

HTTP/2 Local Activities Report in Japan

November 2014, IETF91

httpbis

Kaoru Maeda
kaorumaeda.ml@gmail.com
@mad_p, github/mad-p

HTTP/2 

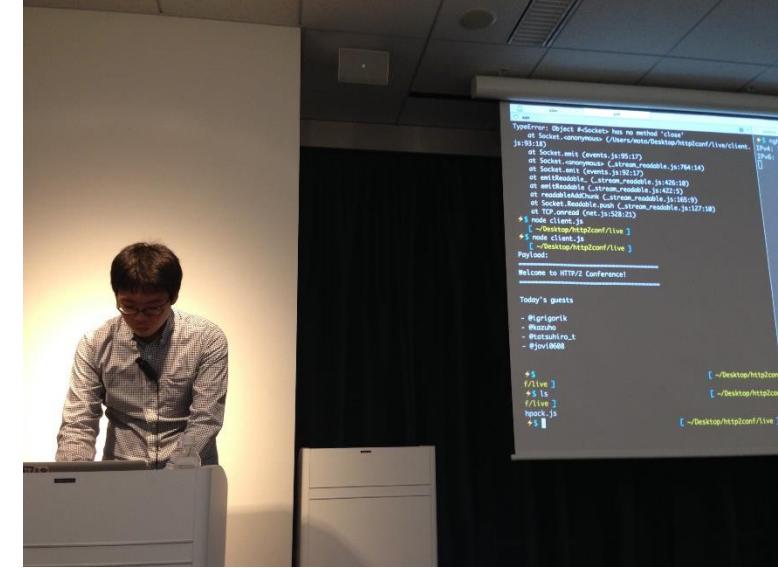
HTTP/2 Conference Tokyo 2014

- Nov. 3, 2014 Tokyo
- ~100 attendees
- Guest Speaker: Ilya Grigorik (author of HPBN)



Talks and slides

- jxck: [HTTP2Study chronicle](#)
- igrigorik: [HTTP/2 all the things!](#)
- summerwind: [Live coding](#) 
 - [Implementing HTTP/2 client in 60 minutes](#)
- tatsuhiko-t: [nghttp2](#)
- kazuho: [h2o the optimized HTTP server](#)
- shigeki: [Technical Overview of QUIC](#)
- Panel discussion: jxck, igrigorik, tatsuhiko-t, kazuho



Excerpts from HTTP/2 Conf.

- New HTTP/2 server implementation h2o by kazuho
 - To realize http everywhere
 - Starting performance competition now benefits everyone
 - Fast HTTP/1.1 header parser, pre-compiled sprintf
- Priority
 - Only nghttp2 and iij-http2 implement dependency tree
 - Implementers are motivated to implement priority
- Implementation hurdles
 - Asynchronous I/O
 - HPACK is simplified now. hpack-test-case helps

Implementations updated to -14



nghhttp2

C

tatsuhiro-t



sasazka **New**

node.js

summerwind



iij-http2

node.js

shigeki



haskell-http2

Haskell

kazu-yamamoto



http2-go

Go

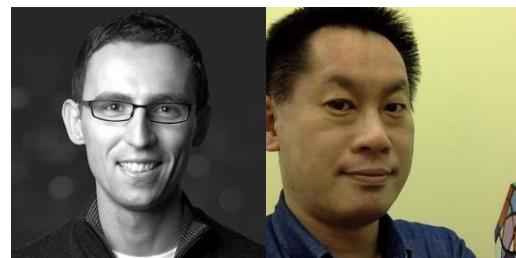
jxck



h2o **New**

C

kazuho



http-2

Ruby

igrigorik + mad-p

Meetup - #http2study

- #1 2013/08/14
- #2 2013/10/17
- #3 2014/01/28
- #4 2014/03/20
- #5 2014/07/30
- IETF briefing session
- spec discuttion
- implementation tips
- project sharing
- etc



Hackathon

- #1 2014/02/23
- #2 2014/05/24
- #3 2014/09/06
- **issueton** 2014/04/12
 - discuttion on http2 issues on ML & github



HPACK Test Case

- encode same headers into wire
- interop with other impls

```
{  
  "cases": [  
    {  
      "seqno": 0,  
      "headers": [  
        { ":method": "GET" },  
        { ":scheme": "http" },  
        { ":authority": "yahoo.co.jp" },  
        { ":path": "/" }  
      ]  
,  
...  
]
```

implementations result

1. “8286418cf1e3c2fe8739ceb90ebf4aff84”
2. “0283c5837f06839d29af0188f439ce75c875fa57048163”
3. “82864188f439ce75c875fa5784”
4. “0085b9495339e483c5837f0085b8824e5a4b839d29af0088b83b5339ec327d7f88f439ce75c875f070004b0f0d22f0163”

<https://github.com/http2jp/hpack-test-case>

Test Frame Case (WIP)



To test frame header encoding,
error handling of corrupted frames

test case for encode/decode http2 frame. — Edit

7 commits

1 branch

0 releases

1 contributor



branch: master

[http2-frame-test-case](#) / +



update readme

Jxck authored on Sep 6

latest commit b21f955e28

	continuation	add directory for each frame	2 months ago
	data	add directory for each frame	2 months ago
	goaway	add directory for each frame	2 months ago
	headers	add directory for each frame	2 months ago
	ping	add directory for each frame	2 months ago
	priority	add directory for each frame	2 months ago
	push_promise	add directory for each frame	2 months ago
	rst_stream	add directory for each frame	2 months ago
	settings	add directory for each frame	2 months ago
	window_update	add directory for each frame	2 months ago

<https://github.com/http2jp/http2-frame-test-case>



Thank you

HTTP/2 JP

