

NAME

dhcpmemu-gen – Generate a list of pseudo-clients.

SYNOPSIS

dhcpmemu-gen [**--type=cm|cpe**] [**--number=number**] [**--outfile=filename**]

DESCRIPTION

dhcpmemu-gen creates a database suitable for loading by **dhcpmemu** the multi-threaded DHCP client emulator. It does so directly, without creating any intermediate text file. The MAC addresses generated are not random, but have bits set in the address in the following conventional manner:

bits 0-8	Equal to one for a cable modem, or two otherwise.
bits 9-24	A value unique (or nearly so) to the current invocation of dhcpmemu-gen
bits 25-48	A monotonic counter beginning at zero and ending with <i>number</i> . Thus, only $2^{*}24$ clients (approx 8 million) clients can be generated with any one invocation.

The *client-identifier* corresponding to the hardware address is formed according to the well established microsoft convention of taking the hardware address, prepending a single octet with the value of the hardware type (assumed **ethernet**=1) thus creating an identifier of seven octets.

The *circuit-identifier* is generated with a length of one, and a value equal to the monotonic counter modulo 256. It is improbable that this value will be meaningful to the DHCP server.

The MAC address of the CM associated with the CPD is identical to that of the CPD but with bits 0-8 changed to be unity instead of two.

OPTIONS

-o filename **--outfile=filename**

The name of the data file to be created by **dhcpmemu-gen** (default: **dhcpmemu.ld**).

-n number **--number=number**

The number of records to generate (default=100).

-t type **--type=type**

The client type, either **cm** or **cpe**. If this command line option is absent then **dhcpmemu-gen** generates an equal number of CM's and CPD's.

SEE ALSO

dhcpmemu.1, **dhcpmemu-load.1**.