

NAME

netconfig - network configuration data base

SYNOPSIS

/etc/netconfig

DESCRIPTION

The **netconfig** file defines a list of "transport names", describing their semantics and protocol. In FreeBSD, this file is only used by the RPC library code.

Entries have the following format:

network_id semantics flags family protoname device libraries

Entries consist of the following fields:

network_id The name of the transport described.

semantics Describes the semantics of the transport. This can be one of:

tpi_clts Connectionless transport.

tpi_cots Connection-oriented transport

tpi_cots_ord Connection-oriented, ordered transport.

tpi_raw A raw connection.

flags This field is either blank (specified by "-"), or contains one or more of the following characters:

b The network represented by this entry is broadcast capable. This flag is meaningless in FreeBSD.

v The entry may be returned by the getnetpath(3) function.

family The protocol family of the transport. This is currently one of:

inet6 The IPv6 (PF_INET6) family of protocols.

inet The IPv4 (PF_INET) family of protocols.

loopback The PF_LOCAL protocol family.

protoname The name of the protocol used for this transport. Can currently be either **udp**, **tcp** or empty.

device This field is always empty in FreeBSD.

libraries This field is always empty in FreeBSD.

The order of entries in this file will determine which transport will be preferred by the RPC library code, given a match on a specified network type. For example, if a sample network config file would look like this:

```
udp6   tpi_clts   v   inet6  udp   -   -
tcp6   tpi_cots_ord v   inet6  tcp   -   -
udp    tpi_clts   v   inet   udp   -   -
tcp    tpi_cots_ord v   inet   tcp   -   -
rawip  tpi_raw    -   inet    -   -   -
local  tpi_cots_ord -   loopback -   -   -
```

then using the network type **udp** in calls to the RPC library function (see `rpc(3)`) will make the code first try **udp6**, and then **udp**.

`getnetconfig(3)` and associated functions will parse this file and return structures of the following format:

```
struct netconfig {
    char *nc_netid;           /* Network ID */
    unsigned long nc_semantics; /* Semantics */
    unsigned long nc_flag;    /* Flags */
    char *nc_protobufmly;     /* Protocol family */
    char *nc_proto;           /* Protocol name */
    char *nc_device;          /* Network device pathname (unused) */
    unsigned long nc_nlookups; /* Number of lookup libs (unused) */
    char **nc_lookups;        /* Names of the libraries (unused) */
    unsigned long nc_unused[9]; /* reserved */
};
```

FILES

/etc/netconfig

SEE ALSO

getnetconfig(3), getnetpath(3)