                       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:

Jon Postel
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
```