AUGUST, 1974, SURVEY OF NEW-PROTOCOL TELNET SERVERS

THIS IS THE FIRST OF WHAT ARE PLANNED TO BE MONTHLY REPORTS ON THE STATUS OF THE NEW-PROTOCOL TELNET IMPLEMENTAIONS ON THE SERVER HOSTS ON THE ARPA NETWORK. INCLUDED IN THIS REPORT ARE DATA ONLY ON SERVER TELNETS AT THE VARIOUS SITES. ONE WOULD HOPE THAT ANY SITE WITH AN OPERATIONAL NEW-PROTOCOL SERVER TELNET WOULD ALSO BOAST A NEW-PROTOCOL USER TELNET; WE CAN CERTAINLY ASSUME THIS FOR TENEX SITES AT WHICH TENEX 1.32 IS OPERATING. HOWEVER, NO FURTHER CLAIMS ARE MADE FOR THE SERVER DATA CONTAINED IN THIS REPORT.

I AM SORRY TO REPORT THAT AT THIS LATE DATE, A MONTH AFTER THE RELEASE OF TENEX 1.32, LESS THAN ONE-THIRD OF THE SERVER SITES HAVE ANY NEW-PROTOCOL SERVER OPERATING, ACCORDING TO MY SURVEYS*, AND ONLY HALF OF THOSE ARE USING CORRECTLY THE LOGGER SOCKET CONVENTIONS, AS I UNDERSTAND THEM. AT THE END OF THIS REPORT IS A COMPLETE TABULATION COMPILED FROM MY SURVEYS; THE FOLLOWING IS A SUMMARY:

TOTAL SERVER HOSTS	32	100%
STATUS UNKNOWN (1)	3	9%
NO NEW-PROT SERVER	19	59%
TOTAL NEW-PROT IMPLEM.	10	31%
NEW-PROT ON SOCKET 27, OLD ON SOCKET 1 (2)	5	16%
NEW-PROT ON 1 AND 27 (3)	4	13%
NEW-PROT ON 1 ONLY (3)	1	3%

NOTES:

* ALL DATA IN THIS REPORT WERE GATHERED VIA A SURVEYING PROGRAM RUN AT VARIOUS TIMES, PLUS A FEW MANUAL CHECKS TO FILL OUT THE DATA. WHAT IS REPORTED HERE IS THE WAY THE VARIOUS SERVERS WORK AS SEEN BY THE NEW-PROTOCOL USER TELNET AT BBNA, AS OF 15 AUG. 1974. THERE MAY BE DISCREPANCIES BETWEEN THESE RESULTS AND THOSE FROM SURVEYS MADE AT OTHER SITES.

(1) NUMEROUS ATTEMPTS TO CONNECT TO THESE SITES ALL FAILED DUE TO THE SITES' BEING DOWN TO THE NETWORK.

(2) THESE ARE THE SITES WHOSE OPERATION IS 100% CORRECT ACCORDING TO ALL PROTOCOLS AND CONVENTIONS, AS I UNDERSTAND THEM.

(3) WE REALIZE THAT SOME OF THE SERVERS THAT APPEAR HERE AS NEW-PROTOCOL SERVERS ON SOCKET 1 ARE ACTUALLY SERVERS WHICH ATTEMPT TO COMMUNICATE WITH BOTH OLD- AND NEW-PROTOCOL USER TELNETS ACCORDING TO WHAT CONTROL SEQUENCES ARE RECEIVED.

TABULATION OF SERVER STATUS FOR ALL SERVER SITES:

HOST NO.	HOST NAME	SOCKET 1	SOCKET 27	NEW-PROT. OPTIONS IMPLEMENTATED (IF ANY)
1	UCLA-NMC	?	?	
101	UCLA-CCN	OLD	X	
201	UCLA-CCBC	OLD	X	
2	SRI-ARC	OLD	X	
102	SRI-AI	OLD	X	
3	UCSB-MOD75	OLD	X	
4	UTAH-10	OLD	X	
105	BBN-TENEX	OLD	NEW	I1,3,6; 03
205	BBN-TENEXB	OLD	NEW	I1,3,6; 03
305	BBN-TENEXA	OLD	NEW	I1,3,6; 03
106	MIT-DMS	NEW	NEW	I1,3; 03
206	MIT-AI	OLD	X	
306	MIT-ML	OLD	X	
10	SDC-LAB	?	?	
11	HARV-10	NEW	X	I1,3; 03
12	LL-67	OLD	X	
112	LL-TX-2	OLD	X	
13	SU-AI	NEW*	NEW*	I1,3
15	CASE-10	OLD	X	
16	CMU-10B	NEW	NEW	I1,3; 03
116	CMU-10A	NEW	NEW	I1,3; 03
17	I4-TENEX	OLD	X	
117	I4-TENEXA	?	?	
20	AMES-67	OLD	OLD(1)	
126	USC-ISI	OLD	X	
27	USC-44	OLD	X	
32	SDAC	OLD	X	
37	CCA-TENEX	OLD	X	
40	PARC-MAXC	OLD	NEW	I1,3,6; 03
43	UCSD-CC	OLD	NEW	IO(1),3; 00,3
53	OFFICE-1	OLD	X	
54	MIT-MULTICS	NEW	NEW	NONE

KEY:

X NO SEVER AT THIS SOCKET
? STATUS UNKNOWN
I# OPTION # IMPLEMENTED INCOMING TO USER
(SERVER SAYS "WILL #")
O# OPTION # IMPLEMENTED OUTGOING FROM USER
(SERVER SAYS "DO #")
(# IS OPTION NUMBER IN NEW PROTOCOL. ALL OPTIONS
IMPLEMENTED BY ANYONE ARE:
0 TRANSMIT-BINARY
1 ECHO
3 SUPRESS-GO-AHEAD
6 TIMING MARK)

NOTE: * THERE APPEARS TO BE A MINOR BUG IN SU-AI'S SERVER: IT SEEMS TO SEND AN IMPROPER RESPONSE TO A REQUEST FOR OPTION O.

SUBMITTED 20 AUGUST 1974
BY D. W. DODDS