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Network Working Group Request for Comments: 739

NIC: 42341

J. Postel USC-ISI 11 November 1977

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 to the protocol assigned that number.

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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	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	

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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	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

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Specific Assignments:

Decimal	Octal	Description	References	
Network S	tandard Fu	unctions		
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 Spec	ific Funct	-		
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]	

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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	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	DATAPAC	
17	21	TRANSPAC	
18	22	LCS Network	
19	23	TYMNET	
20-254	24-376	Unassigned	
255	377	Reserved	

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Assigned Numbers

Assigned Internet Message Versions

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	

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Assigned Numbers

Assigned Internet Message Formats

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

Decima	l 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	

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Assigned Numbers

Assigned Internet Message Types

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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