

Port Numbers

0-9

0	TCP UDP	RESERVED
	Technique sometimes used in network programming. More	
1	TCP	TCPMUX - TCP Port Service Multiplexer
	Allows any of multiple TCP services to be contacted by their service name. RFC 1078. More	
	<i>Trojans - Sockets des Troie</i>	
2	TCP	Management Utility
	Formerly used by Compressnet product for compression of TCP WAN traffic.	
3	TCP	Compression Process
	Formerly used by Compressnet product for compression of TCP WAN traffic.	
4	TCP UDP	Unassigned
5	TCP UDP	Remote Job Entry
	Mechanism for executing batch jobs remotely. RFC 407	
6	TCP UDP	Unassigned

7 TCP UDP

Echo

When enabled for debugging purposes, returns to the source any data received. RFC 862

8 TCP UDP

Unassigned

9 TCP UDP

Discard

When enabled for debugging purposes, throws away any data received with no response sent. RFC 863

10-19

- 10

TCP UDP

Unassigned
- 11

TCP

Active Users

Unix TCP `systat`. RFC 866.
- 12

TCP UDP

Unassigned
- 13

TCP UDP

Daytime

RFC 867.
- 14

TCP UDP

Unassigned
- 15

TCP UDP

Unassigned

Unix `netstat`
- 16

TCP UDP

Unassigned
- 17

TCP UDP

Quote of the Day

Unix `qotd`. RFC 865.
- 18

TCP UDP

Message Send Protocol and Remote Write Protocol (RWP)

RFC 1312 and RFC 1756.
- 19

TCP UDP

Character Generator Protocol

RFC 864.

20-29

- 20

TCP

File Transfer - FTP data
- 21

TCP

[File Transfer - FTP control](#)
- 22

TCP

SSH Remote Login Protocol

22	UDP	pcAnywhere
23	TCP	Telnet
24	TCP UDP	private mail systems
25	TCP	Simple Mail Transfer Protocol (SMTP) RFC 821.
26	TCP UDP	Unassigned
27	TCP UDP	ESMTP POP mail service of SLMail.
28	TCP UDP	Unassigned
29	TCP UDP	MSG ICP

30-39

30	TCP UDP	Unassigned
31	TCP UDP	MSG Authentication
32	TCP UDP	Unassigned
33	TCP UDP	Display Support Protocol
34	TCP UDP	Unassigned
35	TCP UDP	private printer servers
36	TCP UDP	Unassigned
37	TCP UDP	Time Protocol RFC 868.
38	TCP UDP	Route Access Protocol (RAP) RFC 1476.
39	UDP	Resource Location Protocol RFC 887.

40-49

40	TCP UDP	Unassigned
41	TCP UDP	Graphics
42	UDP	Host Name Server - Microsoft WINS
43	TCP	WHOIS Also known as NICNAME. RFC 954.
44	TCP	MPM FLAGS Protocol
45	TCP	Message Processing Module (receive)
46	TCP	Message Processing Module (send)
47	TCP UDP	NI FTP
48	TCP UDP	Digital Audit Daemon
49	TCP	Login Host Protocol Also known as TACACS. RFC 927 and RFC 1492.

50-59

50	TCP UDP	Remote Mail Checking Protocol (RMCP) RFC 1339
51	TCP UDP	IMP Logical Address Maintenance

52	TCP UDP	XNS Time Protocol
53	TCP UDP	Domain Name Server (DNS)
54	TCP UDP	XNS Clearinghouse
55	TCP UDP	ISI Graphics Language
56	TCP UDP	XNS Authentication
57	TCP UDP	private terminal access For example, TCP Mail Transfer Protocol (MTP). RFC 772 and RFC 780.
58	TCP UDP	XNS Mail
59	TCP UDP	private file services For example, NFILE. RFC 1037

60-69

60	TCP UDP	Unassigned
61	TCP UDP	NI Mail
62	TCP UDP	ACA Services
63	TCP UDP	Whois and Network Information Lookup Service Also known as Whois++. RFC 1834.
64	TCP UDP	Communications Integrator
65	TCP UDP	TACACS Database Service
66	TCP UDP	Oracle SQL*NET
67	TCP UDP	Bootstrap Protocol Server
68	TCP UDP	Bootstrap Protocol Client (BOOTP) RFC 951.
69	TCP UDP	Trivial File Transfer Protocol (TFTP) RFC 906 and RFC 1350.

70-79

70	TCP UDP	Gopher RFC 1436.
71	TCP UDP	Remote Job Service
72	TCP UDP	Remote Job Service
73	TCP UDP	Remote Job Service
74	TCP UDP	Remote Job Service
75	TCP UDP	private dial-out services
76	TCP UDP	Distributed External Object Store
77	TCP UDP	private remote job execution services
78	TCP UDP	Vettcp Service
79	TCP UDP	Finger User Information Protocol RFC 1288.

80-89

80	TCP	Hypertext Transfer Protocol (HTTP) RFC 2616.
81	TCP UDP	HOSTS2 Name Server
82	TCP UDP	XFER Utility
83	TCP UDP	MIT ML Device
84	TCP UDP	Common Trace Facility
85	TCP UDP	MIT ML Device
86	TCP UDP	Micro Focus COBOL
87	TCP UDP	private terminal links
88	TCP UDP	Kerberos Network Authentication Service

RFC 1510.

89 TCP UDP **SU/MIT Telnet Gateway**

90-99

90 TCP UDP **DNSIX Securit Attribute Token Map**

91 TCP UDP **MIT Dover Spooler**

92 TCP UDP **Network Printing Protocol**

93 TCP UDP **Device Control Protocol**

94 TCP UDP **Tivoli Object Dispatcher**

95 TCP UDP **SUPDUP Display Protocol**

RFC 734.

96 TCP UDP **DIXIE Protocol**

RFC 1249.

97 TCP UDP **Swift Remote Virtual File Protocol**

98 TCP UDP **TAC News**

Unofficially used today by Linux utility `linuxconf`.

99 TCP UDP **Metagram Relay**

100-109

100 TCP UDP

No longer
used

**Network
Information
Center
(NIC)
Hostname
Server**

101 TCP UDP

102 TCP **ISO Transport Service over TCP/IP (ITOT) |**
UDP **Microsoft MTA X.400**
ITOT - RFC 2126

103 TCP **Genesis Point-to-Point Trans Net**
UDP

104 TCP **American College of Radiology - National Electrical**
UDP **Manufacturers Association (ACR-NEMA) Digital**
Imaging and Communications (DICOM)

105 TCP **CCSO Name Server Protocol**
UDP
Computing and Communications Services Office - RFC 2378

105 TCP **Mailbox Name Nameserver**
UDP

106 TCP **poppassd**
UDP
Change passwords on POP mailservers.

107 TCP **Remote Telnet Service**
UDP
RFC 818.

108 TCP **SNA Gateway Access Server**
UDP

109 TCP **Post Office Protocol (POP) Version 2**
UDP
RFC 937.

110-119

110 TCP UDP **Post Office Protocol (POP) Version 3**
RFC 1939.

111 TCP UDP **Sun Remote Procedure Call (Sun RPC)**
RFC 1057 and RFC 1833.

112 TCP UDP **McIDAS Data Transmission Protocol**

113	TCP UDP	Authentication Service (auth) Identification Protocol (ident) Auth - RFC 912. Ident - RFC 1413.
114	TCP UDP	Audio News Multicast
115	TCP UDP	Simple File Transfer Protocol (sftp) RFC 913.
116	TCP UDP	ANSA REX Notify
117	TCP UDP	Unix-to-Unix Copy (UUCP) Path Service RFC 915.
118	TCP UDP	SQL Services
119	TCP UDP	Network News Transfer Protocol RFC 977.

120-129

120	TCP UDP	Coherent File Distribution Protocol (CFDP) RFC 1235.
121	TCP UDP	Encore Expedited Remote Procedure Call
122	TCP UDP	SMAKYNET
123	TCP UDP	Network Time Protocol (NTP) RFC 2030.
124	TCP UDP	ANSA REX Trader
124	UDP	SecurID
125	TCP UDP	Locus PC-Interface Net Map Server
126	TCP UDP	NXEdit
126	TCP UDP	Unisys Unitary Login
127	TCP UDP	Locus PC-Interface Conn Server
128	TCP UDP	GSS X License Verification
129	TCP UDP	Password Generator Protocol (pwdgen) RFC 972.

130-139

130	TCP UDP	Cisco FNATIVE
131	TCP UDP	Cisco TNATIVE
132	TCP UDP	Cisco SYSMANT
133	TCP UDP	Statistics Service (statsrv) RFC 996.
134	TCP UDP	INGRES-NET Service
135	TCP UDP	DCE Endpoint Resolution (locator service / endpoint mapper)
136	TCP UDP	PROFILE Naming System - no longer used
137	TCP UDP	NetBIOS Name Service
138	TCP UDP	NetBIOS Datagram Service
139	TCP UDP	NETBIOS (Session Service) Windows file and printer sharing.

140-149

140	TCP UDP	EMFIS Data Service
141	TCP UDP	EMFIS Control Service
142	TCP UDP	Britton-Lee IDM
143	TCP UDP	Internet Message Access Protocol (IMAP) Mail Server IMAP - RFC 2683.
144	TCP UDP	Universal Management Architecture Sun NeWs
145	TCP UDP	UAAC Protocol
146	TCP UDP	ISO-IP0

147	TCP UDP	ISO-IP
148	TCP UDP	CRONUS-SUPPORT Jargon
149	TCP UDP	AED 512 Emulation Service

150-159

150	TCP UDP	SQL-NET
151	TCP UDP	HEMS
152	TCP UDP	Background File Transfer Program
153	TCP UDP	SGMP Simple Gateway Monitoring Protocol. RFC 1028.
154	TCP UDP	NETSC
155	TCP UDP	NETSC
156	TCP UDP	SQL Service
157	TCP UDP	KNET/VM Command/Message Protocol
158	TCP UDP	PCMail Server
159	TCP UDP	NSS-Routing

160-169

160	TCP UDP	SGMP-TRAPS
161	TCP UDP	SNMP Simple Network Management Protocol
162	TCP UDP	SNMPTRAP
163	TCP UDP	CMIP/TCP Manager
164	TCP UDP	CMIP/TCP Agent
165	TCP UDP	Xerox
166	TCP UDP	Sirius Systems
167	TCP UDP	NAMP
168	TCP UDP	RSVD
169	TCP UDP	SEND

170-179

170	TCP UDP	Network PostScript
171	TCP UDP	Network Innovations Multiplex
172	TCP UDP	Network Innovations CL/1
173	TCP UDP	Xyplex
174	TCP UDP	MAILQ
175	TCP UDP	VMNET
176	TCP UDP	GENRAD-MUX
177	TCP UDP	X Display Manager Control Protocol
178	TCP UDP	NextStep Window Server
179	TCP UDP	Border Gateway Protocol

180-189

180	TCP UDP	Intergraph
181	TCP UDP	Unify
182	TCP UDP	Unisys Audit SITP
183	TCP UDP	OCBinder
184	TCP UDP	OCServer
185	TCP UDP	Remote-KIS
186	TCP UDP	KIS Protocol
187	TCP UDP	Application Communication Interface
188	TCP UDP	Plus Five's MUMPS
189	TCP UDP	Queued File Transport

190-199

190	TCP UDP	Gateway Access Control Protocol
191	TCP UDP	Prospero Directory Service
192	TCP UDP	OSU Network Monitoring System
193	TCP UDP	Spider Remote Monitoring Protocol
194	TCP UDP	Internet Relay Chat Protocol
195	TCP UDP	DNSIX Network Level Module Audit

196	TCP UDP	DNSIX Session Mgt Module Audit Redir
197	TCP UDP	Directory Location Service
198	TCP UDP	Directory Location Service Monitor
199	TCP UDP	SMUX

200-249

200	TCP UDP	IBM System Resource Controller
201	TCP UDP	AppleTalk Routing Maintenance
202	TCP UDP	AppleTalk Name Binding
203	TCP UDP	AppleTalk Unused
204	TCP UDP	AppleTalk Echo
205	TCP UDP	AppleTalk Unused
206	TCP UDP	AppleTalk Zone Information
207	TCP UDP	AppleTalk Unused
208	TCP UDP	AppleTalk Unused
209	TCP UDP	The Quick Mail Transfer Protocol

210-219

210	TCP UDP	ANSI Z39.50
211	TCP UDP	Texas Instruments 914C/G Terminal
212	TCP UDP	ATEXSSTR
213	TCP UDP	IPX
214	TCP UDP	VM PWSCS
215	TCP UDP	Insignia Solutions
216	TCP UDP	Computer Associates International License Server
217	TCP UDP	dBASE Unix
218	TCP UDP	Netix Message Posting Protocol
219	TCP UDP	Unisys ARPs

220-229

220	TCP UDP	Interactive Mail Access Protocol v3
221	TCP UDP	Berkeley rlogind with SPX auth
222	TCP UDP	Berkeley rshd with SPX auth
223	TCP UDP	Certificate Distribution Center
224	TCP UDP	masqdiabler
225-229	TCP UDP	RESERVED

230-239

230-239	TCP UDP	RESERVED
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240-249

240-241	TCP UDP	RESERVED
242	TCP UDP	Direct
243	TCP UDP	Survey Measurement
244	TCP UDP	inbusiness Intel InBusiness
245	TCP UDP	LINK
246	TCP UDP	Display Systems Protocol
247	TCP UDP	SUBNTBCST_TFTP
248	TCP UDP	bhfhs
249	TCP UDP	RESERVED

250-259

250-255	TCP UDP	RESERVED
256	TCP UDP	RAP
257	TCP UDP	Secure Electronic Transaction
258	TCP UDP	Yak Winsock Personal Chat
259	TCP UDP	Efficient Short Remote Operations

260-269

260	TCP UDP	Openport
261	TCP UDP	IIOP Name Service over TLS/SSL
262	TCP UDP	Arcisdms

263	TCP UDP	HDAP
264	TCP UDP	BGMP
265	TCP UDP	X-Bone CTL
266	TCP UDP	SCSI on ST
267	TCP UDP	Tobit David Service Layer
268	TCP UDP	Tobit David Replica
269	TCP UDP	Unassigned

270-279

270-279	TCP UDP	Unassigned
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280-289

280	TCP UDP	http-mgmt
281	TCP UDP	Personal Link
282	TCP UDP	Cable Port A/X
283	TCP UDP	rescap
284	TCP UDP	corerjd
285	TCP UDP	Unassigned
286	TCP UDP	FXP-1
287	TCP UDP	K-BLOCK
288-289	TCP UDP	Unassigned

290-299

290-299	TCP UDP	Unassigned
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300-309

300-307	TCP UDP	Unassigned
308	TCP UDP	Novastor Backup
309	TCP UDP	EntrustTime

310-319

310	TCP UDP	bhmds
311	TCP UDP	AppleShare IP WebAdmin
312	TCP UDP	VSLMP
313	TCP UDP	Magenta Logic
314	TCP UDP	Opalis Robot
315	TCP UDP	DPSI
316	TCP UDP	decAuth
317	TCP UDP	Zannet
318	TCP UDP	PKIX TimeStamp
319	TCP UDP	PTP Event

320-329

320	TCP UDP	PTP General
321	TCP UDP	PIP
322	TCP UDP	RTSPS
323-329	TCP UDP	Unassigned

330-339

330-332	TCP UDP	Unassigned
333	TCP UDP	Texar Security Port
334-339	TCP UDP	Unassigned

340-349

340-343	TCP UDP	Unassigned
344	TCP UDP	Prospero Data Access Protocol
345	TCP UDP	Perf Analysis Workbench
346	TCP UDP	Zebra server
347	TCP UDP	Fatmen Server
348	TCP UDP	Cabletron Management Protocol
349	TCP UDP	mftp

700-739

700-703	TCP UDP	Unassigned
704	TCP UDP	Errlog Copy Server Daemon (elcsd)
705	TCP UDP	AgentX
706	TCP UDP	Secure Internet Live Conferencing (SILC)
See www.silcnet.org for details.		
707	TCP UDP	Borland DSJ
708	TCP UDP	Unassigned
709	TCP UDP	Entrust Key Management Service Handler (kmsh)
710	TCP UDP	Entrust Administration Service Handler (ash)
711	TCP UDP	CISCO Tag Distribution Protocol (TDP)
712-728	TCP UDP	Unassigned
729	TCP UDP	IBM NetView DM/6000 Server/Client
730	TCP UDP	IBM NetView DM/6000 Send/TCP
731	TCP UDP	IBM NetView DM/6000 Receive/TCP
732-739	TCP UDP	Unassigned

740-749

740	TCP UDP	Unassigned
741	TCP UDP	NetGW
742	TCP UDP	Network Revision Control System (netrcs)
743	TCP UDP	Unassigned
744	TCP UDP	Flexible License Manager (FlexLM)
745-746	TCP UDP	Unassigned
747	TCP UDP	Fujitsu Device Control
748	TCP UDP	Russell Information Sciences Calendar Manager
749	TCP UDP	Kerberos Administration

750-759

750	TCP	Rfile / Kerberos
750	UDP	Kerberos / Loadav
751	TCP UDP	Pump
752	TCP UDP	Qrh
753	TCP UDP	Rrh
754	TCP	Heimdal Database Propagation (hprop), Kerberos Server Propagation , Tell
754	UDP	Tell
755-757	TCP UDP	Unassigned
758	TCP UDP	Nlogin
759	TCP UDP	Con

760-769

760	TCP	Kerberos Registration / Ns
760	UDP	Ns
761	TCP	Kerberos Password (kpasswd, kpwd)
761	UDP	Rxe
762	TCP UDP	Quotad
763	TCP UDP	Cycleserv
764	TCP UDP	Omserv

765	TCP UDP	Webster Network Dictionary
766	TCP UDP	Unassigned
767	TCP UDP	Phonebook
768	TCP UDP	Unassigned
769	TCP UDP	Vid

770-779

770	TCP UDP	Cadlock
771	TCP UDP	Rtip
772	TCP UDP	Cycleserv2
773	TCP	Submit
773	UDP	Notify
774	TCP	Rpasswd
774	UDP	Acmaint_dbd
775	TCP	Entomb
775	UDP	Acmaint_transd
776	TCP UDP	Wpages
777	TCP UDP	Multiling HTTP
778-779	TCP UDP	Unassigned

780-799

780	TCP UDP	Wpgs
781	TCP UDP	HP Performance Data - Collector
782	TCP UDP	HP Performance Data - Managed Node
783	TCP UDP	HP Performance Data - Alarm Manager
784-785	TCP UDP	Unassigned
786	TCP UDP	Concert
787	TCP UDP	QSC
788-798	TCP UDP	Unassigned
799	TCP	Remotely Possible (Remote Control)
799	UDP	Unassigned

800-899

800	TCP UDP	MDBS Daemon, Remotely Possible (Remote Control)
801	TCP UDP	Device
802-809	TCP UDP	Unassigned
810	TCP UDP	Flexible Communication Protocol (FCP)
811-827	TCP UDP	Unassigned
828	TCP UDP	ITM-MCELL-S
829	TCP UDP	PKIX-3 CA/RA
830-846	TCP UDP	Unassigned
847	TCP UDP	DHCP Failover 2
848-870	TCP UDP	Unassigned
871	TCP UDP	SUP Server
872	TCP UDP	Unassigned
873	TCP UDP	Rsync
875-885	TCP UDP	Unassigned
876	TCP UDP	ICL coNETion locate server
877	TCP UDP	ICL coNETion server info
888	TCP	AccessBuilder / CD Database
888	UDP	AccessBuilder
889-899	TCP UDP	Unassigned

900-999

900	TCP UDP	OMG Initial Refs
901	TCP	SMPNAMERES / Samba Web Administration Tool (SWAT)
901	UDP	SMPNAMERES
902-910	TCP UDP	Unassigned
911	TCP UDP	XACT-Backup, Dark Shadow (trojan)
912	TCP UDP	APEX Relay-to-Relay Service
913	TCP UDP	APEX Endpoint-to-Relay Service
914-998	TCP UDP	Unassigned
989	TCP UDP	FTP Data Over TLS/SSL

990	TCP UDP	FTP Control Over TLS/SSL
991	TCP UDP	Netnews Administration System
992	TCP UDP	Secure Telnet (over TLS/SSL)
993	TCP UDP	Secure IMAP4 (over TLS/SSL)
994	TCP UDP	Secure IRC (over TLS/SSL)
995	TCP UDP	Secure POP3 (over TLS/SSL)
996	TCP	Vsinet / Central Point Software Xtree License Server
996	UDP	Vsinet
997	TCP UDP	Maitrd
998	TCP	Busboy
998	UDP	Puparp
999	TCP	Garcon / Puprouter / Applix
999	UDP	Puprouter / Applix

1000-1023

1000	TCP	Cadlock / Cadlock2
1000	UDP	Cadlock2 / Ock
1001-1009	TCP UDP	Unassigned
1010	TCP UDP	Surf
1011-1023	TCP UDP	Reserved

1024-49151

TCP and UDP port numbers between 1024 and 49151 are called **registered ports**. The [IANA](#) maintains a listing of services using ports in this range to minimize conflicting uses. Unlike ports with lower numbers, developers of new TCP/UDP services can select a specific number to register with IANA rather than having a number assigned to them. Using registered ports also avoids the additional security restrictions that operating systems place on ports with lower numbers.

49152-65535

TCP and UDP port numbers beginning with 49152 are called **dynamic ports** or **private ports** or **ephemeral ports**. Dynamic ports are not managed by any governing body like [IANA](#) and have no special usage restrictions. Services typically grab one or more random free ports in this range when they need to perform multithreaded socket communications.

49152-65535

TCP and UDP port numbers beginning with 49152 are called **dynamic ports** or **private ports** or **ephemeral ports**. Dynamic ports are not managed by any governing body like [IANA](#) and have no special usage restrictions. Services typically grab one or more random free ports in this range when they need to perform multithreaded socket communications.