**Network Working Group** Request for Comments: 755

IEN: 93

J. Postel **USC-ISI** 3 May 1979

Obsoletes: 750, 739, 604, 503, 433, 349

### **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.

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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 for the listed protocol.

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#### **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 1	AHHP Control Messages Reserved	[1,3]
2-71 72-151	2-107 110-227	AHHP Regular Messages Reserved	[1,3]
152 153	230 231	PARC Universal Protocol TIP Status Reporting	
154 155-158	232 233-236	TIP Accounting Internet Protocol	[35.36.42.43.44]
159-191 192-195	237-277 300-303	Measurements	[35,36,42,43,44] [28] [4,5]
196-255 224-255	304-377 340-377	Message Switching Protocol Experimental Protocols NVP	[1,39]

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#### **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	<b>Octal</b>	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:**

### **Network Standard Functions**

Decimal	<b>Octal</b>	Description	References
1	1	Old Telnet	[6]
∓	∓	Old File Transfer	[7,8,9]
5	5	Remote Job Entry	[1,10]
7	1 3 5 7	Echo	[11]
ģ	<b>11</b>	Discard	[12]
1 3 5 7 9 11	13	Who is on or SYSTAT	[]
13	15	Date and Time	
15	<u>1</u> 7	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	F4 993
37	45	Time Server	[1,22]
39	47	NSW User System w/SRI FE	[20]

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41 42-63	51 52-77	Graphics unassigned	[1,26]		
Host Spec	Host Specific Functions				
Decimal  65 67 69	0ctal  101 103 105	Description Speech Data Base at LL-TX-2 Datacomputer at CCA CPYNET	References [23] [24]		
71 73 75 77	107 111 113 115	NETRJS (EBCDIC) at UCLA-CCN NETRJS (ASCII-68) at UCLA-CCN NETRJS (ASCII-63) at UCLA-CCN any private RJE server	[1,25] [1,25] [1,25]		
79 81 83	117 121 123	Name or Finger Network BSYS MIT ML Device	[1,40]		
85 86-94 95 97 98-127	125 126-136 137 141 142-136	MIT ML Device unassigned SUPDUP Datacomputer Status unassigned	[33]		
Reserved	for Future	e Use			
Decimal  128-223	Octal  200-337	Description  reserved	References		
Experimental Functions					
Decimal  224-231 232-237	Octal  340-347 350-355	Description unassigned Authorized Mailer at BBN	References		
239 241 243 245 247 249-255	357 361 363 365 367 371-377	unassigned NCP Measurement Survey Measurement LINK TIPSRV RSEXEC	[27,28] [28,29,30] [31]		
	J J		[3=,5=]		

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### 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	<b>Octal</b>	Name	Network	References
0	0 1 2 3 4 5 6 7	DDN DD	Reserved	
1	1	BBN-PR	BBN Packet Radio Network	1-4I- (4)
2	2	SF-PR-1	SF Bay Area Packet Radio N	letwork (1)
3	3	BBN-RCC	BBN RCC Network	
4	4	SATNET	Atlantic Satellite Network	
5	5	SILL-PR		
6	6	SF-PR-2		letwork (2)
1 2 3 4 5 6 7 8 9			_CHAOS Network	
8		BBN-SAT-TES		-
	11		Ft. Bragg Packet Radio Net	
10		ARPANET	ARPANET	[1,2]
11	13	UCLNET	University College London	Network
12	14		CYCLADES	
13		NPLNET	National Physical Laborato	ry
14		TELENET	TELENET	
15		EPSS	British Post Office EPSS	
16	20	DATAPAC	DATAPAC	
17	21		TRANSPAC	
18		LCSNET	LCS Network	[37,38]
19		TYMNET	TYMNET	
20	24	DC-PR	Washington D.C. Packet Rad	lio Network
21	25	EDN	DCEC EDN	_
22	26	DIALNET	DIALNET	[47,48]
23	27		MITREK Cable Network	
24		BBN-LOCAL		
25	31	RSRE-PPSN	RSRE / PPSN	
26-254	32-376		Unassigned	
255	377		Reserved	

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### 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	<b>Octal</b>	Version	References
0	0	March 1977 version January 1978 version February 1978 version A February 1978 version B February 1979 version 4	[35]
1	1		[36]
2	2		[42]
3	3		[43]
4	4		[44]
5-14	5-16	Unassigned	
15	17	Reserved	

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## ASSIGNED INTERNET PROTOCOL NUMBERS

In the internet protocol (IN) [44] there is a field to identify the the next level protocol. This field is 8 bits in size. This field is called Protocol in the IN header.

# **Assigned Internet Protocol Numbers**

Decimal	. Octal	Protocol Numbers	References
0	0	Reserved	
1 2 3	1	raw internet datagrams	[44]
2	2 3	TCP-3	[36]
3	3	Gateway-to-Gateway	[49]
4	4	Gateway Monitoring Message	[41]
4 5 6	4 5 6	TCP-3.1	[45]
6	6	TCP-4	[46]
7	7	UCL	
8	10	DSP	[37,38]
	11	Secure	·
10	12	TCP-2	[35]
11-12	13-14	Unassigned	
13	<b>1</b> 5	Pluribus	
14	16	Telenet	
15	17	XNET	
16	20	Chaos	
17	21	UDP	[50]
18	22	Multiplexing	[51]
19-254		Unassigned	
255	377	Reserved	

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### ASSIGNED INTERNET MESSAGE TYPES

In the March 1977 internetwork protocol [35] 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	References
0	0	Raw Internet Packet	[35]
1	1	TCP-2	
2	2	Secure	
3	3	Gateway	[37,38]
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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