DATA AND FILE TRANSFER WORKSHOP ANNOUNCEMENT

MIT will host a workshop on Data and File Transfer, Friday, April 14 and Saturday, April 15, 1972. People have expressed an interest in revising the existing ARPANET Data and File Transfer Protocols (RFC # 264 and RFC # 265), to make them more suitable to fulfill the now better understood ARPANET requirements.

The objective of this workshop is to arrive at a unified convention for ARPANET data and file transfer. It is important that we adequately consider the needs of TIP users, DATACOMPUTER users, remote job entry users, and the major ARPANET service systems.

In addition to the current members of the data and file transfer protocol committee, I have invited a number of interested parties to talk and participate in this workshop. On the first day's agenda is a list of speakers who have agreed to discuss their respective interests in data and file transfer. If your interests have not been represented and you would like to give a presentation or discuss a specific area, please contact me (617-864-6900 Ext. 1428).

Participants are encouraged to have written position papers ready at the time of this meeting. If possible, these papers should be distributed as NWG/RFCs or informal notes to workshop invitees, prior to the workshop.

As this meeting is intended to be an intensive workshop, with the second half devoted to a detailed specification of protocol, it will be necessary to limit attendance. The attendance to this meeting is by invitation only. A list of invitees is attached. If you have not been invited, and would like to attend the workshop, please contact me.

Hotel reservations may be made at Random House, operated by MIT's Real Estate office ($5.00 to $7.00/night), by contacting either me or Sue Pitkin (617-864-6900 Ext. 1450) before March 31st. If you would prefer other hotel accomodations instead, a convenient hotel is the Fenway motor Hotel (Tel. 617-492-4777).

Please contact either me or Sue Pitkin if you intend to come.

                              AGENDA

    FRIDAY April 14th, 1972

        8th Floor Conference Room, MIT Project MAC,
        545 Technology Square, Cambridge, Mass.

                      Morning Session -- 9:00 a.m.

    LIST OF SPEAKERS

        Steve Crocker -- ARPA
            Keynote Address and General Discussion

        Richard Winter -- CCA
            The DATACOMPUTER and ARPANET Protocols

        William Crowther -- BBN-NET
            Data and File Transfer to Terminal IMPs

        Robert T. Braden -- UCLA-CCN
            Remote Job Service on ARPANET -- A Server Viewpoint

        John Heafner -- RAND
            Remote Job Service on ARPANET -- A User Viewpoint

                             (LUNCH)

                    Afternoon Session -- 1:30 p.m.

        Ray Tomlinson -- BBN-TENEX
            The TENEX View and Experience With "CPYNET"

        Abhay Bhushan -- MIT-MAC
            Current Data and File Transfer Strategies and
            Some Measurement Results.

GROUP DISCUSSION OF DATA TRANSFER PROTOCOL

     Discuss revision and specific changes to the existing data
transfer protocol (RFC 264). See tentative discussion items for
DTP on page 4. You are expected to have read RFC 264 and be
familiar with it.

GROUP DISCUSSION OF FILE TRANSFER PROTOCOL

     Discuss revision and specific changes to the existing file
transfer protocol (RFC 265). See tentative list of discussion
items on page 4. You are expected to have read RFC 265 and be
familiar with it.

                          AGENDA (Cont.)

SATURDAY April 15, 1972

     8th Floor Conference Room, MIT Project MAC,
     545 Technology Square, Cambridge, Mass.

                    Morning Session -- 9:00 a.m.

WORKING SESSION ON DATA AND FILE TRANSFER PROTOCOLS

     Objective is to come up with revised specifications for data
and file transfer protocols that fulfill current (existing and
anticipated) ARPANET needs. A unified approach is a desirable
goal to strive for.

     Continuation of Friday's discussion of data and file
transfer protocols, incorporating specific ideas and changes in
the existing protocols.

     Possible formation of a sub-committee whose task is to write
the revised specificaitons for DTP and FTP.

                    Afternoon Session -- 1:30 p.m.

                          (TO BE DECIDED)

                    Tentative List of Items for Discussion

    Data Transfer Protocol (DTP)

            - DTP vs TELNET. Concept of extended TELNET, or
                allowing use of ASCII in DTP.

            - Error Control and recovery in DTP (use of
                error checks, restart, etc.)

            - Modes available -- handshake, only one mode, or use
                of default.

            - Information separator, Aborts, and the Use
                of Close (NCP-CLS) to Separate Information.

            - Use of DTP with TIPs

            - Use of DTP with DATACOMPUTER

    File Transfer Protocol (FTP)

            - Use of ICP, inter-mixing data and control,
                transferring files to third connections
                (possibly to different sites)

            - The command language ASCII or codes

            - Handling of data types and physical storage.

            - Handling of descriptors and logical structure

            - Error control and error recovery

            - Use of FTP with TIPs

            - Use of FTP with DATACOMPUTER

            - Uniform Pathnames and the ARPANET virtual file system.

                          List of Invitees

R. T. Braden -- UCLA-CCN , A. Chan -- MIT-DMCG , S. D. Crocker --
ARPA , W. Crowther -- BBN-TIP , E. Harslem -- Rand , J. Heafner
-- Rand , A. McKenzie -- BBN-NET , J. Melvin -- SRI-ARC (NIC) ,
E. Meyer -- MIT-MULTICS , J. Postel -- UCLA-NMC , N. Ryan --
MIT-MULTICS , M. Seriff -- MIT-DMCG , R. Sundberg -- Harvard , R.
Tomlinson -- BBN-TENEX , R. Watson -- SRI-ARC (NIC) , J. White --
UCSB , R. Winter -- CCA

                         Suggested Reading

     It is recommended that prior to the workshop, attendees read
the following papers. This will greatly enhance the success of
the workshop.

        1. The Data Trnasfer Protocol, NWG/RFC # 264

        2. The File Transfer Protocol, NWG/RFC # 265

        3. The Use of "Set Data Type" Transaction in File
           Transfer Protocol, A. Bhushan, NWG/RFC # 294

        4. Using ARPANET Remote Job Entry, E. Harslem, NWG/RFC # 307

        5. NETRJT -- Remote Job Service Protocol for TIPs,
           R. T. Braden, NWG/RFC # 283

        6. Interim NETRJS Specifications, R. T. Braden, NWG/RFC # 189

        7. User's View of the DATACOMPUTER, R. Winter, NWG/RFC # 219

        8. Data Language, CCA, NIC # 8208

        9. A Suggested Addition to File Transfer Protocol,
           A. McKenzie, NWG/RFC # 281

       10. Revision of the Mail Box Protocol, NWG/RFC # 278

       11. Some Experience with File Transfer, H. Brodie,
           NWG/RFC # 269

       12. ARPANET Specifications for UCSB's Simple-Minded
           File System, J. White, NWG/RFC # 122

(In addition please also read any of the position papers
distributed prior to the workshop.)