

MEMORANDUM

To: PDP-1 Users
From: B. Cosell
Subject: New PDP-1 EXEC
Date: 8 March 1972

I decided that the design of the network IOTs, although adequate, was miserably minimal. Since there were already several dozen known changes to the code, I took advantage of the necessary reassembly to change the way the EXEC handles the network. I also moved time and date back to their former locations (33 and 34 in Core 15).

Here are the new IOTs for accessing the network:

GETNET Establishes user as "net handler".

Returns:

R1 - somebody else is "net handler".
R2 - you've got it.

RLSNET Release net — de-assigns you as net handler
Gives return one whether you were net handler or not.

NETPOK Wake up the net handler. One return.

IMPUP Skips if the IMP is ready.

The following IOTs may be executed only by the net handler:

NETIN Do an input from the network. AC points to next word to read into. IO points to first word not to read into.

Returns:

R1 - nothing coming. AC updated if part of a message read.

R2 - error on input.

R3 - input completed - AC updated.

NETOUT

Do an output to the network. AC points to the next word to send. IO is the last word to send. (Note that this is *not* symmetrical with NETIN).

Returns:

R1 - network won't take it. AC updated to reflect how much has been sent so far.

R2 - message sent.

NETSLP

Make net handler dormant for number of seconds in AC (as for "DELAY"). The handler will be given R1 when the time runs out, if input from the net comes along, if the network is ready for more output, or if a NETPOK is done.

BC/jm