

Network Working Group
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J. Postel
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ASSIGNED NUMBERS

This Network Working Group Request for Comments documents the currently assigned values from several series of numbers used in network protocol implementations. This RFC will be updated periodically, and in any case current information can be obtained from Jon Postel. The assignment of numbers is also handled by Jon. If you are developing a protocol or application that will require the use of a link, socket, etc. please contact Jon to receive a number assignment.

Jon Postel
USC - Information Sciences Institute
4676 Admiralty Way
Marina del Rey, California 90291

phone: (213) 822-1511

ARPANET mail: POSTEL@ISIB

Most of the protocols mentioned here are documented in the RFC series of notes. The more prominent and more generally used are documented in the Protocol Handbook [1] prepared by the Network Information Center (NIC). In the lists that follow a bracketed number, e.g. [1], off to the right of the page indicates a reference to the protocol assigned that number.

ASSIGNED LINK NUMBERS

The word "link" here refers to a field in the original ARPANET Host/IMP interface leader. The link was originally defined as an 8 bit field. Some time after the ARPANET Host-to-Host (AHHP) protocol was defined and, by now, some time ago the definition of this field was changed to "Message-ID" and the length to 12 bits. The name link now refers to the high order 8 bits of this 12 bit message-id field. The low order 4 bits of the message-id field are to be zero unless specifically specified otherwise for the particular protocol used on that link. The Host/IMP interface is defined in BBN report 1822 [2].

Link Assignments:

Decimal	Octal	Description	References
-----	-----	-----	-----
0	0	AHHP Control Messages	[1,3]
1	1	Reserved	
2-71	2-107	AHHP Regular Messages	[1,3]
72-151	110-227	Reserved	
152	230	PARC Universal Protocol	
153	231	TIP Status Reporting	
154	232	TIP Accounting	
155-158	233-236	Internet Protocol	[35,36]
159-191	237-277	Measurements	[28]
192-195	300-303	Message Switching Protocol	[4,5]
196-255	304-377	Experimental Protocols	

ASSIGNED SOCKET NUMBERS

Sockets are used in the AHHP [1,3] to name the ends of logical connections which carry long term conversations. For the purpose of providing services to all callers an Initial Connection Procedure ICP [1,34] is used between the user process and the server process. This list specifies the socket used by the server process as its contact socket.

Socket Assignments:

General Assignments:

Decimal	Octal	Description
-----	-----	-----
0-63	0-77	Network Wide Standard Function
64-127	100-177	Hosts Specific Functions
128-223	200-337	Reserved for Future Use
224-255	340-377	Any Experimental Function

Specific Assignments:

Decimal -----	Octal -----	Description -----	References -----
Network Standard Functions			
1	1	Old Telnet	[6]
3	3	Old File Transfer	[7,8,9]
5	5	Remote Job Entry	[10]
7	7	Echo	[11]
9	11	Discard	[12]
11	13	Who is on or SYSTAT	
13	15	Date and Time	
15	17	Who is up or NETSTAT	
17	21	Short Text Message	
19	23	Character generator or TTYTST	[13]
21	25	New File Transfer	[1,14,15]
23	27	New Telnet	[1,16,17]
25	31	Distributed Programming System	[18,19]
27	33	NSW User System w/COMPASS FE	[20]
29	35	MSG-3 ICP	[21]
31	37	MSG-3 Authentication	[21]
33	41	DPS ICP	[18,19]
35	43	IO Station Spooler	
37	45	Time Server	[22]
39	47	NSW User System w/SRI FE	[20]
Host Specific Functions			
65	101	Speech Data Base at LL-TX-2	[23]
67	103	Datacomputer at CCA	[24]
69	105	CPYNET	
71	107	NETRJS (EBCDIC) at UCLA-CCN	[25]
73	111	NETRJS (ASCII) at UCLA-CCN	[25]
75	113	NETRJS (TTY) at UCLA-CCN	[25]
77	115	any private RJE server	
79	117	Finger	
81	121	Network BSYS	
95	137	SUPDUP	[33]
Experimental Functions			
229	345	Garlick's Debugger	
232-237	350-355	Authorized Mailer at BBN	
239	357	Graphics	[1,26]
241	361	NCP Measurement	[27,28]
243	363	Survey Measurement	[28,29,30]
245	365	LINK	[31]
247	367	TIPSRV	
249-255	371-377	RSEXEC	[31,32]

ASSIGNED NETWORK NUMBERS

This list of network numbers is used in the internetwork protocols now under development, the field is 8 bits in size.

Assigned Network Numbers

Decimal	Octal	Network
-----	-----	-----
0	0	Reserved
1	1	BBN Packet Radio Network
2	2	SF Bay Area Packet Radio Network (1)
3	3	BBN RCC Network
4	4	Atlantic Satellite Network
5	5	Washington D.C. Packet Radio Network
6	6	SF Bay Area Packet Radio Network (2)
7-9	7-11	Not assigned
10	12	ARPANET
11	13	University College London Network
12	14	CYCLADES
13	15	National Physical Laboratory
14	16	TELENET
15	17	British Post Office EPSS
16	20	DATA PAC
17	21	TRANSPAC
18	22	LCS Network
19	23	TYMNET
20-254	24-376	Unassigned
255	377	Reserved

ASSIGNED INTERNET MESSAGE VERSIONS

In the internetwork protocols there is a field to identify the version of the internetwork general protocol. This field is 4 bits in size.

Assigned Internet Message Versions

Decimal	Octal	Version	References
-----	-----	-----	-----
0	0	Old	[35]
1	1	Current	[36]
2-14	2-16	Unassigned	
15	17	Reserved	

ASSIGNED INTERNET MESSAGE FORMATS

In the internetwork protocols there is a field to identify the format of the host level specific protocol. This field is 8 bits in size.

Assigned Internet Message Formats

Decimal	Octal	Format	References
-----	-----	-----	-----
0	0	Reserved	
1	1	raw internet	
2	2	TCP-3	[36]
3	3	DSP	[37,38]
2-254	2-376	Unassigned	
255	377	Reserved	

ASSIGNED INTERNET MESSAGE TYPES

In the internetwork old protocol there is a field to identify the type of the message. This field is 4 bits in size.

Assigned Internet Message Types

Decimal	Octal	Type
-----	-----	----
0	0	Escape
1	1	TCP-2
2	2	Secure
3	3	Gateway
4	4	Measurement
5	5	DSP
6	6	UCL
7-12	7-14	Reserved
13	15	Pluribus
14	16	Telenet
15	17	Xnet

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