

Network Working Group
Request for Comments: 503
NIC: 15747
References: 349, 433

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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 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 - 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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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

