

Bernie

## MEMORANDUM

To: Software Distribution List

From: J. B. Levin

Subject: PDP-1d Network Handler

SD#34

Date: November 15, 1972

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1. Since I am thus far the only person who has written programs using the network handler queues, I have felt free to modify the structure of the queues. I removed three spare words and included the first twelve words of message in the queue blocks. This has not changed the lengths of either the queue block or the queue item (as shown in the attached crib sheet). The change is motivated by the size of the TIP's allocate: now that it fits entirely in the queue block, SYSNET writes and NETLIST reads are saved, and NETLIST runs roughly 20% - 30% faster.
2. Also a bug which caused SYSNET to crash every few days was fixed (I hope).

JBL/ph

NETWORK INPUT QUEUE ITEM STRUCTURE

OVERHEAD-	/	!	!	QUEUE ITEM LENGTH (204)
	!	!	!	RE-WRITE NUMBER
	!	!	!	CHAIN POINTER TO PREVIOUS ITEM
	\	!	!	REL. POINTER TO FIRST EMPTY BLOCK
	/	!XXX!	!	MSG WORD 0 (LEADER)
	!	!XXX!	!	MSG WORD 1 (LINK)
	!	!XXX!	!	MSG WORD 2
	!	!XXX!	!	MSG WORD 3
	!	!XXX!	!	MSG WORD 4
	!	!XXX!	!	MSG WORD 5
	!	!XXX!	!	MSG WORD 6
	!	!XXX!	!	MSG WORD 7
8.	!	!XXX!	!	MSG WORD 8
	!	!XXX!	!	MSG WORD 9
	!	!XXX!	!	MSG WORD 10
	!	!XXX!	!	MSG WORD 11
	!	!	!	POINTER TO MESSAGE ITEM IF LONGER THAN 12 WORDS
	!	!	!	LENGTH OF MESSAGE (WORDS)
	!	!	!	DATE PLACED ON QUEUE
	\	!	!	TIME PLACED ON QUEUE