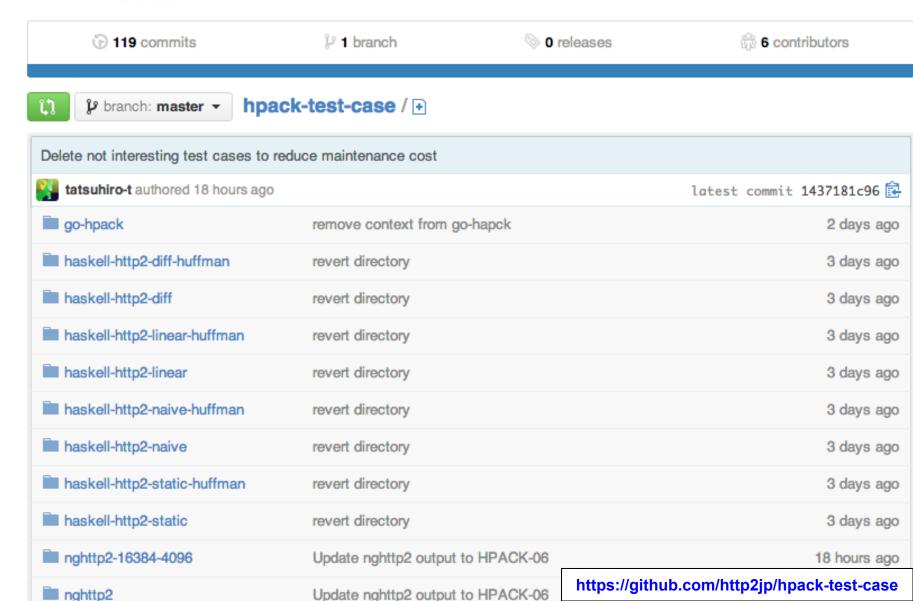
- o shigeki (about interim)
- o fujiwara (about hpack history)
- o kazu (about hpack bench)
- o etc



Hackathon



HPACK Test Case - Edit



HPACK Test Case

- encode same headers into wire
- interop with other impls

```
"draft": 6,
"cases": {
 "header table size": 4096,
 "headers": [
   { ":method": "GET" },
   { ":scheme": "http" },
   { ":authority": "yahoo.co.jp" },
   { ":path": "/" }
 "wire":
"82870388f4466d6912d2717787"
```

```
"draft": 6,
"cases": {
  "header table size": 4096,
  "headers": [
   { ":method": "GET" },
   { ":scheme": "http" },
   { ":authority": "yahoo.co.jp" },
   { ":path": "/" }
 "wire":
"80808287030b7961686f6f2e636f2e6a7087"
```

HPACK Test Case

compare compression ratio

Compression Ratio

Edit Page Page History

Clone URL

The each cell has X (Y/Z) format:

X: Y / Z

Y: Number of bytes after compression

Z: Number of bytes before compression

story	go-hpack	haskell-http2-diff	haskell-http2- diff-huffman	haskell-http2- linear	haskell-http2- linear-huffman	haskell-l naiv
story_00.json	1.01 (185/183)	0.48 (87/183)	0.36 (65/183)	0.52 (95/183)	0.40 (73/183)	1.23 (225/1
story_01.json	1.03 (184/178)	0.37 (65/178)	0.31 (56/178)	0.40 (72/178)	0.35 (63/178)	1.24 (221/1
story_02.json	0.83 (2865/3456)	0.26 (897/3456)	0.19 (653/3456)	0.28 (978/3456)	0.21 (734/3456)	1.09 (3770
story_03.json	0.85 (2648/3113)	0.19 (590/3113)	0.14 (446/3113)	0.22 (670/3113)	0.17 (526/3113)	1.10 (3430
story_04.json	0.85 (2648/3113)	0.19 (590/3113)	0.14 (446/3113)	0.22 (670/3113)	0.17 (526/3113)	1.10 (3430
story_05.json	0.85 (2924/3455)	0.19 (667/3455)	0.15 (507/3455)	0.22 (748/3455)	0.17 (588/3455)	1.10 (3796
story_06.json	0.85 (2958/3489)	0.29 (1013/3489)	0.23 (797/3489)	0.31 (1099/3489)	0.25 (883/3489)	1.09 (3808
story_07.json	0.84 (2697/3192)	0.23 (733/3192)	0.18 (559/3192)	0.25 (812/3192)	0.20 (638/3192)	1.10 (3512
story_08.json	0.84 (3376/4006)	0.30 (1202/4006)	0.24 (942/4006)	0.32 (1272/4006)	0.25 (1012/4006)	1.09 (4349
story_09.json	0.84 (2781/3309)	0.25 (817/3309)	0.19 (628/3309)	0.27 (894/3309)	0.21 (705/3309)	1.10 (3630

https://github.com/http2jp/hpack-test-case/wiki/Compression-Ratio



HTTP/2 JAPAN LOCAL ACTIVITY

Materials

- HTTP/2 draft-09 (Japanese translation)
- HPACK Test Case

Meetup

- HTTP/2 Study #3 (2014/1/28)
- HTTP/2 Study #2 (2013/10/17)
- HTTP/2 Study #1 (2013/08/14)

Hackathon

- HTTP/2 Hackathon #1 (2014/2/23)
- HTTP/2 Mini Hackathon #2 (2013/12/15)
- HTTP/2 Mini Hackathon #1 (2013/10/12)

Presentations

- HTTP2 最速実装 ~入門編~
- httpbis interim@チューリッヒ レポート

Writing I-D

- about HTTP/2 and HPACK
 - Survey of Current Implementations
 - Result of Interop test
 - Knowledge of implementation
- Publish
 - o as Infomational Draft
 - on April



thanks:)

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