

NAME

cap_getprotobyname, - library for getting network proto entry in capability mode

LIBRARY

library "libcap_netdb"

SYNOPSIS

```
#include <sys/nv.h>
#include <libcasper.h>
#include <casper/cap_netdb.h>
```

```
struct protoent *
```

```
cap_getprotobyname(const cap_channel_t *chan, const char *name);
```

DESCRIPTION

The function **cap_getprotobyname()** is equivalent to **getprotobyname(3)** except that the connection to the **system.netdb** service needs to be provided.

EXAMPLES

The following example first opens a capability to casper and then uses this capability to create the **system.netdb** casper service and uses it to look up a protocol by name.

```
cap_channel_t *capcas, *capnetdb;
struct protoent *ent;

/* Open capability to Casper. */
capcas = cap_init();
if (capcas == NULL)
    err(1, "Unable to contact Casper");

/* Enter capability mode sandbox. */
if (caph_enter() < 0)
    err(1, "Unable to enter capability mode");

/* Use Casper capability to create capability to the system.netdb service. */
capnetdb = cap_service_open(capcas, "system.netdb");
if (capnetdb == NULL)
    err(1, "Unable to open system.netdb service");

/* Close Casper capability, we don't need it anymore. */
```

```
cap_close(capcas);
```

```
ent = cap_getprotobyname(capnetdb, "http");  
if (ent == NULL)  
    errx(1, "cap_getprotobyname failed to find http proto");
```

SEE ALSO

cap_enter(2), caph_enter(3), err(3), getprotobyname(3), capsicum(4), nv(9)

AUTHORS

The **cap_netdb** service was implemented by Ryan Moeller <freqlabs@FreeBSD.org>.