

Network Working Group  
Request for Comments: 433  
NIC 13491  
Categories: Socket Numbers  
References: 349

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## Socket Number List

The czar of socket numbers [Jon Postel] has established the following 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 all 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 - 239 | Reserved for Future Use         |
| 240 - 255 | Any Experimental Function       |

### Particular Assignments:

| Socket | Assignment                        |
|--------|-----------------------------------|
| 1      | Telnet                            |
| 3      | File Transfer                     |
| 5      | Remote Job Entry                  |
| 7      | Echo                              |
| 9      | Discard                           |
| 19     | Character Generator [e.g. TTYTST] |
| 65     | Speech Data Base @ ll-tx-2 (74)   |
| 67     | Datacomputer @ cca (31)           |
| 241    | NCP Measurement                   |
| 243    | Survey Measurement                |
| 245    | LINK                              |

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



|                     |                   |
|---------------------|-------------------|
| Telnet              | RFC 318           |
| File Transfer       | RFC 354 & RFC 385 |
| Remote Job Entry    | RFC 407           |
| Echo                | RFC 347           |
| Discard             | RFC 348           |
| Character Generator | RFC 429           |
| Speech Data Base    | SUR 37            |
| Datacomputer        | [Murray @ CCA]    |
| NCP Measurment      | RFC 388           |
| Survey Data         | [Kampe @ NMC]     |
| LINK                | [Bressler @ BBN]  |

It has come to our attention that there are several hosts performing useful public services on sockets which conflict with the above scheme. We hope we can resolve this problem 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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NIC Ident = JBP

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

```
1  UCLA-NMC
   1  Telnet
   241 NCP Measurement
   243 Survey Data
2  SRI-ARC
   1  Telnet
   3  File Transfer
   5  Echo
   7  CPYNET
   9  SYSTAT
  13  DATE-TIME
3  UCSB
   1  Telnet
   5  UCSB RJS [not ARPANET standard]
   7  Echo
   9  Discard
4  UTAH
   1  Telnet
   3  File Transfer
   5  Echo
   7  CPYNET
   9  SYSTAT
  13  DATE-TIME
5  NCC
6  MIT-Multics
   1  Telnet
9  Harvard
   1  Telnet
   3  Sorry File Transfer
10 LL-67
   1  Telnet
11 SAIL
   1  Telnet
   3  File Transfer
12 ILL-ANTS
13 CASE
   1  Telnet
   3  File Transfer
   5  Echo
   7  CPYNET
   9  SYSTAT
  13  DATE-TIME
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
  31    CCA-TENEX
      1    Telnet
      3    File Transfer
      5    Echo
      9    SYSTAT
     11    NETSTAT
  35    UCSD
      1    Telnet
  65    UCLA-CCN
      1    Telnet
      7    Echo
      9    Discard
     11    NETPJS [EBCDIC]
     13    NETRJS [ASCII]
     15    NETRJS [TTY]
  66    SRI-AI
      1    Telnet
      3    DATE-TIME
      5    Echo
      7    CPYNET
      9    SYSTAT
     11    Sorry NETSTAT
  69    BBN-TENEX (a)
      1    Telnet
      3    File Transfer
      5    Echo
      7    CPYNET
      9    SYSTAT
     13    DATE-TIME
     15    NETSTAT
     17    Oneliners
  3604505 = x'370019' = o'15600031'    TIP News
  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
    5  Echo
    7  CPYNET
    9  SYSTAT
   13  DATE-TIME
133  BBN-TENEXB
    1  Telnet
    3  File Transfer
    5  Echo
    7  CPYNET
    9  SYSTAT
   13  DATE-TIME
   15  NETSTAT
   17  Oneliners
134  MIT-AI
    1  Telnet
    3  File Transfer
198  MIT-Mathlab
    1  Telnet
    3  File Transfer
```

Following hosts not tested

```
7    RAND
8    SDC-ADEPT
19   NBS-ANTS
138  LL-TSP
```

[ This RFC was put into machine readable form for entry ]  
[ into the online RFC archives by James Carlson 11/98 ]