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 a "v", meaning visible to the `getnetconfig`(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 (see below) */
    unsigned long nc_flag;       /* Flags (see below) */
    char *nc_protofmly;          /* 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)