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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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