Socket Number List

This is a second pass at the specification of the socket numbers.
More sockets have been made available for experimental functions,
some new sockets have been assigned for network standard functions,
host specific functions and experimental functions, and the list of
available sockets for server hosts has been updated.

Following are the current assignments for socket numbers used for
public functions. Note that a socket number is a 40 bit quantity,
the first 8 bits being the host specification, the next 24 bits being
site specific, and the last 8 bits being user specified -- these last
8 bits are called the AEN [it stands for, cleverly enough, Another
Eightbit Number].

For the assignments here the value in the host field ranges across al
hosts (unless otherwise specified), the value in the 24 bit field is
zero, and the AEN is indicated here.

General Assignments:

    Sockets   Assignment

    0 - 63   Network Wide Standard Functions
    64 - 127   Host Specific Functions
    128 - 223   Reserved for Future Use
    224 - 255   Any Experimental Function

Particular Assignments:

```
   Socket              Assignment

    1                  Telnet
    3                  File Transfer
    5                  Remote Job Entry
    7                  Echo
    9                  Discard
   11                  Systat or who-is-on function
   13                  Date-Time function
   15                  Netstat or who-is-up function
   19                  Character Generator [e.g. TTYTST]

   65                  Speech Data Base @ 11-tx-2 (74)
   67
   69                  CPYNET
   71                  NETRJS [EBCDIC]
   73                  NETRJS [ASCII]
   75                  NETRJS [TTY]

  241                  NCP Measurement
  243                  Survey Measurement
  245                  LINK
  247                  RSEXEC
  249                  RSEXEC
  251                  RSEXEC
```

The specifications for the assigned functions can be found in the
documents listed here:

```
Telnet                  NIC 7104
File Transfer           NIC 7104
Remote Job Entry        NIC 7104
Echo                    RFC 347
Discard                 RFC 348
Character Generator     RFC 429
Speech Data Base        SUR 37
Datacomputer            [Murray @ CCA]
NCP Measurement         RFC 388
Survey Data             [Kampa @ NMC]
LINK                    [Bressler @ BBN]
RSEXEC                  [Thomas @ BBN]
```

There are several hosts performing public services on sockets which
conflict with the above scheme. We hope we can resolve these
conflicts with a minimum of disruption.

The following is a tabulation of socket numbers together with the
services offered. This listing is presented as an aid to network
users. If you know of a socket function which has been left out or
an entry which should be corrected or deleted please contact:

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3804 Boelter Hall
Computer Science Department
University of California
Los Angeles, CA. 90024

Phone: (213) 825-2368

NIC Ident - JBP

        or

Nancy J. Neigus
Bolt Beranek and Newman
50 Moulton Street
Cambridge, Mass. 02138

Phone: (617) 661-0100

NIC Ident = NJN

We will be pleased to include socket/function information for other
than "official" sockets [e.g. Tip News].

    1   UCLA-NMC

        1   Telnet
        3   File Transfer
        241   NCP Measurement
        243   Survey Data

    2   SRI-ARC

        1   Telnet
        3   File Transfer
        7   Echo
        11   SYSTAT
        13   DATE-TIME
        69   CPYNET

    3   UCSB

        1   Telnet
        5   UCSB RJS [not ARPANET standard]
        7   Echo
        9   Discard

        1793, 1795, 1797, 1799, 1801, 2049 Graphics terminal sockets
        x'701', '703', '705', '707', '709', '801' o'3401', '3403',
        '3405', '3407', '3411', '4001'

        4   UTAH

            1   Telnet
            3   File Transfer
            5   Echo
            7   CPYNET
            9   SYSTAT
            13   DATE-TIME

        6   MIT-Multics

            1   Telnet
            3   File Transfer

        8   SDC-Adept

            1   Telnet

        9   Harvard

            1   Telnet
            3   File Transfer

        10 LL-67

            1   Telnet

        11 SAIL

            1   Telnet
            3   File Transfer

```
        13  CASE

            1       Telnet
            3       File Transfer
            7       Echo
            11      SYSTAT
            13      DATE-TIME
            69      CPYNET


        14  CMU

            1       Telnet
            3       File Transfer


        15  ILLIAC-TENEX

            1       Telnet
            3       File Transfer
            5       Echo
            7       CPYNET
            9       SYSTAT
            13      DATE-TIME


        16  NASA-AMES

            1       Telnet
            3       File Transfer
            5       Sorry Remote Job Entry
            7       Echo
            9       Discard
            241     NCP Measurement


        23  USC-44

            1       Telnet


        31  CCA-TENEX
            1       Telnet
            3       File Transfer
            7       Echo
            11      SYSTAT
            15      NETSTAT
```

        35 UCSD

            1   Telnet

        65 UCLA-CCN

            1   Telnet
            3   File Transfer
            7   Echo
            9   Discard
            71   NETRJS [EBCDIC]
            73   NETRJS [ASCII]
            75   NETRJS [TTY]

        66 SRI-AI

            1   Telnet
            3   File Transfer
            5   Echo
            7   CPYNET
            9   SYSTAT
            11   Sorry NETSAT

        69 BBN-TENEX (a)

            1   Telnet
            3   File Transfer
            7   Echo
            11   SYSTAT
            13   DATE-TIME
            15   NETSTAT
            17   Oneliners
            69   CPYNET
            247 = x'F7' = o'367' TIP RSEXEC Facility

        70 MIT-DMCG

            1   Telnet
            3   File Transfer
            7   Network Status
            9   Discard

     74 LL-TX-2

         1   Telnet

     78 CMU-alt

         1   Telnet
         3   File Transfer

     86 ISI-TENEX

         1   Telnet
         3   File Transfer
         7   Echo
         11   SYSTAT
         13   DATE-TIME
         69   CPYNET

    133 BBN-TENEXB

         1   Telnet
         3   File Transfer
         7   Echo
         11   SYSTAT
         13   DATE-TIME
         15   NETSTAT
         17   Oneliners
         69   CPYNET

    134 MIT-AI

         1   Telnet
         3   File Transfer

    198 MIT-Mathlab

         1   Telnet
         3   File Transfer

User only hosts -- no server sockets

```
        5       NCC
        7       RAND
        12      ILI-ANTS
        19      NBS-ANTS
        32      PARC-MAXC (currently)
        138     LL-TSP
        197     BBN-1D
```