

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

Jon Postel (UCLA-NMC)  
Nancy Neigus (BBN)  
22 December 1972

### 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:

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

Phone: (213) 825-2368

NIC Ident = JBP

or

Nancy Neigus  
Bolt Beranek and Newman  
50 Moulton Street  
Cambridge, Mass. 02139

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
  - 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 ]

