```
Contribution Guidelines
Security Process
Building Android binary
Building Android braury
Tutoriak HTTP/2 client
Tutoriak HTP/2 severe
Tutoriak HPACK API
nghttp(1)
nghttp(1)
nghttp(1)
hZbad[1)
hZbad[1)
hZbad[1)
hZbad[1)
hZbad[1)
hZbad - HTTP/2 proxy - HOW-TO
hZbad - HTTP/2 brothmarking tool
HOW-TO
```

```
Programmers' Guide

☐ API Reference
   Macros
    Types (structs, unions and typedefs)
   nghttp2_check_authority
nghttp2_check_header_name
   nghttp2_check_header_value
nghttp2_check_header_value_rfc9113
   nghttp2_check_method
nghttp2_check_path
   nghttp2_hd_deflate_bound
    nghttp2_hd_deflate_del
    nghttp2_hd_deflate_get_dynamic_table_size
    nghttp2_hd_deflate_get_max_dynamic_table
    nghttp2_hd_deflate_get_num_table_entries
nghttp2_hd_deflate_get_table_entry
    nghttp2_hd_deflate_hd
nghttp2_hd_deflate_hd_vec
   nghttp2_hd_deflate_new
nghttp2_hd_deflate_new2
    nghttp2_hd_inflate_change_table_size
```

nghttp2_hd_inflate_end_headers nghttp2_hd_inflate_get_dynamic_table_size

nghttp2_hd_inflate_get_max_dynamic_table nghttp2_hd_inflate_get_num_table_entries nghttp2_hd_inflate_get_table_entry

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nghttp2_select_next_protocol
```

* » API Reference » nghttp2_select_next_protocol

Synopsis

#include <nghttp2/nghttp2.h>

int nghttp2_select_next_protocol(unsigned char **out, unsigned char *outlen, const unsigned char *in, unsigned thir inlan)

A helper function for dealing with NPN in client side or ALPN in server side. The *in* contains peer's protocol list in preferable order. The format of *in* is length-prefixed and not null-terminated. For example, [b2] and [http:/l.1] stored in *in* like this:

```
in[0] = 2
in[1..2] = "h2"
in[3] = 8
in[4..11] = "http/1.1"
inlen = 12
```

The selection algorithm is as follows:

- If peer's list contains HTTP/2 protocol the library supports, it is selected and returns 1. The following step is not taken.

 If peer's list contains | http://i.i. this function selects | http://i.i. and returns 0. The following step is not taken.

 This function selects nothing and returns -1 (So called non-overlap case). In this case, out and outlen are left untouched.

Selecting $\fbox{\ \ h2\ \ }$ means that $\fbox{\ \ h2\ \ }$ is written into *out and its length (which is 2) is assigned to

For NPN, to use this method you should do something like:

```
{
    int rv;
    rv - nghttp2_select_next_protocol(out, outlen, in, inlen);
    if (rv = -1) {
        return SSL_TLSEXT_ERR_NOACK;
    }
    }
if (rv == 1) {
    ((MyType*)arg)->http2_selected = 1;
 ...
SSL_CTX_set_next_proto_select_cb(ssl_ctx, select_next_proto_cb, my_obj);
```

O Previous

Next O

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