Network Working Group Request for Comments: 758

IEN: 117

J. Postel USC-ISI August 1979

Obsoletes RFCs: 755, 750,739, 604, 503, 433, 349 Obsoletes IENs: 93

#### **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 NETWORK NUMBERS**

## **Assigned Network Numbers**

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Decimal	<b>Octal</b>	Name	Network	References
0	0		Reserved	
1	1	BBN-PR	BBN Packet Radio Network	
2	2	SF-PR-1	SF Bay Area Packet Radio	Network (1)
3	3	BBN-RCC	BBN RCC Network	. ,
4	4	SATNET	Atlantic Satellite Networ	k
5	5	SILL-PR	Ft. Sill Packet Radio Net	
6	6	SF-PR-2	SF Bay Area Packet Radio	
7	1 2 3 4 5 6 7	CHAOS	MIT CHAOS Network	ite ework (2)
1 2 3 4 5 6 7 8	10	CLARKNET	SATNET subnet for Clarksb	ura
9	11	BRAGG-PR	Ft. Bragg Packet Radio Ne	
10	12	ARPANET	ARPANET	[1,2]
11	13	UCLNET	University College London	
12	13 14	CYCLADES	CYCLADES	METMOLK
13	15	NPLNET		orv.
13 14	16		National Physical Laborat	or y
		TELENET	TELENET	
15 16	17	EPSS	British Post Office EPSS	
16	20	DATAPAC	DATAPAC	
17	21	TRANSPAC	TRANSPAC	F27 201
18	22	LCSNET	MIT LCS Network	[37,38]
19	23	TYMNET	TYMNET	
20	24	DC-PR	Washington D.C. Packet Ra	dio Network
21	25	EDN	DCEC EDN	F
22	26	DIALNET	DIALNET	[47,48]
23	27	MITRE BBN-LOCAL	MITRE Cablenet	[23]
24	30	BBN-LOCAL	BBN Local Network	
25	31	RSRE-PPSN	RSRE / PPSN	
26	32	<b>AUTODIN-II</b>	AUTODIN II	
27	33	NOSC-LCCN	NOSC / LCCN	
28	34	WIDEBAND	Wide Band Satellite Netwo	rk
29	35	DCN-COMSAT	COMSAT Distributed Comput	ing Network
30	36	DCN-UCL		Network
31	37	BBN-SAT-TES	T BBN SATNET Test Network	
32-254	40-376		Unassigned	
255	377		Reserved	

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## ASSIGNED INTERNET PROTOCOL VERSIONS

In the Internet Protocol (IP) there is a field to identify the version of the internetwork general protocol. This field is 4 bits in size.

**Assigned Internet Protocol Versions** 

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

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## ASSIGNED INTERNET PROTOCOL NUMBERS

In the Internet Protocol (IP) [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 IP header.

## **Assigned Internet Protocol Numbers**

Decimal	l Octal	Protocol Numbers	References
0	0	Reserved	
		raw internet datagrams	[44]
1 2 3 4 5 6 7	1 2 3 4	TCP-3	[36]
3	3	Gateway-to-Gateway	[49]
4	4	Gateway Monitoring Message	[41]
5	5	TCP-3.1	[45]
6	5 6	TCP-4	[46]
7	7	ÜCL	2.03
8	10	DSP	[37,38]
8 9	11	Secure	2- ,2
10	12	TCP-2	[35]
11	13	NVP	[39]
12	14	Unassigned	
13	<b>15</b>	Pluribus	
14	16	Telenet	
15	17	XNET	
16	20	Chaos	
17	21	User Datagram	[50]
18	22	Multiplexing	[51]
19-63	23-77	Unassigned	
64	100	EXPAK cumstats	
65	101	EXPAK PC messages	
66	102	Unassigned	
67	103	Gateway Monitoring	
68	104	Unassigned	
69	105	SIMP monitoring	
70	106	SIMP polling	
71	107	SIMP packet core/U	
	110-114	Unassigned	
77 70	115 116	backroom SIMP polling	
78 79	116 117	backroom SIMP monitoring	
	120-376	SIMP message generators	
255	377	Unassigned Reserved	
255	3//	nesei veu	

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#### ASSIGNED PORT or SOCKET NUMBERS

Ports are used in the TCP [46] and 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 unknown callers a service contact socket is defined. This list specifies the port or socket used by the server process as its contact socket. In the AHHP an Initial Connection Procedure ICP [1,34] is used between the user process and the server process to make the initial contact and establish the long term connections leaving the contact socket free to handle other callers. In the TCP no ICP is necessary since a port may engage in many simultaneous connections.

### **Socket Assignments:**

### **General Assignments:**

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

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# **Specific Assignments:**

## **Network Standard Functions**

Decimal	<b>Octal</b>	Description	References
1 3 5 7 9 11	1 3 5 7	Old Telnet	[6] [7,8,9]
3	3	Old File Transfer	[7,8,9]
5	5	Remote Job Entry	[1,10]
7		Echo	[11]
9	11	Discard	[12]
	13	Who is on or SYSTAT	
13	15	Date and Time	
<b>1</b> 5	17	Who is up or NETSTAT	
<b>17</b>	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	$[18, \overline{19}]$
<b>35</b>	43	IO Station Spooler	[10,10]
37	45	Time Server	[1,22]
39	47	NSW User System w/SRI FE	[20]
41	51	Graphics	[1,26]
42	52	Name Server	[52]
43	53	WhoIs	LJZJ
45	55 55		Le [53]
47-63	57-77	Internet Message Processing Modul unassigned	re [33]

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# **Host Specific Functions**

Decimal	Octal	Description	References	
65	101	unassigned		
67	103	Datacomputer at CCA	[24]	
69	105	CPYNET '		
71	107	NETRJS (EBCDIC) at UCLA-CCN	[1,25]	
73	111	NETRJS (ASCII-68) at UCLA-CCN	[1,25]	
75	113	NETRJS (ASCII-63) at UCLA-CCN	[1,25]	
77	115	any private RJE server		
79	117	Name or Finger	[1,40]	
81	121	Network BSYS		
83	123	MIT ML Device		
85	125	MIT ML Device		
86-94	126-136	unassigned		
95	137	SUPDUP	[33]	
97	141	Datacomputer Status		
98-127	142-136	unassigned		
Reserved for Future Use				

Decimal	<b>Octal</b>	Description	References
128-223	200-337	reserved	

# **Experimental Functions**

Decimal	<b>Octal</b>	Description	References
224-231	340-347	unassigned	
232-237	350-355	Authorized Mailer at BBN	
239 241 243 245 247	357 361 363 365	unassigned NCP Measurement Survey Measurement LINK	[27,28] [28,29,30] [31]
247	367	TIPSRV	[31,32]
249-255	371-377	RSEXEC	

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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	[44]
159-191 192-195	237-277 300-303	Measurements	[28] [4,5]
196-255	304-377	Message Switching Protocol Experimental Protocols	•
224-255	340-377	NVP	[1,39]

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