

Port Numbers

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PORT NUMBERS

(last updated 19 January 2005)

The port numbers are divided into three ranges: the Well Known Ports, the Registered Ports, and the Dynamic and/or Private Ports.

The Well Known Ports are those from 0 through 1023.

The Registered Ports are those from 1024 through 49151

The Dynamic and/or Private Ports are those from 49152 through 65535

* PLEASE NOTE THE FOLLOWING: *

* *

* 1. UNASSIGNED PORT NUMBERS SHOULD NOT BE USED. THE IANA WILL ASSIGN *

* THE NUMBER FOR THE PORT AFTER YOUR APPLICATION HAS BEEN APPROVED. *

* *

* 2. ASSIGNMENT OF A PORT NUMBER DOES NOT IN ANY WAY IMPLY AN *

* ENDORSEMENT OF AN APPLICATION OR PRODUCT, AND THE FACT THAT NETWORK *

* TRAFFIC IS FLOWING TO OR FROM A REGISTERED PORT DOES NOT MEAN THAT *

* IT IS "GOOD" TRAFFIC. FIREWALL AND SYSTEM ADMINISTRATORS SHOULD *

* CHOOSE HOW TO CONFIGURE THEIR SYSTEMS BASED ON THEIR KNOWLEDGE OF *

* THE TRAFFIC IN QUESTION, NOT WHETHER THERE IS A PORT NUMBER *

* REGISTERED OR NOT. *

WELL KNOWN PORT NUMBERS

The Well Known Ports are assigned by the IANA and on most systems can only be used by system (or root) processes or by programs executed by privileged users.

Ports are used in the TCP [RFC793] to name the ends of logical connections which carry long term conversations. For the purpose of providing services to unknown callers, a service contact port is defined. This list specifies the port used by the server process as its contact port. The contact port is sometimes called the "well-known port".

To the extent possible, these same port assignments are used with the UDP [RFC768].

The range for assigned ports managed by the IANA is 0-1023.

Port Assignments:

Keyword Decimal Description References

0/tcp Reserved

0/udp Reserved

Jon Postel <postel@isi.edu>

tcpmux 1/tcp TCP Port Service Multiplexer

tcpmux 1/udp TCP Port Service Multiplexer

Mark Lottor <MKL@nisc.sri.com>

compressnet 2/tcp Management Utility

compressnet 2/udp Management Utility

compressnet 3/tcp Compression Process

compressnet 3/udp Compression Process

Bernie Volz <volz@cisco.com>

4/tcp Unassigned

4/udp Unassigned

rje 5/tcp Remote Job Entry

rje 5/udp Remote Job Entry

Jon Postel <postel@isi.edu>

6/tcp Unassigned

6/udp Unassigned

echo 7/tcp Echo

echo 7/udp Echo

Jon Postel <postel@isi.edu>

8/tcp Unassigned

8/udp Unassigned

discard 9/tcp Discard

discard 9/udp Discard

Jon Postel <postel@isi.edu>

10/tcp Unassigned

10/udp Unassigned

systat 11/tcp Active Users

systat 11/udp Active Users

Jon Postel <postel@isi.edu>

12/tcp Unassigned

12/udp Unassigned

daytime 13/tcp Daytime (RFC 867)

daytime 13/udp Daytime (RFC 867)

Jon Postel <postel@isi.edu>

14/tcp Unassigned

14/udp Unassigned

15/tcp Unassigned [was netstat]

15/udp Unassigned

16/tcp Unassigned

16/udp Unassigned

qotd 17/tcp Quote of the Day

qotd 17/udp Quote of the Day

Jon Postel <postel@isi.edu>

msp 18/tcp Message Send Protocol
msp 18/udp Message Send Protocol
Rina Nethaniel <---none--->
chargen 19/tcp Character Generator
chargen 19/udp Character Generator
ftp-data 20/tcp File Transfer [Default Data]
ftp-data 20/udp File Transfer [Default Data]
ftp 21/tcp File Transfer [Control]
ftp 21/udp File Transfer [Control]
Jon Postel <postel@isi.edu>
ssh 22/tcp SSH Remote Login Protocol
ssh 22/udp SSH Remote Login Protocol
Tatu Ylonen <ylo@cs.hut.fi>
telnet 23/tcp Telnet
telnet 23/udp Telnet
Jon Postel <postel@isi.edu>
24/tcp any private mail system
24/udp any private mail system
Rick Adams <rick@UUNET.UU.NET>
smtp 25/tcp Simple Mail Transfer
smtp 25/udp Simple Mail Transfer
Jon Postel <postel@isi.edu>
26/tcp Unassigned
26/udp Unassigned
nsw-fe 27/tcp NSW User System FE
nsw-fe 27/udp NSW User System FE
Robert Thomas <BThomas@F.BBN.COM>
28/tcp Unassigned
28/udp Unassigned
msg-icp 29/tcp MSG ICP
msg-icp 29/udp MSG ICP
Robert Thomas <BThomas@F.BBN.COM>
30/tcp Unassigned
30/udp Unassigned
msg-auth 31/tcp MSG Authentication
msg-auth 31/udp MSG Authentication
Robert Thomas <BThomas@F.BBN.COM>
32/tcp Unassigned
32/udp Unassigned
dsp 33/tcp Display Support Protocol
dsp 33/udp Display Support Protocol
Ed Cain <cain@edn-unix.dca.mil>
34/tcp Unassigned
34/udp Unassigned
35/tcp any private printer server
35/udp any private printer server
Jon Postel <postel@isi.edu>
36/tcp Unassigned
36/udp Unassigned
time 37/tcp Time
time 37/udp Time
Jon Postel <postel@isi.edu>
rap 38/tcp Route Access Protocol
rap 38/udp Route Access Protocol

Robert Ullmann <ariel@world.std.com>
rlp 39/tcp Resource Location Protocol
rlp 39/udp Resource Location Protocol
Mike Accetta <MIKE.ACCETTA@CMU-CS-A.EDU>
40/tcp Unassigned
40/udp Unassigned
graphics 41/tcp Graphics
graphics 41/udp Graphics
name 42/tcp Host Name Server
name 42/udp Host Name Server
nameserver 42/tcp Host Name Server
nameserver 42/udp Host Name Server
nickname 43/tcp Who Is
nickname 43/udp Who Is
mpm-flags 44/tcp MPM FLAGS Protocol
mpm-flags 44/udp MPM FLAGS Protocol
mpm 45/tcp Message Processing Module [recv]
mpm 45/udp Message Processing Module [recv]
mpm-snd 46/tcp MPM [default send]
mpm-snd 46/udp MPM [default send]
Jon Postel <postel@isi.edu>
ni-ftp 47/tcp NI FTP
ni-ftp 47/udp NI FTP
Steve Kille <S.Kille@isode.com>
auditd 48/tcp Digital Audit Daemon
auditd 48/udp Digital Audit Daemon
Larry Scott <scott@zk3.dec.com>
tacacs 49/tcp Login Host Protocol (TACACS)
tacacs 49/udp Login Host Protocol (TACACS)
Pieter Ditmars <pditmars@BBN.COM>
re-mail-ck 50/tcp Remote Mail Checking Protocol
re-mail-ck 50/udp Remote Mail Checking Protocol
Steve Dorner <s-dorner@UIUC.EDU>
la-maint 51/tcp IMP Logical Address Maintenance
la-maint 51/udp IMP Logical Address Maintenance
Andy Malis <malis_a@timeplex.com>
xns-time 52/tcp XNS Time Protocol
xns-time 52/udp XNS Time Protocol
Susie Armstrong <Armstrong.wbst128@XEROX>
domain 53/tcp Domain Name Server
domain 53/udp Domain Name Server
Paul Mockapetris <PVM@ISI.EDU>
xns-ch 54/tcp XNS Clearinghouse
xns-ch 54/udp XNS Clearinghouse
Susie Armstrong <Armstrong.wbst128@XEROX>
isi-gl 55/tcp ISI Graphics Language
isi-gl 55/udp ISI Graphics Language
xns-auth 56/tcp XNS Authentication
xns-auth 56/udp XNS Authentication
Susie Armstrong <Armstrong.wbst128@XEROX>
57/tcp any private terminal access
57/udp any private terminal access
Jon Postel <postel@isi.edu>
xns-mail 58/tcp XNS Mail

xns-mail 58/udp XNS Mail
Susie Armstrong <Armstrong.wbst128@XEROX>
59/tcp any private file service
59/udp any private file service
Jon Postel <postel@isi.edu>
60/tcp Unassigned
60/udp Unassigned
ni-mail 61/tcp NI MAIL
ni-mail 61/udp NI MAIL
Steve Kille <S.Kille@isode.com>
acas 62/tcp ACA Services
acas 62/udp ACA Services
E. Wald <ewald@via.enet.dec.com>
whois++ 63/tcp whois++
whois++ 63/udp whois++
Rickard Schoultz <schoultz@sunet.se>
covia 64/tcp Communications Integrator (CI)
covia 64/udp Communications Integrator (CI)
Dan Smith <dan.smith@den.galileo.com>
tacacs-ds 65/tcp TACACS-Database Service
tacacs-ds 65/udp TACACS-Database Service
Kathy Huber <khuber@bbn.com>
sql*net 66/tcp Oracle SQL*NET
sql*net 66/udp Oracle SQL*NET
Jack Haverty <jhaverty@ORACLE.COM>
bootps 67/tcp Bootstrap Protocol Server
bootps 67/udp Bootstrap Protocol Server
bootpc 68/tcp Bootstrap Protocol Client
bootpc 68/udp Bootstrap Protocol Client
Bill Croft <Croft@SUMEX-AIM.STANFORD.EDU>
tftp 69/tcp Trivial File Transfer
tftp 69/udp Trivial File Transfer
David Clark <ddc@LCS.MIT.EDU>
gopher 70/tcp Gopher
gopher 70/udp Gopher
Mark McCahill <mpm@boombox.micro.umn.edu>
netrjs-1 71/tcp Remote Job Service
netrjs-1 71/udp Remote Job Service
netrjs-2 72/tcp Remote Job Service
netrjs-2 72/udp Remote Job Service
netrjs-3 73/tcp Remote Job Service
netrjs-3 73/udp Remote Job Service
netrjs-4 74/tcp Remote Job Service
netrjs-4 74/udp Remote Job Service
Bob Braden <Braden@ISI.EDU>
75/tcp any private dial out service
75/udp any private dial out service
Jon Postel <postel@isi.edu>
deos 76/tcp Distributed External Object Store
deos 76/udp Distributed External Object Store
Robert Ullmann <ariel@world.std.com>
77/tcp any private RJE service
77/udp any private RJE service
Jon Postel <postel@isi.edu>

vettcp 78/tcp vettcp
vettcp 78/udp vettcp
Christopher Leong <leong@kolmod.mlo.dec.com>
finger 79/tcp Finger
finger 79/udp Finger
David Zimmerman <dpz@RUTGERS.EDU>
http 80/tcp World Wide Web HTTP
http 80/udp World Wide Web HTTP
www 80/tcp World Wide Web HTTP
www 80/udp World Wide Web HTTP
www-http 80/tcp World Wide Web HTTP
www-http 80/udp World Wide Web HTTP
Tim Berners-Lee <timbl@W3.org>
hosts2-ns 81/tcp HOSTS2 Name Server
hosts2-ns 81/udp HOSTS2 Name Server
Earl Killian <EAK@MORDOR.S1.GOV>
xfer 82/tcp XFER Utility
xfer 82/udp XFER Utility
Thomas M. Smith <Thomas.M.Smith@lmco.com>
mit-ml-dev 83/tcp MIT ML Device
mit-ml-dev 83/udp MIT ML Device
David Reed <--none-->
ctf 84/tcp Common Trace Facility
ctf 84/udp Common Trace Facility
Hugh Thomas <thomas@oils.enet.dec.com>
mit-ml-dev 85/tcp MIT ML Device
mit-ml-dev 85/udp MIT ML Device
David Reed <--none-->
mfcobol 86/tcp Micro Focus Cobol
mfcobol 86/udp Micro Focus Cobol
Simon Edwards <--none-->
87/tcp any private terminal link
87/udp any private terminal link
Jon Postel <postel@isi.edu>
kerberos 88/tcp Kerberos
kerberos 88/udp Kerberos
B. Clifford Neuman <bcn@isi.edu>
su-mit-tg 89/tcp SU/MIT Telnet Gateway
su-mit-tg 89/udp SU/MIT Telnet Gateway
Mark Crispin <MRC@PANDA.COM>
PORT 90 also being used unofficially by Pointcast #####
dnsix 90/tcp DNSIX Securit Attribute Token Map
dnsix 90/udp DNSIX Securit Attribute Token Map
Charles Watt <watt@sware.com>
mit-dov 91/tcp MIT Dover Spooler
mit-dov 91/udp MIT Dover Spooler
Eliot Moss <EBM@XX.LCS.MIT.EDU>
npp 92/tcp Network Printing Protocol
npp 92/udp Network Printing Protocol
Louis Mamakos <louie@sayshell.umd.edu>
dcp 93/tcp Device Control Protocol
dcp 93/udp Device Control Protocol
Daniel Tappan <Tappan@BBN.COM>
objcall 94/tcp Tivoli Object Dispatcher

objcall 94/udp Tivoli Object Dispatcher
Tom Bereiter <--none--->
supdup 95/tcp SUPDUP
supdup 95/udp SUPDUP
Mark Crispin <MRC@PANDA.COM>
dixie 96/tcp DIXIE Protocol Specification
dixie 96/udp DIXIE Protocol Specification
Tim Howes <Tim.Howes@terminator.cc.umich.edu>
swift-rvf 97/tcp Swift Remote Virtual File Protocol
swift-rvf 97/udp Swift Remote Virtual File Protocol
Maurice R. Turcotte
<mailrus!uflorida!rm1!dnmrt%rmatl@uunet.UU.NET>
tacnews 98/tcp TAC News
tacnews 98/udp TAC News
Jon Postel <postel@isi.edu>
metagram 99/tcp Metagram Relay
metagram 99/udp Metagram Relay
Geoff Goodfellow <Geoff@FERNWOOD.MPK.CA.US>
newacct 100/tcp [unauthorized use]
hostname 101/tcp NIC Host Name Server
hostname 101/udp NIC Host Name Server
Jon Postel <postel@isi.edu>
iso-tsap 102/tcp ISO-TSAP Class 0
iso-tsap 102/udp ISO-TSAP Class 0
Marshall Rose <mrose@dbc.mtview.ca.us>
gppitnp 103/tcp Genesis Point-to-Point Trans Net
gppitnp 103/udp Genesis Point-to-Point Trans Net
acr-nema 104/tcp ACR-NEMA Digital Imag. & Comm. 300
acr-nema 104/udp ACR-NEMA Digital Imag. & Comm. 300
Patrick McNamee <--none--->
cso 105/tcp CCSO name server protocol
cso 105/udp CCSO name server protocol
Martin Hamilton <martin@mrrl.lut.as.uk>
csnet-ns 105/tcp Mailbox Name Nameserver
csnet-ns 105/udp Mailbox Name Nameserver
Marvin Solomon <solomon@CS.WISC.EDU>
3com-tsmux 106/tcp 3COM-TSMUX
3com-tsmux 106/udp 3COM-TSMUX
Jeremy Siegel <jzs@NSD.3Com.COM>
106 Unauthorized use by insecure poppassd protocol
rtelnet 107/tcp Remote Telnet Service
rtelnet 107/udp Remote Telnet Service
Jon Postel <postel@isi.edu>
snagas 108/tcp SNA Gateway Access Server
snagas 108/udp SNA Gateway Access Server
Kevin Murphy <murphy@sevens.lkg.dec.com>
pop2 109/tcp Post Office Protocol - Version 2
pop2 109/udp Post Office Protocol - Version 2
Joyce K. Reynolds <jkrey@isi.edu>
pop3 110/tcp Post Office Protocol - Version 3
pop3 110/udp Post Office Protocol - Version 3
Marshall Rose <mrose@dbc.mtview.ca.us>
sunrpc 111/tcp SUN Remote Procedure Call
sunrpc 111/udp SUN Remote Procedure Call

Chuck McManis <cmcmanis@freegate.net>
mcidas 112/tcp McIDAS Data Transmission Protocol
mcidas 112/udp McIDAS Data Transmission Protocol
Glenn Davis <support@unidata.ucar.edu>
ident 113/tcp
auth 113/tcp Authentication Service
auth 113/udp Authentication Service
Mike St. Johns <stjohns@arpa.mil>
114 Deprecated June 2004
sftp 115/tcp Simple File Transfer Protocol
sftp 115/udp Simple File Transfer Protocol
Mark Lottor <MKL@nisc.sri.com>
ansanotify 116/tcp ANSA REX Notify
ansanotify 116/udp ANSA REX Notify
Nicola J. Howarth <njh@ansa.co.uk>
uucp-path 117/tcp UUCP Path Service
uucp-path 117/udp UUCP Path Service
sqlserv 118/tcp SQL Services
sqlserv 118/udp SQL Services
Larry Barnes <barnes@broke.enet.dec.com>
nntp 119/tcp Network News Transfer Protocol
nntp 119/udp Network News Transfer Protocol
Phil Lapsley <phil@UCBARPA.BERKELEY.EDU>
cfdptkt 120/tcp CFDPTKT
cfdptkt 120/udp CFDPTKT
John Ioannidis <ji@close.cs.columbia.ed>
erpc 121/tcp Encore Expedited Remote Pro.Call
erpc 121/udp Encore Expedited Remote Pro.Call
Jack O'Neil <---none--->
smakynet 122/tcp SMAKYNET
smakynet 122/udp SMAKYNET
Pierre Arnaud <pierre.arnaud@iname.com>
ntp 123/tcp Network Time Protocol
ntp 123/udp Network Time Protocol
Dave Mills <Mills@HUEY.UDEL.EDU>
ansatrader 124/tcp ANSA REX Trader
ansatrader 124/udp ANSA REX Trader
Nicola J. Howarth <njh@ansa.co.uk>
locus-map 125/tcp Locus PC-Interface Net Map Ser
locus-map 125/udp Locus PC-Interface Net Map Ser
Eric Peterson <lcc.eric@SEAS.UCLA.EDU>
nxedit 126/tcp NXEdit
nxedit 126/udp NXEdit
Don Payette <Don.Payette@unisys.com>
#####Port 126 Previously assigned to application below#####
#unitary 126/tcp Unisys Unitary Login
#unitary 126/udp Unisys Unitary Login
<feil@kronos.nisd.cam.unisys.com>
#####Port 126 Previously assigned to application above#####
locus-con 127/tcp Locus PC-Interface Conn Server
locus-con 127/udp Locus PC-Interface Conn Server
Eric Peterson <lcc.eric@SEAS.UCLA.EDU>
gss-xlicen 128/tcp GSS X License Verification
gss-xlicen 128/udp GSS X License Verification

John Light <johnl@gssc.gss.com>
pwdgen 129/tcp Password Generator Protocol
pwdgen 129/udp Password Generator Protocol
Frank J. Wacho <WANCHO@WSMR-SIMTEL20.ARMY.MIL>
cisco-fna 130/tcp cisco FNATIVE
cisco-fna 130/udp cisco FNATIVE
cisco-tna 131/tcp cisco TNATIVE
cisco-tna 131/udp cisco TNATIVE
cisco-sys 132/tcp cisco SYSMaint
cisco-sys 132/udp cisco SYSMaint
statsrv 133/tcp Statistics Service
statsrv 133/udp Statistics Service
Dave Mills <Mills@HUEY.UDEL.EDU>
ingres-net 134/tcp INGRES-NET Service
ingres-net 134/udp INGRES-NET Service
Mike Berrow <---none--->
epmap 135/tcp DCE endpoint resolution
epmap 135/udp DCE endpoint resolution
Joe Pato <pato@apollo.hp.com>
profile 136/tcp PROFILE Naming System
profile 136/udp PROFILE Naming System
Larry Peterson <lp@ARIZONA.EDU>
netbios-ns 137/tcp NETBIOS Name Service
netbios-ns 137/udp NETBIOS Name Service
netbios-dgm 138/tcp NETBIOS Datagram Service
netbios-dgm 138/udp NETBIOS Datagram Service
netbios-ssn 139/tcp NETBIOS Session Service
netbios-ssn 139/udp NETBIOS Session Service
Jon Postel <postel@isi.edu>
emfis-data 140/tcp EMFIS Data Service
emfis-data 140/udp EMFIS Data Service
emfis-cntl 141/tcp EMFIS Control Service
emfis-cntl 141/udp EMFIS Control Service
Gerd Beling <GBELING@ISI.EDU>
bl-idm 142/tcp Britton-Lee IDM
bl-idm 142/udp Britton-Lee IDM
Susie Snitzer <---none--->
imap 143/tcp Internet Message Access Protocol
imap 143/udp Internet Message Access Protocol
Mark Crispin <MRC@CAC.Washington.EDU>
uma 144/tcp Universal Management Architecture
uma 144/udp Universal Management Architecture
Jay Whitney <jw@powercenter.com>
uaac 145/tcp UAAC Protocol
uaac 145/udp UAAC Protocol
David A. Gomberg <gomberg@GATEWAY.MITRE.ORG>
iso-tp0 146/tcp ISO-IP0
iso-tp0 146/udp ISO-IP0
iso-ip 147/tcp ISO-IP
iso-ip 147/udp ISO-IP
Marshall Rose <mrose@dbc.mtview.ca.us>
jargon 148/tcp Jargon
jargon 148/udp Jargon
Bill Weinman <wew@bearnnet.com>

aed-512 149/tcp AED 512 Emulation Service
aed-512 149/udp AED 512 Emulation Service
Albert G. Broscius <broscius@DSL.CIS.UPENN.EDU>
sql-net 150/tcp SQL-NET
sql-net 150/udp SQL-NET
Martin Picard <<---none--->
hems 151/tcp HEMS
hems 151/udp HEMS
bftp 152/tcp Background File Transfer Program
bftp 152/udp Background File Transfer Program
Annette DeSchon <DESCHON@ISI.EDU>
sgmp 153/tcp SGMP
sgmp 153/udp SGMP
Marty Schoffstahl <schoff@NISC.NYSER.NET>
netsc-prod 154/tcp NETSC
netsc-prod 154/udp NETSC
netsc-dev 155/tcp NETSC
netsc-dev 155/udp NETSC
Sergio Heker <heker@JVNCC.CSC.ORG>
sqlsrv 156/tcp SQL Service
sqlsrv 156/udp SQL Service
Craig Rogers <Rogers@ISI.EDU>
knet-cmp 157/tcp KNET/VM Command/Message Protocol
knet-cmp 157/udp KNET/VM Command/Message Protocol
Gary S. Malkin <GMALKIN@XYLOGICS.COM>
pcmail-srv 158/tcp PCMail Server
pcmail-srv 158/udp PCMail Server
Mark L. Lambert <markl@PTT.LCS.MIT.EDU>
nss-routing 159/tcp NSS-Routing
nss-routing 159/udp NSS-Routing
Yakov Rekhter <Yakov@IBM.COM>
sgmp-traps 160/tcp SGMP-TRAPS
sgmp-traps 160/udp SGMP-TRAPS
Marty Schoffstahl <schoff@NISC.NYSER.NET>
snmp 161/tcp SNMP
snmp 161/udp SNMP
snmptrap 162/tcp SNMPTRAP
snmptrap 162/udp SNMPTRAP
Marshall Rose <mrose@dbc.mtview.ca.us>
cmip-man 163/tcp CMIP/TCP Manager
cmip-man 163/udp CMIP/TCP Manager
cmip-agent 164/tcp CMIP/TCP Agent
cmip-agent 164/udp CMIP/TCP Agent
Amatzia Ben-Artzi <---none--->
xns-courier 165/tcp Xerox
xns-courier 165/udp Xerox
Susie Armstrong <Armstrong.wbst128@XEROX.COM>
s-net 166/tcp Sirius Systems
s-net 166/udp Sirius Systems
Brian Lloyd <brian@lloyd.com>
namp 167/tcp NAMP
namp 167/udp NAMP
Marty Schoffstahl <schoff@NISC.NYSER.NET>
rsvd 168/tcp RSVD

rsvd 168/udp RSVD
Neil Todd <mcvax!list.co.uk!neil@UUNET.UU.NET>
send 169/tcp SEND
send 169/udp SEND
William D. Wisner <wisner@HAYES.FAI.ALASKA.EDU>
print-srv 170/tcp Network PostScript
print-srv 170/udp Network PostScript
Brian Reid <reid@DECWRL.DEC.COM>
multiplex 171/tcp Network Innovations Multiplex
multiplex 171/udp Network Innovations Multiplex
cl/1 172/tcp Network Innovations CL/1
cl/1 172/udp Network Innovations CL/1
Kevin DeVault <---none--->
xyplex-mux 173/tcp Xyplex
xyplex-mux 173/udp Xyplex
Bob Stewart <STEWART@XYPLEX.COM>
mailq 174/tcp MAILQ
mailq 174/udp MAILQ
Rayan Zachariassen <rayan@AI.TORONTO.EDU>
vmnet 175/tcp VMNET
vmnet 175/udp VMNET
Christopher Tengi <tengi@Princeton.EDU>
genrad-mux 176/tcp GENRAD-MUX
genrad-mux 176/udp GENRAD-MUX
Ron Thornton <thornton@qm7501.genrad.com>
xdmcp 177/tcp X Display Manager Control Protocol
xdmcp 177/udp X Display Manager Control Protocol
Robert W. Scheifler <RWS@XX.LCS.MIT.EDU>
nextstep 178/tcp NextStep Window Server
nextstep 178/udp NextStep Window Server
Leo Hourvitz <leo@NEXT.COM>
bgp 179/tcp Border Gateway Protocol
bgp 179/udp Border Gateway Protocol
Kirk Lougheed <LOUGHEED@MATHOM.CISCO.COM>
ris 180/tcp Intergraph
ris 180/udp Intergraph
Dave Buehmann <ingr!daveb@UUNET.UU.NET>
unify 181/tcp Unify
unify 181/udp Unify
Mark Ainsley <ianaportmaster@unify.com>
audit 182/tcp Unisys Audit SITP
audit 182/udp Unisys Audit SITP
Gil Greenbaum <gcole@nisd.cam.unisys.com>
ocbinder 183/tcp OCBinder
ocbinder 183/udp OCBinder
ocserver 184/tcp OCServer
ocserver 184/udp OCServer
Jerrilynn Okamura <--none--->
remote-kis 185/tcp Remote-KIS
remote-kis 185/udp Remote-KIS
kis 186/tcp KIS Protocol
kis 186/udp KIS Protocol
Ralph Droms <rdroms@NRI.RESTON.VA.US>
aci 187/tcp Application Communication Interface

aci 187/udp Application Communication Interface
Rick Carlos <rick.ticipa.csc.ti.com>
mumps 188/tcp Plus Five's MUMPS
mumps 188/udp Plus Five's MUMPS
Hokey Stenn <hokey@PLUS5.COM>
qft 189/tcp Queued File Transport
qft 189/udp Queued File Transport
Wayne Schroeder <schroeder@SDS.SDSC.EDU>
gacp 190/tcp Gateway Access Control Protocol
gacp 190/udp Gateway Access Control Protocol
C. Philip Wood <cpw@LANL.GOV>
prospero 191/tcp Prospero Directory Service
prospero 191/udp Prospero Directory Service
B. Clifford Neuman <bcn@isi.edu>
osu-nms 192/tcp OSU Network Monitoring System
osu-nms 192/udp OSU Network Monitoring System
Doug Karl <KARL-D@OSU-20.IRCC.OHIO-STATE.EDU>
srmp 193/tcp Spider Remote Monitoring Protocol
srmp 193/udp Spider Remote Monitoring Protocol
Ted J. Socolofsky <Teds@SPIDER.CO.UK>
irc 194/tcp Internet Relay Chat Protocol
irc 194/udp Internet Relay Chat Protocol
Jarkko Oikarinen <jto@TOLSUN.OULU.FI>
dn6-nlm-aud 195/tcp DNSIX Network Level Module Audit
dn6-nlm-aud 195/udp DNSIX Network Level Module Audit
dn6-smm-red 196/tcp DNSIX Session Mgt Module Audit Redir
dn6-smm-red 196/udp DNSIX Session Mgt Module Audit Redir
Lawrence Lebahn <DIA3@PAXRV-NES.NAVY.MIL>
dls 197/tcp Directory Location Service
dls 197/udp Directory Location Service
dls-mon 198/tcp Directory Location Service Monitor
dls-mon 198/udp Directory Location Service Monitor
Scott Bellew <smb@cs.purdue.edu>
smux 199/tcp SMUX
smux 199/udp SMUX
Marshall Rose <mrose@dbc.mtview.ca.us>
src 200/tcp IBM System Resource Controller
src 200/udp IBM System Resource Controller
Gerald McBrearty <---none--->
at-rtmp 201/tcp AppleTalk Routing Maintenance
at-rtmp 201/udp AppleTalk Routing Maintenance
at-nbp 202/tcp AppleTalk Name Binding
at-nbp 202/udp AppleTalk Name Binding
at-3 203/tcp AppleTalk Unused
at-3 203/udp AppleTalk Unused
at-echo 204/tcp AppleTalk Echo
at-echo 204/udp AppleTalk Echo
at-5 205/tcp AppleTalk Unused
at-5 205/udp AppleTalk Unused
at-zis 206/tcp AppleTalk Zone Information
at-zis 206/udp AppleTalk Zone Information
at-7 207/tcp AppleTalk Unused
at-7 207/udp AppleTalk Unused
at-8 208/tcp AppleTalk Unused

at-8 208/udp AppleTalk Unused
Rob Chandhok <chandhok@gnome.cs.cmu.edu>
qmtpt 209/tcp The Quick Mail Transfer Protocol
qmtpt 209/udp The Quick Mail Transfer Protocol
Dan Bernstein <djb@silvertan.berkeley.edu>
z39.50 210/tcp ANSI Z39.50
z39.50 210/udp ANSI Z39.50
Mark H. Needleman <markn@sirsi.com>
914c/g 211/tcp Texas Instruments 914C/G Terminal
914c/g 211/udp Texas Instruments 914C/G Terminal
Bill Harrell <---none--->
anet 212/tcp ATEXSSTR
anet 212/udp ATEXSSTR
Jim Taylor <taylor@heart.epps.kodak.com>
ipx 213/tcp IPX
ipx 213/udp IPX
Don Provan <donp@xlnvax.novell.com>
vmpwscs 214/tcp VM PWSCS
vmpwscs 214/udp VM PWSCS
Dan Shia <dset!shia@uunet.UU.NET>
softpc 215/tcp Insignia Solutions
softpc 215/udp Insignia Solutions
Martyn Thomas <---none--->
CALlic 216/tcp Computer Associates Int'l License Server
CALlic 216/udp Computer Associates Int'l License Server
Chuck Spitz <spich04@cai.com>
dbase 217/tcp dBASE Unix
dbase 217/udp dBASE Unix
Don Gibson
<sequent!aero!twinsun!ashtate.A-T.COM!dong@uunet.UU.NET>
mpp 218/tcp Netix Message Posting Protocol
mpp 218/udp Netix Message Posting Protocol
Shannon Yeh <yeh@netix.com>
uarps 219/tcp Unisys ARPs
uarps 219/udp Unisys ARPs
Ashok Marwaha <---none--->
imap3 220/tcp Interactive Mail Access Protocol v3
imap3 220/udp Interactive Mail Access Protocol v3
James Rice <RICE@SUMEX-AIM.STANFORD.EDU>
fln-spx 221/tcp Berkeley rlogind with SPX auth
fln-spx 221/udp Berkeley rlogind with SPX auth
rsh-spx 222/tcp Berkeley rshd with SPX auth
rsh-spx 222/udp Berkeley rshd with SPX auth
cdc 223/tcp Certificate Distribution Center
cdc 223/udp Certificate Distribution Center
Kannan Alagappan <kannan@sejour.enet.dec.com>
Possible Conflict of Port 222 with "Masqdialer"#####
Contact for Masqdialer is Charles Wright <cpwright@villagenet.com>###
masqdialer 224/tcp masqdialer
masqdialer 224/udp masqdialer
Charles Wright <cpwright@villagenet.com>
225-241 Reserved
Jon Postel <postel@isi.edu>
direct 242/tcp Direct

direct 242/udp Direct
Herb Sutter <HerbS@cntc.com>
sur-meas 243/tcp Survey Measurement
sur-meas 243/udp Survey Measurement
Dave Clark <ddc@LCS.MIT.EDU>
inbusiness 244/tcp inbusiness
inbusiness 244/udp inbusiness
Derrick Hisatake <derrick.i.hisatake@intel.com>
link 245/tcp LINK
link 245/udp LINK
dsp3270 246/tcp Display Systems Protocol
dsp3270 246/udp Display Systems Protocol
Weldon J. Showalter <Gamma@MINTAKA.DCA.MIL>
subntbcst_tftp 247/tcp SUBNTBCST_TFTP
subntbcst_tftp 247/udp SUBNTBCST_TFTP
John Fake <fake@us.ibm.com>
bhfhs 248/tcp bhfhs
bhfhs 248/udp bhfhs
John Kelly <johnk@bellhow.com>
249-255 Reserved
Jon Postel <postel@isi.edu>
rap 256/tcp RAP
rap 256/udp RAP
J.S. Greenfield <greeny@raleigh.ibm.com>
set 257/tcp Secure Electronic Transaction
set 257/udp Secure Electronic Transaction
Donald Eastlake <dee3@torque.pothole.com>
yak-chat 258/tcp Yak Winsock Personal Chat
yak-chat 258/udp Yak Winsock Personal Chat
Brian Bandy <bbandy@swbell.net>
esro-gen 259/tcp Efficient Short Remote Operations
esro-gen 259/udp Efficient Short Remote Operations
Mohsen Banan <mohsen@rostan.neda.com>
openport 260/tcp Openport
openport 260/udp Openport
John Marland <jmarland@dean.openport.com>
nsiiops 261/tcp IIOP Name Service over TLS/SSL
nsiiops 261/udp IIOP Name Service over TLS/SSL
Jeff Stewart <jstewart@netscape.com>
arcisdms 262/tcp Arcisdms
arcisdms 262/udp Arcisdms
Russell Crook (rmc@sni.ca>
hdap 263/tcp HDAP
hdap 263/udp HDAP
Troy Gau <troy@zyxel.com>
bgmp 264/tcp BGMP
bgmp 264/udp BGMP
Dave Thaler <thalerd@eecs.umich.edu>
x-bone-ctl 265/tcp X-Bone CTL
x-bone-ctl 265/udp X-Bone CTL
Joe Touch <touch@isi.edu>
sst 266/tcp SCSI on ST
sst 266/udp SCSI on ST
Donald D. Woelz <don@genroco.com>

td-service 267/tcp Tobit David Service Layer
td-service 267/udp Tobit David Service Layer
td-replica 268/tcp Tobit David Replica
td-replica 268/udp Tobit David Replica
Franz-Josef Leuders <development@tobit.com>
269-279 Unassigned
http-mgmt 280/tcp http-mgmt
http-mgmt 280/udp http-mgmt
Adrian Pell
<PELL_ADRIAN/HP-UnitedKingdom_om6@hplb.hpl.hp.com>
personal-link 281/tcp Personal Link
personal-link 281/udp Personal Link
Dan Cummings <doc@cnr.com>
cableport-ax 282/tcp Cable Port A/X
cableport-ax 282/udp Cable Port A/X
Craig Langfahl <Craig_J_Langfahl@ccm.ch.intel.com>
rescap 283/tcp rescap
rescap 283/udp rescap
Paul Hoffman <phoffman@imc.org>
corerjd 284/tcp corerjd
corerjd 284/udp corerjd
Chris Thornhill <port_contact@cjt.ca>
285 Unassigned
fxp 286/tcp FXP Communication
fxp 286/udp FXP Communication
James Darnall <james_r_darnall@sbcglobal.net>
k-block 287/tcp K-BLOCK
k-block 287/udp K-BLOCK
Simon P Jackson <jacko@kring.co.uk>
288-307 Unassigned
novastorbakcup 308/tcp Novastor Backup
novastorbakcup 308/udp Novastor Backup
Brian Dickman <brian@novastor.com>
entrusttime 309/tcp EntrustTime
entrusttime 309/udp EntrustTime
Peter Whittaker <pww@entrust.com>
bhmds 310/tcp bhmds
bhmds 310/udp bhmds
John Kelly <johnk@bellhow.com>
asip-webadmin 311/tcp AppleShare IP WebAdmin
asip-webadmin 311/udp AppleShare IP WebAdmin
Ann Huang <annhuang@apple.com>
vslmp 312/tcp VSLMP
vslmp 312/udp VSLMP
Gerben Wierda <Gerben_Wierda@RnA.nl>
magenta-logic 313/tcp Magenta Logic
magenta-logic 313/udp Magenta Logic
Karl Rousseau <kr@netfusion.co.uk>
opalis-robot 314/tcp Opalis Robot
opalis-robot 314/udp Opalis Robot
Laurent Domenech, Opalis <ldomenech@opalis.com>
dpsi 315/tcp DPSI
dpsi 315/udp DPSI
Tony Scamurra <Tony@DesktopPaging.com>

decauth 316/tcp decAuth
decauth 316/udp decAuth
Michael Agishtein <misha@unx.dec.com>
zannet 317/tcp Zannet
zannet 317/udp Zannet
Zan Oliphant <zan@accessone.com>
pkix-timestamp 318/tcp PKIX TimeStamp
pkix-timestamp 318/udp PKIX TimeStamp
Robert Zuccherato <robert.zuccherato@entrust.com>
ptp-event 319/tcp PTP Event
ptp-event 319/udp PTP Event
ptp-general 320/tcp PTP General
ptp-general 320/udp PTP General
John Eidson <eidson@hpl.hp.com>
pip 321/tcp PIP
pip 321/udp PIP
Gordon Mohr <gojomo@usa.net>
rtsps 322/tcp RTSPS
rtsps 322/udp RTSPS
Anders Klemets <anderskl@microsoft.com>
323-332 Unassigned
texar 333/tcp Texar Security Port
texar 333/udp Texar Security Port
Eugen Bacic <ebacic@texar.com>
334-343 Unassigned
pdap 344/tcp Prospero Data Access Protocol
pdap 344/udp Prospero Data Access Protocol
B. Clifford Neuman <bcn@isi.edu>
pawserv 345/tcp Perf Analysis Workbench
pawserv 345/udp Perf Analysis Workbench
zserv 346/tcp Zebra server
zserv 346/udp Zebra server
fatserv 347/tcp Fatmen Server
fatserv 347/udp Fatmen Server
csi-sgwp 348/tcp Cabletron Management Protocol
csi-sgwp 348/udp Cabletron Management Protocol
mftp 349/tcp mftp
mftp 349/udp mftp
Dave Feinleib <davefe@microsoft.com>
matip-type-a 350/tcp MATIP Type A
matip-type-a 350/udp MATIP Type A
matip-type-b 351/tcp MATIP Type B
matip-type-b 351/udp MATIP Type B
Alain Robert <arobert@par.sita.int>
The following entry records an unassigned but widespread use
bhoetty 351/tcp bhoetty (added 5/21/97)
bhoetty 351/udp bhoetty
John Kelly <johnk@bellhow.com>
dtag-ste-sb 352/tcp DTAG (assigned long ago)
dtag-ste-sb 352/udp DTAG
Ruediger Wald <wald@ez-darmstadt.telekom.de>
The following entry records an unassigned but widespread use
bhoedap4 352/tcp bhoedap4 (added 5/21/97)
bhoedap4 352/udp bhoedap4

John Kelly <johnk@bellhow.com>
ndsauth 353/tcp NDSAUTH
ndsauth 353/udp NDSAUTH
Jayakumar Ramalingam <jayakumar@novell.com>
bh611 354/tcp bh611
bh611 354/udp bh611
John Kelly <johnk@bellhow.com>
datex-asn 355/tcp DATEX-ASN
datex-asn 355/udp DATEX-ASN
Kenneth Vaughn <kvaughn@mail.viggen.com>
cloanto-net-1 356/tcp Cloanto Net 1
cloanto-net-1 356/udp Cloanto Net 1
Michael Battilana <mcb-iana@cloanto.com>
bhevent 357/tcp bhevent
bhevent 357/udp bhevent
John Kelly <johnk@bellhow.com>
shrinkwrap 358/tcp Shrinkwrap
shrinkwrap 358/udp Shrinkwrap
Bill Simpson <wsimpson@greendragon.com>
nsrmp 359/tcp Network Security Risk Management Protocol
nsrmp 359/udp Network Security Risk Management Protocol
Eric Jacksch <jacksch@tenebris.ca>
scoi2odialog 360/tcp scoi2odialog
scoi2odialog 360/udp scoi2odialog
Keith Petley <keithp@sco.COM>
semantix 361/tcp Semantix
semantix 361/udp Semantix
Semantix <xsSupport@semantix.com>
srssend 362/tcp SRS Send
srssend 362/udp SRS Send
Curt Mayer <curt@emergent.com>
rsvp_tunnel 363/tcp RSVP Tunnel
rsvp_tunnel 363/udp RSVP Tunnel
Andreas Terzis <terzis@cs.ucla.edu>
aurora-cmgr 364/tcp Aurora CMGR
aurora-cmgr 364/udp Aurora CMGR
Philip Budne <budne@auroratech.com>
dtk 365/tcp DTK
dtk 365/udp DTK
Fred Cohen <fc@all.net>
odmr 366/tcp ODMR
odmr 366/udp ODMR
Randall Gellens <randy@qualcomm.com>
mortgageware 367/tcp MortgageWare
mortgageware 367/udp MortgageWare
Ole Hellevik <oleh@interlinq.com>
qbikgdp 368/tcp QbikGDP
qbikgdp 368/udp QbikGDP
Adrien de Croy <adrien@qbik.com>
rpc2portmap 369/tcp rpc2portmap
rpc2portmap 369/udp rpc2portmap
codaaauth2 370/tcp codaaauth2
codaaauth2 370/udp codaaauth2
Robert Watson <robert@cyrus.watson.org>

clearcase 371/tcp Clearcase
clearcase 371/udp Clearcase
Dave LeBlang <leklang@atria.com>
ulistproc 372/tcp ListProcessor
ulistproc 372/udp ListProcessor
Anastasios Kotsikonas <tasos@cs.bu.edu>
legent-1 373/tcp Legent Corporation
legent-1 373/udp Legent Corporation
legent-2 374/tcp Legent Corporation
legent-2 374/udp Legent Corporation
Keith Boyce <---none--->
hassle 375/tcp Hassle
hassle 375/udp Hassle
Reinhard Doelz <doelz@comp.bioz.unibas.ch>
nip 376/tcp Amiga Envoy Network Inquiry Proto
nip 376/udp Amiga Envoy Network Inquiry Proto
Heinz Wrobel <hwrobel@gmx.de>
tnETOS 377/tcp NEC Corporation
tnETOS 377/udp NEC Corporation
dsETOS 378/tcp NEC Corporation
dsETOS 378/udp NEC Corporation
Tomoo Fujita <tf@arc.bs1.fc.nec.co.jp>
is99c 379/tcp TIA/EIA/IS-99 modem client
is99c 379/udp TIA/EIA/IS-99 modem client
is99s 380/tcp TIA/EIA/IS-99 modem server
is99s 380/udp TIA/EIA/IS-99 modem server
Frank Quick <fquick@qualcomm.com>
hp-collector 381/tcp hp performance data collector
hp-collector 381/udp hp performance data collector
hp-managed-node 382/tcp hp performance data managed node
hp-managed-node 382/udp hp performance data managed node
hp-alarm-mgr 383/tcp hp performance data alarm manager
hp-alarm-mgr 383/udp hp performance data alarm manager
Frank Blakely <frankb@hpptc16.rose.hp.com>
arns 384/tcp A Remote Network Server System
arns 384/udp A Remote Network Server System
David Hornsby <djh@munni.OZ.AU>
ibm-app 385/tcp IBM Application
ibm-app 385/udp IBM Application
Lisa Tomita <---none--->
asa 386/tcp ASA Message Router Object Def.
asa 386/udp ASA Message Router Object Def.
Steve Laitinen <laitinen@brutus.aa.ab.com>
aurp 387/tcp Appletalk Update-Based Routing Pro.
aurp 387/udp Appletalk Update-Based Routing Pro.
Chris Ranch <cranch@novell.com>
unidata-ldm 388/tcp Unidata LDM
unidata-ldm 388/udp Unidata LDM
Glenn Davis <support@unidata.ucar.edu>
ldap 389/tcp Lightweight Directory Access Protocol
ldap 389/udp Lightweight Directory Access Protocol
Tim Howes <Tim.Howes@terminator.cc.umich.edu>
uis 390/tcp UIS
uis 390/udp UIS

Ed Barron <---none--->
synotics-relay 391/tcp SynOptics SNMP Relay Port
synotics-relay 391/udp SynOptics SNMP Relay Port
synotics-broker 392/tcp SynOptics Port Broker Port
synotics-broker 392/udp SynOptics Port Broker Port
Illan Raab <iraab@synoptics.com>
meta5 393/tcp Meta5
meta5 393/udp Meta5
Jim Kanzler <jim.kanzler@meta5.com>
embl-ndt 394/tcp EMBL Nucleic Data Transfer
embl-ndt 394/udp EMBL Nucleic Data Transfer
Peter Gad <peter@bmc.uu.se>
netcp 395/tcp NETscout Control Protocol
netcp 395/udp NETscout Control Protocol
Anil Singhal <---none--->
netware-ip 396/tcp Novell Netware over IP
netware-ip 396/udp Novell Netware over IP
mptn 397/tcp Multi Protocol Trans. Net.
mptn 397/udp Multi Protocol Trans. Net.
Soumitra Sarkar <sarkar@vnet.ibm.com>
kryptolan 398/tcp Kryptolan
kryptolan 398/udp Kryptolan
Peter de Laval <pdl@sectra.se>
iso-tsap-c2 399/tcp ISO Transport Class 2 Non-Control over TCP
iso-tsap-c2 399/udp ISO Transport Class 2 Non-Control over UDP
Yanick Pouffary <pouffary@taec.enet.dec.com>
work-sol 400/tcp Workstation Solutions
work-sol 400/udp Workstation Solutions
Jim Ward <jimw@worksta.com>
ups 401/tcp Uninterruptible Power Supply
ups 401/udp Uninterruptible Power Supply
Charles Bennett <chuck@benatong.com>
genie 402/tcp Genie Protocol
genie 402/udp Genie Protocol
Mark Hankin <---none--->
decap 403/tcp decap
decap 403/udp decap
nced 404/tcp nced
nced 404/udp nced
ncld 405/tcp ncld
ncld 405/udp ncld
Richard Jones <---none--->
imsp 406/tcp Interactive Mail Support Protocol
imsp 406/udp Interactive Mail Support Protocol
John Myers <jgm+@cmu.edu>
timbuktu 407/tcp Timbuktu
timbuktu 407/udp Timbuktu
Marc Epard <marc@netopia.com>
prm-sm 408/tcp Prospero Resource Manager Sys. Man.
prm-sm 408/udp Prospero Resource Manager Sys. Man.
prm-nm 409/tcp Prospero Resource Manager Node Man.
prm-nm 409/udp Prospero Resource Manager Node Man.
B. Clifford Neuman <bcn@isi.edu>
decladebug 410/tcp DECLadebug Remote Debug Protocol

decladebug 410/udp DECLadebug Remote Debug Protocol
Anthony Berent <anthony.berent@reo.mts.dec.com>
rmt 411/tcp Remote MT Protocol
rmt 411/udp Remote MT Protocol
Peter Eriksson <pen@lysator.liu.se>
synoptics-trap 412/tcp Trap Convention Port
synoptics-trap 412/udp Trap Convention Port
Illan Raab <iraab@synoptics.com>
smsp 413/tcp Storage Management Services Protocol
smsp 413/udp Storage Management Services Protocol
Murthy Srinivas <murthy@novell.com>
infoseek 414/tcp InfoSeek
infoseek 414/udp InfoSeek
Steve Kirsch <stk@infoseek.com>
bnet 415/tcp BNet
bnet 415/udp BNet
Jim Mertz <JMertz+RV09@rvdc.unisys.com>
silverplatter 416/tcp Silverplatter
silverplatter 416/udp Silverplatter
Peter Ciuffetti <petec@silverplatter.com>
onmux 417/tcp Onmux
onmux 417/udp Onmux
Stephen Hanna <hanna@world.std.com>
hyper-g 418/tcp Hyper-G
hyper-g 418/udp Hyper-G
Frank Kappe <fkappe@iicm.tu-graz.ac.at>
ariel1 419/tcp Ariel 1
ariel1 419/udp Ariel 1
Joel Karafin <jkarafin@infotrieve.com>
smpte 420/tcp SMPTE
smpte 420/udp SMPTE
Si Becker <71362.22@CompuServe.COM>
ariel2 421/tcp Ariel 2
ariel2 421/udp Ariel 2
ariel3 422/tcp Ariel 3
ariel3 422/udp Ariel 3
Joel Karafin <jkarafin@infotrieve.com>
opc-job-start 423/tcp IBM Operations Planning and Control Start
opc-job-start 423/udp IBM Operations Planning and Control Start
opc-job-track 424/tcp IBM Operations Planning and Control Track
opc-job-track 424/udp IBM Operations Planning and Control Track
Conny Larsson <cocke@VNET.IBM.COM>
icad-el 425/tcp ICAD
icad-el 425/udp ICAD
Larry Stone <lcs@icad.com>
smartsdp 426/tcp smartsdp
smartsdp 426/udp smartsdp
Alexander Dupuy <dupuy@smarts.com>
svrloc 427/tcp Server Location
svrloc 427/udp Server Location
<vezizades@ftp.com>
ocs_cmu 428/tcp OCS_CMU
ocs_cmu 428/udp OCS_CMU
ocs_amu 429/tcp OCS_AMU

ocs_amu 429/udp OCS_AMU
Florence Wyman <wyman@peabody.plk.af.mil>
utmpsd 430/tcp UTMPSD
utmpsd 430/udp UTMPSD
utmpcd 431/tcp UTMPCD
utmpcd 431/udp UTMPCD
iasd 432/tcp IASD
iasd 432/udp IASD
Nir Baroz <nbaroz@encore.com>
nnsp 433/tcp NNSP
nnsp 433/udp NNSP
Rob Robertson <rob@gangrene.berkeley.edu>
mobileip-agent 434/tcp MobileIP-Agent
mobileip-agent 434/udp MobileIP-Agent
mobilip-mn 435/tcp MobilIP-MN
mobilip-mn 435/udp MobilIP-MN
Kannan Alagappan <kannan@sejour.lkg.dec.com>
dna-cml 436/tcp DNA-CML
dna-cml 436/udp DNA-CML
Dan Flowers <flowers@smaug.lkg.dec.com>
comscm 437/tcp comscm
comscm 437/udp comscm
Jim Teague <teague@zso.dec.com>
dsfgw 438/tcp dsfgw
dsfgw 438/udp dsfgw
Andy McKeen <mckeen@osf.org>
dasp 439/tcp dasp Thomas Obermair
dasp 439/udp dasp tommy@inlab.m.eunet.de
Thomas Obermair <tommy@inlab.m.eunet.de>
sgcp 440/tcp sgcp
sgcp 440/udp sgcp
Marshall Rose <mrose@dbc.mtview.ca.us>
decvms-sysmgt 441/tcp decvms-sysmgt
decvms-sysmgt 441/udp decvms-sysmgt
Lee Barton <barton@star.enet.dec.com>
cvc_hostd 442/tcp cvc_hostd
cvc_hostd 442/udp cvc_hostd
Bill Davidson <billd@equalizer.cray.com>
https 443/tcp http protocol over TLS/SSL
https 443/udp http protocol over TLS/SSL
Kipp E.B. Hickman <kipp@mcom.com>
snpp 444/tcp Simple Network Paging Protocol
snpp 444/udp Simple Network Paging Protocol
[RFC1568]
microsoft-ds 445/tcp Microsoft-DS
microsoft-ds 445/udp Microsoft-DS
Pradeep Bahl <pradeepb@microsoft.com>
ddm-rdb 446/tcp DDM-Remote Relational Database Access
ddm-rdb 446/udp DDM-Remote Relational Database Access
ddm-dfm 447/tcp DDM-Distributed File Management
ddm-dfm 447/udp DDM-Distributed File Management
Steven Ritland <srr@us.ibm.com>
ddm-ssl 448/tcp DDM-Remote DB Access Using Secure Sockets
ddm-ssl 448/udp DDM-Remote DB Access Using Secure Sockets

Steven Ritland <srr@us.ibm.com>
as-servermap 449/tcp AS Server Mapper
as-servermap 449/udp AS Server Mapper
Barbara Foss <BGFOSS@rchvmv.vnet.ibm.com>
tserver 450/tcp Computer Supported Telecommunication Applications
tserver 450/udp Computer Supported Telecommunication Applications
Harvey S. Schultz <harvey@acm.org>
sfs-smp-net 451/tcp Cray Network Semaphore server
sfs-smp-net 451/udp Cray Network Semaphore server
sfs-config 452/tcp Cray SFS config server
sfs-config 452/udp Cray SFS config server
Walter Poxon <wdp@ironwood.cray.com>
creativeserver 453/tcp CreativeServer
creativeserver 453/udp CreativeServer
contentserver 454/tcp ContentServer
contentserver 454/udp ContentServer
creativepartnr 455/tcp CreativePartnr
creativepartnr 455/udp CreativePartnr
Jesus Ortiz <jesus_ortiz@emotion.com>
macon-tcp 456/tcp macon-tcp
macon-udp 456/udp macon-udp
Yoshinobu Inoue
<shin@hodaka.mfd.cs.fujitsu.co.jp>
scohelp 457/tcp scohelp
scohelp 457/udp scohelp
Faith Zack <faithz@sco.com>
appleqtc 458/tcp apple quick time
appleqtc 458/udp apple quick time
Murali Ranganathan
<murali_ranganathan@quickmail.apple.com>
ampr-rcmd 459/tcp ampr-rcmd
ampr-rcmd 459/udp ampr-rcmd
Rob Janssen <rob@sys3.pe1chl.ampr.org>
skronk 460/tcp skronk
skronk 460/udp skronk
Henry Strickland <strick@yak.net>
datasurfsrv 461/tcp DataRampSrv
datasurfsrv 461/udp DataR