Local Activity Report in Japan

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IETF 89
httpbis

Jxck (https://jxck.io)
Hirotaka Nakajima (http://www.w3.org/People/Hiro/)
HTTP/2 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 atndhs
  ○ #2 2013/Oct, 43 atndhs
  ○ #3 2014/Jan, 60 atndhs

● **hackathon**
  ○ #1 2013/Oct, 6 atndhs
  ○ #2 2013/Dec, 9 atndhs
  ○ #3 2014/Feb, 23 atndhs

● **interop**
  ○ hpack-test-case

● **resources**
  ○ http://http2.info
Meetup - #http2study

- **Speaker**
  - tatsuhiro_t (about nghttp2)
  - shigeki (about interim)
  - fujiwara (about hpack history)
  - kazu (about hpack bench)
  - etc
Hackathon
Delete not interesting test cases to reduce maintenance cost

<table>
<thead>
<tr>
<th>Directory</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>go-hpack</td>
<td>remove context from go-hapck</td>
<td>2 days ago</td>
</tr>
<tr>
<td>haskell-http2-diff-huffman</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>haskell-http2-diff</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>haskell-http2-linear-huffman</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>haskell-http2-linear</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>haskell-http2-naive-huffman</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>haskell-http2-naive</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>haskell-http2-static-huffman</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>haskell-http2-static</td>
<td>revert directory</td>
<td>3 days ago</td>
</tr>
<tr>
<td>nghttp2-16384-4096</td>
<td>Update nghttp2 output to HPACK-06</td>
<td>18 hours ago</td>
</tr>
<tr>
<td>nghttp2</td>
<td>Update nghttp2 output to HPACK-06</td>
<td></td>
</tr>
</tbody>
</table>

https://github.com/http2jp/hpack-test-case
HPACK Test Case

- encode same headers into wire
- interop with other impls

```json
{
  "draft": 6,
  "cases": {
    "header_table_size": 4096,
    "headers": [
      { ":method": "GET" },
      { ":scheme": "http" },
      { ":authority": "yahoo.co.jp" },
      { ":path": "/" }
    ],
    "wire": "82870388f4466d6912d2717787"
  }
}
```
HPACK Test Case

- compare compression ratio

![Compression Ratio Table]

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
  - as Infomational Draft
  - on April
thanks :)  
Local Activity in Japan