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:

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        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%
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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)

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  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
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KEY:

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        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 )
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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.

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   SUBMITTED 20 AUGUST 1974
   BY D. W. DODDS
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