

# IP Port Numbers - Full Listing

## PORT NUMBERS

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

## WELL KNOWN PORT NUMBERS

The Well Known Ports are controlled and 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 assigned ports use a small portion of the possible port numbers. For many years the assigned ports were in the range 0-255. Recently, the range for assigned ports managed by the IANA has been expanded to the range 0-1023.

## Port Assignments:

Keyword	Decimal	Description	References
-----	-----	-----	-----
	0/tcp	Reserved	
	0/udp	Reserved	
#		Jon Postel <tpostel@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@PROCESS.COM>	
#	4/tcp	Unassigned	
#	4/udp	Unassigned	

rje	5/tcp	Remote Job Entry
rje	5/udp	Remote Job Entry
#		Jon Postel <ltpostal@isi.edu>
#	6/tcp	Unassigned
#	6/udp	Unassigned
echo	7/tcp	Echo
echo	7/udp	Echo
#		Jon Postel <ltpostal@isi.edu>
#	8/tcp	Unassigned
#	8/udp	Unassigned
discard	9/tcp	Discard
discard	9/udp	Discard
#		Jon Postel <ltpostal@isi.edu>
#	10/tcp	Unassigned
#	10/udp	Unassigned
systat	11/tcp	Active Users
systat	11/udp	Active Users
#		Jon Postel <ltpostal@isi.edu>
#	12/tcp	Unassigned
#	12/udp	Unassigned
daytime	13/tcp	Daytime
daytime	13/udp	Daytime
#		Jon Postel <ltpostal@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 <ltpostal@isi.edu>
msp	18/tcp	Message Send Protocol
msp	18/udp	Message Send Protocol
#		Rina Nathaniel <lt---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 <ltpostal@isi.edu>
ssh	22/tcp	SSH Remote Login Protocol
ssh	22/udp	SSH Remote Login Protocol
#		Tatu Ylonen <lttylo@cs.hut.fi>
telnet	23/tcp	Telnet
telnet	23/udp	Telnet
#		Jon Postel <ltpostal@isi.edu>
	24/tcp	any private mail system
	24/udp	any private mail system
#		Rick Adams <lttrick@UUNET.UU.NET>
smtp	25/tcp	Simple Mail Transfer
smtp	25/udp	Simple Mail Transfer
#		Jon Postel <ltpostal@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 <tcain@edn-unix.dca.mil>
#	34/tcp	Unassigned
#	34/udp	Unassigned
	35/tcp	any private printer server
	35/udp	any private printer server
#		Jon Postel <tpostel@isi.edu>
#	36/tcp	Unassigned
#	36/udp	Unassigned
time	37/tcp	Time
time	37/udp	Time
#		Jon Postel <tpostel@isi.edu>
rap	38/tcp	Route Access Protocol
rap	38/udp	Route Access Protocol
#		Robert Ullmann <tariel@world.std.com>
rlp	39/tcp	Resource Location Protocol
rlp	39/udp	Resource Location Protocol
#		Mike Accetta <MIKE.ACETTA@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 <tpostel@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 <tpditmars@BBN.COM>
re-mail-ck	50/tcp	Remote Mail Checking Protocol
re-mail-ck	50/udp	Remote Mail Checking Protocol
#		Steve Dorner <ts-dorner@UIUC.EDU>
la-maint	51/tcp	IMP Logical Address Maintenance
la-maint	51/udp	IMP Logical Address Maintenance
#		Andy Malis <tmalis_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 <tpostel@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 <tpostel@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 <tewald@via.enet.dec.com>
whois++	63/tcp	whois++
whois++	63/udp	whois++
#		Rickard Schoultz <tschoultz@sunet.se>
covia	64/tcp	Communications Integrator (CI)
covia	64/udp	Communications Integrator (CI)
#		"Tundra" Tim Daneliuk
#		<ttundraix!tundra@clout.chi.il.us>
tacacs-ds	65/tcp	TACACS-Database Service
tacacs-ds	65/udp	TACACS-Database Service
#		Kathy Huber <tkhuber@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 <tdc@LCS.MIT.EDU>
gopher	70/tcp	Gopher
gopher	70/udp	Gopher
#		Mark McCahill <mtmpm@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 <tariel@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
		<tleong@kolmod.mlo.dec.com>
finger	79/tcp	Finger
finger	79/udp	Finger
#		David Zimmerman <tdpz@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 <tmsmith@esc.syr.ge.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 <tpostel@isi.edu>
kerberos	88/tcp	Kerberos
kerberos	88/udp	Kerberos
#		B. Clifford Neuman <tbcn@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>
dnsix	90/tcp	DNSIX Securit Attribute Token Map
dnsix	90/udp	DNSIX Securit Attribute Token Map
#		Charles Watt <twatt@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 <tlouie@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
#		<mailto:rus!uflorida!rml!dnmrt%rmatl@uunet.UU.NET>
tacnews	98/tcp	TAC News
tacnews	98/udp	TAC News
#		Jon Postel <tpostel@isi.edu>
metagram	99/tcp	Metagram Relay
metagram	99/udp	Metagram Relay
#		Geoff Goodfellow <Geoff@FERNWOOD.MPK.CA.U>
newacct	100/tcp	[unauthorized use]
hostname	101/tcp	NIC Host Name Server
hostname	101/udp	NIC Host Name Server
#		Jon Postel <tpostel@isi.edu>
iso-tsap	102/tcp	ISO-TSAP Class 0
iso-tsap	102/udp	ISO-TSAP Class 0
#		Marshall Rose <tmrose@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 <tmartin@mrrl.lut.as.uk>
csnet-ns	105/tcp	Mailbox Name Nameserver
csnet-ns	105/udp	Mailbox Name Nameserver
#		Marvin Solomon <tsolomon@CS.WISC.EDU>

3com-tsmux	106/tcp	3COM-TSMUX
3com-tsmux	106/udp	3COM-TSMUX
#		Jeremy Siegel <ltjzs@NSD.3Com.COM>
rtelnet	107/tcp	Remote Telnet Service
rtelnet	107/udp	Remote Telnet Service
#		Jon Postel <ltpostal@isi.edu>
snagas	108/tcp	SNA Gateway Access Server
snagas	108/udp	SNA Gateway Access Server
#		Kevin Murphy <ltmurphy@sevens.lkg.dec.com>
pop2	109/tcp	Post Office Protocol - Version 2
pop2	109/udp	Post Office Protocol - Version 2
#		Joyce K. Reynolds <ltjkrey@isi.edu>
pop3	110/tcp	Post Office Protocol - Version 3
pop3	110/udp	Post Office Protocol - Version 3
#		Marshall Rose <ltmrose@dbc.mtview.ca.us>
sunrpc	111/tcp	SUN Remote Procedure Call
sunrpc	111/udp	SUN Remote Procedure Call
#		Chuck McManis <ltcmcmanis@sun.com>
mcidas	112/tcp	McIDAS Data Transmission Protocol
mcidas	112/udp	McIDAS Data Transmission Protocol
#		Glenn Davis <ltdavis@unidata.ucar.edu>
ident	113/tcp	
auth	113/tcp	Authentication Service
auth	113/udp	Authentication Service
#		Mike St. Johns <ltstjohns@arpa.mil>
audionews	114/tcp	Audio News Multicast
audionews	114/udp	Audio News Multicast
#		Martin Forssen <ltmaf@dtek.chalmers.se>
sftp	115/tcp	Simple File Transfer Protocol
sftp	115/udp	Simple File Transfer Protocol
#		Mark Lottor <ltMKL@nisc.sri.com>
ansanotify	116/tcp	ANSA REX Notify
ansanotify	116/udp	ANSA REX Notify
#		Nicola J. Howarth <lttnjh@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 <ltbarnes@broke.enet.dec.com>
nntp	119/tcp	Network News Transfer Protocol
nntp	119/udp	Network News Transfer Protocol
#		Phil Lapsley <ltphil@UCBARPA.BERKELEY.EDU>
cfdpkt	120/tcp	CFDPKT
cfdpkt	120/udp	CFDPKT
#		John Ioannidis <ltji@close.cs.columbia.ed>
erpc	121/tcp	Encore Expedited Remote Pro.Call
erpc	121/udp	Encore Expedited Remote Pro.Call
#		Jack O'Neil <lt---none--->
smakynet	122/tcp	SMAKYNET
smakynet	122/udp	SMAKYNET
#		Mike O'Dowd <ltodowd@ltisun8.epfl.ch>
ntp	123/tcp	Network Time Protocol
ntp	123/udp	Network Time Protocol
#		Dave Mills <ltMills@HUEY.UDEL.EDU>
ansatrader	124/tcp	ANSA REX Trader
ansatrader	124/udp	ANSA REX Trader
#		Nicola J. Howarth <lttnjh@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 <tlcc.eric@SEAS.UCLA.EDU>
unitary	126/tcp	Unisys Unitary Login
unitary	126/udp	Unisys Unitary Login
#		<tfail@kronos.nisd.cam.unisys.com>
locus-con	127/tcp	Locus PC-Interface Conn Server
locus-con	127/udp	Locus PC-Interface Conn Server
#		Eric Peterson <tlcc.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 <TWANCHO@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 <tpato@apollo.hp.com>
profile	136/tcp	PROFILE Naming System
profile	136/udp	PROFILE Naming System
#		Larry Peterson <tlp@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 <tpostel@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>
news	144/tcp	News
news	144/udp	News
#		James Gosling <JAG@SUN.COM>
uaac	145/tcp	UAAC Protocol
uaac	145/udp	UAAC Protocol
#		David A. Gomberg <tgomberg@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 <ltmrose@dbc.mtview.ca.us>
jargon	148/tcp	Jargon
jargon	148/udp	Jargon
#		Bill Weinman <ltwew@bearnnet.com>
aed-512	149/tcp	AED 512 Emulation Service
aed-512	149/udp	AED 512 Emulation Service
#		Albert G. Broscius <ltbroscius@DSL.CIS.UPENN.EDU>
sql-net	150/tcp	SQL-NET
sql-net	150/udp	SQL-NET
#		Martin Picard <&lt;none-->>
hems	151/tcp	HEMS
hems	151/udp	HEMS
#		Christopher Tengi <lttengi@Princeton.EDU>
bftp	152/tcp	Background File Transfer Program
bftp	152/udp	Background File Transfer Program
#		Annette DeSchon <ltDESCHON@ISI.EDU>
sgmp	153/tcp	SGMP
sgmp	153/udp	SGMP
#		Marty Schoffstahl <lttschoff@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 <ltheker@JVNCC.CSC.ORG>
sqlsrv	156/tcp	SQL Service
sqlsrv	156/udp	SQL Service
#		Craig Rogers <ltRogers@ISI.EDU>
knet-cmp	157/tcp	KNET/VM Command/Message Protocol
knet-cmp	157/udp	KNET/VM Command/Message Protocol
#		Gary S. Malkin <ltGMALKIN@XYLOGICS.COM>
pcmail-srv	158/tcp	PCMail Server
pcmail-srv	158/udp	PCMail Server
#		Mark L. Lambert <ltmarkl@PTT.LCS.MIT.EDU>
nss-routing	159/tcp	NSS-Routing
nss-routing	159/udp	NSS-Routing
#		Yakov Rekhter <ltYakov@IBM.COM>
sgmp-traps	160/tcp	SGMP-TRAPS
sgmp-traps	160/udp	SGMP-TRAPS
#		Marty Schoffstahl <lttschoff@NISC.NYSER.NET>
snmp	161/tcp	SNMP
snmp	161/udp	SNMP
snmptrap	162/tcp	SNMPTRAP
snmptrap	162/udp	SNMPTRAP
#		Marshall Rose <ltmrose@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
smip-agent	164/udp	CMIP/TCP Agent
#		Amatzia Ben-Artzi <lt---none-->>
xns-courier	165/tcp	Xerox
xns-courier	165/udp	Xerox
#		Susie Armstrong
		<ltArmstrong.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 <tschoff@NISC.NYSER.NET>
rsvd	168/tcp	RSVD
rsvd	168/udp	RSVD
#		Neil Todd
<ltmcvax!ist.co.uk!neil@UUNET.UU.NET>		
send	169/tcp	SEND
send	169/udp	SEND
#		William D. Wisner <twisner@HAYES.FAI.ALASKA.EDU>
print-srv	170/tcp	Network PostScript
print-srv	170/udp	Network PostScript
#		Brian Reid <treid@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 <lt---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 <trayan@AI.TORONTO.EDU>
vmnet	175/tcp	VMNET
vmnet	175/udp	VMNET
#		Christopher Tengi <ttengi@Princeton.EDU>
genrad-mux	176/tcp	GENRAD-MUX
genrad-mux	176/udp	GENRAD-MUX
#		Ron Thornton <tthornton@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 <tleo@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 <tingr!daveb@UUNET.UU.NET>
unify	181/tcp	Unify
unify	181/udp	Unify
#		Vinod Singh <--none--->
audit	182/tcp	Unisys Audit SITP
audit	182/udp	Unisys Audit SITP
#		Gil Greenbaum <tgcole@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 <ltrdroms@NRI.RESTON.VA.US>
aci	187/tcp	Application Communication Interface
aci	187/udp	Application Communication Interface
#		Rick Carlos <ltrick.ticipa.csc.ti.com>
mumps	188/tcp	Plus Five's MUMPS
mumps	188/udp	Plus Five's MUMPS
#		Hokey Stenn <lthokey@PLUS5.COM>
qft	189/tcp	Queued File Transport
qft	189/udp	Queued File Transport
#		Wayne Schroeder <tschroeder@SDS.SDSC.EDU>
gacp	190/tcp	Gateway Access Control Protocol
cacp	190/udp	Gateway Access Control Protocol
#		C. Philip Wood <tcpw@LANL.GOV>
prospero	191/tcp	Prospero Directory Service
prospero	191/udp	Prospero Directory Service
#		B. Clifford Neuman <tbcn@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 <tjto@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 <tsmb@cs.purdue.edu>
smux	199/tcp	SMUX
smux	199/udp	SMUX
#		Marshall Rose <tmrose@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 <rchandhok@gnome.cs.cmu.edu>
qmtip	209/tcp	The Quick Mail Transfer Protocol
qmtip	209/udp	The Quick Mail Transfer Protocol
#		Dan Bernstein <dtdjb@silverton.berkeley.edu>
z39.50	210/tcp	ANSI Z39.50
z39.50	210/udp	ANSI Z39.50
#		Mark Needleman
#		
<tmhnr%uccmvsa.bitnet@cornell.cit.cornell.edu>		
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 <jttaylor@heart.epps.kodak.com>
ipx	213/tcp	IPX
ipx	213/udp	IPX
#		Don Provan <dtdonp@xlnvax.novell.com>
vmpwscs	214/tcp	VM PWSCS
vmpwscs	214/udp	VM PWSCS
#		Dan Shia <dtdset!shia@uunet.UU.NET>
softpc	215/tcp	Insignia Solutions
softpc	215/udp	Insignia Solutions
#		Martyn Thomas <---none--->
CAIlic	216/tcp	Computer Associates Int'l License Server
CAIlic	216/udp	Computer Associates Int'l License Server
#		Chuck Spitz <ltspich04@cai.com>
dbase	217/tcp	dBASE Unix
dbase	217/udp	dBASE Unix
#		Don Gibson
#		<ltsequent!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 <tyeh@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 <ltRICE@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 <ltkannan@sejour.enet.dec.com>
#	224-241	Reserved
#		Jon Postel <ltpostel@isi.edu>
direct	242/tcp	Direct
direct	242/udp	Direct
#		Herb Sutter <ltHerbS@cntc.com>
sur-meas	243/tcp	Survey Measurement
sur-meas	243/udp	Survey Measurement

#		Dave Clark <ddc@LCS.MIT.EDU>
dayna	244/tcp	Dayna
dayna	244/udp	Dayna
#		Steve Bateman <SBATEMAN@dayna.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>		
#	247-255	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 <dee@cybercash.com>
yak-chat	258/tcp	Yak Winsock Personal Chat
yak-chat	258/udp	Yak Winsock Personal Chat
#		Brian Bandy <brian@yakchat.com>
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>
naming-iiop-ssl	261/tcp	IIOP Naming Service (SSL)
naming-iiop-ssl	261/udp	IIOP Naming Service (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 <ttroy@zyxel.com>
#	264-279	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 <tdoc@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>		
#	283-308	Unassigned
entrusttime	309/tcp	EntrustTime
entrusttime	309/udp	EntrustTime
#		Peter Whittaker <tpww@entrust.com>
#	310-343	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 <ldavefe@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 <tarobert@par.sita.int>
#	352-370	Unassigned
clearcase	371/tcp	Clearcase
clearcase	371/udp	Clearcase
#		Dave LeBlang <tleklang@atria.com>
ulistproc	372/tcp	ListProcessor
ulistproc	372/udp	ListProcessor
#		Anastasios Kotsikonas <lttasos@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 <lt---none--->
hassle	375/tcp	Hassle
hassle	375/udp	Hassle
#		Reinhard Doelz <ldoelz@comp.bioz.unibas.ch>
nip	376/tcp	Amiga Envoy Network Inquiry Proto
nip	376/udp	Amiga Envoy Network Inquiry Proto
#		Heinz Wrobel <lttheinz@iam.com>
#		Dale L. Larson <ltdale@iam.com>
tnETOS	377/tcp	NEC Corporation
tnETOS	377/udp	NEC Corporation
dsETOS	378/tcp	NEC Corporation
dsETOS	378/udp	NEC Corporation
#		Tomoo Fujita <lttf@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 <ltfquick@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 <ltfrankb@hpptc16.rose.hp.com>
arns	384/tcp	A Remote Network Server System
arns	384/udp	A Remote Network Server System
#		David Hornsby <ltdjh@munari.OZ.AU>
ibm-app	385/tcp	IBM Application
ibm-app	385/udp	IBM Application

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# Lisa Tomita <lt---none--->
asa 386/tcp ASA Message Router Object Def.
asa 386/udp ASA Message Router Object Def.
# Steve Laitinen <ltlaitinen@brutus.aa.ab.com>
aurp 387/tcp Appletalk Update-Based Routing Pro.
aurp 387/udp Appletalk Update-Based Routing Pro.
# Chris Ranch <ltcranch@novell.com>
unidata-ldm 388/tcp Unidata LDM Version 4
unidata-ldm 388/udp Unidata LDM Version 4
# Glenn Davis <ltedavis@unidata.ucar.edu>
ldap 389/tcp Lightweight Directory Access Protocol
ldap 389/udp Lightweight Directory Access Protocol
# Tim Howes
<ltTim.Howes@terminator.cc.umich.edu>
uis 390/tcp UIS
uis 390/udp UIS
# Ed Barron <lt---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 <ltiraab@synoptics.com>
dis 393/tcp Data Interpretation System
dis 393/udp Data Interpretation System
# Paul Stevens
<ltpstevens@chinacat.Metaphor.COM>
embl-ndt 394/tcp EMBL Nucleic Data Transfer
embl-ndt 394/udp EMBL Nucleic Data Transfer
# Peter Gad <ltpeter@bmc.uu.se>
netcp 395/tcp NETscout Control Protocol
netcp 395/udp NETscout Control Protocol
# Anil Singhal <lt---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 <lttsarkar@vnet.ibm.com>
kryptolan 398/tcp Kryptolan
kryptolan 398/udp Kryptolan
# Peter de Laval <ltpd@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 TCP
# Yanick Pouffary <ltppouffary@taec.enet.dec.com>
work-sol 400/tcp Workstation Solutions
work-sol 400/udp Workstation Solutions
# Jim Ward <ltjimw@worksta.com>
ups 401/tcp Uninterruptible Power Supply
ups 401/udp Uninterruptible Power Supply
# Charles Bennett <ltchuck@benatong.com>
genie 402/tcp Genie Protocol
genie 402/udp Genie Protocol
# Mark Hankin <lt---none--->
decap 403/tcp decap
decap 403/udp decap
nced 404/tcp nced
nced 404/udp nced
ncld 405/tcp ncld

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ncld	405/udp	ncld
#		Richard Jones <---none--->
imsp	406/tcp	Interactive Mail Support Protocol
imsp	406/udp	Interactive Mail Support Protocol
#		John Myers <tjgm+@cmu.edu>
timbuktu	407/tcp	Timbuktu
timbuktu	407/udp	Timbuktu
#		Marc Epard <ltmarc@waygate.farallon.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 <tbcn@isi.edu>
decladebug	410/tcp	DECLadebug Remote Debug Protocol
decladebug	410/udp	DECLadebug Remote Debug Protocol
#		Anthony Berent
		<ltanthony.berent@reo.mts.dec.com>
rmt	411/tcp	Remote MT Protocol
rmt	411/udp	Remote MT Protocol
#		Peter Eriksson <tpen@lysator.liu.se>
synoptics-trap	412/tcp	Trap Convention Port
synoptics-trap	412/udp	Trap Convention Port
#		Illan Raab <tiraab@synoptics.com>
smssp	413/tcp	SMSP
smssp	413/udp	SMSP
infoseek	414/tcp	InfoSeek
infoseek	414/udp	InfoSeek
#		Steve Kirsch <tstk@infoseek.com>
bnet	415/tcp	BNet
bnet	415/udp	BNet
#		Jim Mertz <ltJMertz+RV09@rvdc.unisys.com>
silverplatter	416/tcp	Silverplatter
silverplatter	416/udp	Silverplatter
#		Peter Ciuffetti <tpetec@silverplatter.com>
onmux	417/tcp	Onmux
onmux	417/udp	Onmux
#		Stephen Hanna <lthanna@world.std.com>
hyper-g	418/tcp	Hyper-G
hyper-g	418/udp	Hyper-G
#		Frank Kappe <tftkappe@iicm.tu-graz.ac.at>
ariel1	419/tcp	Ariel
ariel1	419/udp	Ariel
#		Jonathan Lavigne <ltBL.JPL@RLG.Stanford.EDU>
smpte	420/tcp	SMPTE
smpte	420/udp	SMPTE
#		Si Becker <lt71362.22@CompuServe.COM>
ariel2	421/tcp	Ariel
ariel2	421/udp	Ariel
ariel3	422/tcp	Ariel
ariel3	422/udp	Ariel
#		Jonathan Lavigne
		<ltBL.JPL@RLG.Stanford.EDU>
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 <ltcocke@VNET.IBM.COM>



icad-el	425/tcp	ICAD
icad-el	425/udp	ICAD
#		Larry Stone <ltlcs@icad.com>
smartsdp	426/tcp	smartsdp
smartsdp	426/udp	smartsdp
#		Alexander Dupuy <ldupuy@smarts.com>
svrloc	427/tcp	Server Location
svrloc	427/udp	Server Location
#		<veizades@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 <twyman@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 <tnbaroz@encore.com>
nnsp	433/tcp	NNSP
nnsp	433/udp	NNSP
#		Rob Robertson <rtrob@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
		<tkannan@sejour.lkg.dec.com>
dna-cml	436/tcp	DNA-CML
dna-cml	436/udp	DNA-CML
#		Dan Flowers <tflowers@smaug.lkg.dec.com>
comscm	437/tcp	comscm
comscm	437/udp	comscm
#		Jim Teague <tteague@zso.dec.com>
dsfgw	438/tcp	dsfgw
dsfgw	438/udp	dsfgw
#		Andy McKeen <tmckeen@osf.org>
dasp	439/tcp	dasp Thomas Obermair
dasp	439/udp	dasp tommy@inlab.m.eunet.de
#		Thomas Obermair <ttommy@inlab.m.eunet.de>
sgcp	440/tcp	sgcp
sgcp	440/udp	sgcp
#		Marshall Rose <tmrose@dbc.mtview.ca.us>
decvms-sysmgt	441/tcp	decvms-sysmgt
decvms-sysmgt	441/udp	decvms-sysmgt
#		Lee Barton <lbarton@star.enet.dec.com>
cvc_hostd	442/tcp	cvc_hostd
cvc_hostd	442/udp	cvc_hostd
#		Bill Davidson <tbilld@equalizer.cray.com>
https	443/tcp	https MCom
https	443/udp	https MCom
#		Kipp E.B. Hickman <tkipp@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
#		Arnold Miller <ltarnoldm@microsoft.com>
ddm-rdb	446/tcp	DDM-RDB
ddm-rdb	446/udp	DDM-RDB
ddm-dfm	447/tcp	DDM-RFM
ddm-dfm	447/udp	DDM-RFM
ddm-byte	448/tcp	DDM-BYTE
ddm-byte	448/udp	DDM-BYTE
#		Jan David Fisher <ltjdfisher@VNET.IBM.COM>
as-servermap	449/tcp	AS Server Mapper
as-servermap	449/udp	AS Server Mapper
#		Barbara Foss <ltBGFLOSS@rchvmv.vnet.ibm.com>
tserver	450/tcp	TServer
tserver	450/udp	TServer
#		Harvey S. Schultz <ltthss@mtgzfs3.mt.att.com>
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 <ltwdp@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 <ltjesus_ortiz@emotion.com>
macon-tcp	456/tcp	macon-tcp
macon-udp	456/udp	macon-udp
#		Yoshinobu Inoue
#		<ltshin@hodaka.mfd.cs.fujitsu.co.jp>
scohelp	457/tcp	scohelp
scohelp	457/udp	scohelp
#		Faith Zack <ltfaithz@sco.com>
appleqt	458/tcp	apple quick time
appleqt	458/udp	apple quick time
#		Murali Ranganathan
		<ltmurali_ranganathan@quickmail.apple.com>
ampr-rcmd	459/tcp	ampr-rcmd
ampr-rcmd	459/udp	ampr-rcmd
#		Rob Janssen <ltrob@sys3.pelchl.ampr.org>
skronk	460/tcp	skronk
skronk	460/udp	skronk
#		Henry Strickland <ltstrick@yak.net>
datasurfsrv	461/tcp	DataRampSrv
datasurfsrv	461/udp	DataRampSrv
datasurfsrvsec	462/tcp	DataRampSrvSec
datasurfsrvsec	462/udp	DataRampSrvSec
#		Diane Downie <ltdownie@jibe.MV.COM>
alpes	463/tcp	alpes
alpes	463/udp	alpes
#		Alain Durand <ltAlain.Durand@imag.fr>
kpasswd	464/tcp	kpasswd
kpasswd	464/udp	kpasswd
#		Theodore Ts'o <lttso@MIT.EDU>
ssmtp	465/tcp	ssmtp

ssmtp	465/udp	ssmtp
#		John Hemming <JohnHemming@Mkn.co.uk>
digital-vrc	466/tcp	digital-vrc
digital-vrc	466/udp	digital-vrc
#		Dave Forster <forster@marvin.enet.dec.com>
mylex-mapd	467/tcp	mylex-mapd
mylex-mapd	467/udp	mylex-mapd
#		Gary Lewis <GaryL@hq.mylex.com>
photuris	468/tcp	proturis
photuris	468/udp	proturis
#		Bill Simpson
<Bill.Simpson@um.cc.umich.edu>		
rcp	469/tcp	Radio Control Protocol
rcp	469/udp	Radio Control Protocol
#		Jim Jennings +1-708-538-7241
scx-proxy	470/tcp	scx-proxy
scx-proxy	470/udp	scx-proxy
#		Scott Narveson <tsjn@cray.com>
mondex	471/tcp	Mondex
mondex	471/udp	Mondex
#		Bill Reding <tredingb@nwdt.natwest.co.uk>
ljk-login	472/tcp	ljk-login
ljk-login	472/udp	ljk-login
#		LJK Software, Cambridge, Massachusetts
#		<support@ljk.com>
hybrid-pop	473/tcp	hybrid-pop
hybrid-pop	473/udp	hybrid-pop
#		Rami Rubin <trami@hybrid.com>
tn-tl-w1	474/tcp	tn-tl-w1
tn-tl-w2	474/udp	tn-tl-w2
#		Ed Kress <teskress@thinknet.com>
tcpnethaspsrv	475/tcp	tcpnethaspsrv
tcpnethaspsrv	475/tcp	tcpnethaspsrv
#		Charlie Hava <charlie@aladdin.co.il>
tn-tl-fd1	476/tcp	tn-tl-fd1
tn-tl-fd1	476/udp	tn-tl-fd1
#		Ed Kress <teskress@thinknet.com>
ss7ns	477/tcp	ss7ns
ss7ns	477/udp	ss7ns
#		Jean-Michel URSCH
<tursch@taec.enet.dec.com>		
spsc	478/tcp	spsc
spsc	478/udp	spsc
#		Mike Rieker <mikea@sp32.com>
iafserver	479/tcp	iafserver
iafserver	479/udp	iafserver
iafdbase	480/tcp	iafdbase
iafdbase	480/udp	iafdbase
#		ricky@solect.com <Rick Yazwinski>
ph	481/tcp	Ph service
ph	481/udp	Ph service
#		Roland Hedberg
<Roland.Hedberg@umdac.umu.se>		
bgs-nsi	482/tcp	bgs-nsi
bgs-nsi	482/udp	bgs-nsi
#		Jon Saperia <saperia@bgs.com>
ulpnet	483/tcp	ulpnet

ulpnet	483/udp	ulpnet
#		Kevin Mooney <kevinm@bfs.unibol.com>
integra-sme	484/tcp	Integra Software Management Environment
integra-sme	484/udp	Integra Software Management Environment
#		Randall Dow <rand@randix.m.isr.de>
powerburst	485/tcp	Air Soft Power Burst
powerburst	485/udp	Air Soft Power Burst
#		<tgary@airsoft.com>
avian	486/tcp	avian
avian	486/udp	avian
#		Robert Ullmann
<Robert_Ullmann/CAM/Lotus.LOTUS@crd.lotus.com>		
saft	487/tcp	saft
saft	487/udp	saft
#		Ulli Horlacher <framstag@rus.uni-
stuttgart.de>		
gss-http	488/tcp	gss-http
gss-http	488/udp	gss-http
#		Doug Rosenthal
<rosenth1@krypton.einet.net>		
nest-protocol	489/tcp	nest-protocol
nest-protocol	489/udp	nest-protocol
#		Gil Gameiro <gil_gameiro@novell.com>
micom-pfs	490/tcp	micom-pfs
micom-pfs	490/udp	micom-pfs
#		David Misunas <DMisunas@micom.com>
go-login	491/tcp	go-login
go-login	491/udp	go-login
#		Troy Morrison <ttroy@graphon.com>
ticf-1	492/tcp	Transport Independent Convergence for FNA
ticf-1	492/udp	Transport Independent Convergence for FNA
ticf-2	493/tcp	Transport Independent Convergence for FNA
ticf-2	493/udp	Transport Independent Convergence for FNA
#		Mamoru Ito <Ito@pcnet.ks.pfu.co.jp>
pov-ray	494/tcp	POV-Ray
pov-ray	494/udp	POV-Ray
#		Chris Cason <tcjcason@netspace.net.au>
intecourier	495/tcp	intecourier
intecourier	495/udp	intecourier
#		Steve Favor <tsfavor@tiger.intecom.com>
pim-rp-disc	496/tcp	PIM-RP-DISC
pim-rp-disc	496/udp	PIM-RP-DISC
#		Dino Farinacci <dino@cisco.com>
dantz	497/tcp	dantz
dantz	497/udp	dantz
#		Dotty Yackle <dotty_yackle@dantz.com>
siam	498/tcp	siam
siam	498/udp	siam
#		Philippe Gilbert <pgilbert@cal.fr>
iso-ill	499/tcp	ISO ILL Protocol
iso-ill	499/udp	ISO ILL Protocol
#		Mark H. Needleman
<Mark.Needleman@ucop.edu>		
isakmp	500/tcp	isakmp
isakmp	500/udp	isakmp
#		Mark Schertler <tmjs@tycho.ncsc.mil>

stmf	501/tcp	STMF
stmf	501/udp	STMF
#		Alan Ungar <ltaungar@farradyne.com>
asa-appl-proto	502/tcp	asa-appl-proto
asa-appl-proto	502/udp	asa-appl-proto
#		Dennis Dube <ltddube@modicon.com>
intrinsa	503/tcp	Intrinsa
intrinsa	503/udp	Intrinsa
#		Robert Ford <ltrobert@intrinsa.com>
citadel	504/tcp	citadel
citadel	504/udp	citadel
#		Art Cancro <ltajc@uncnsrd.mt-kisco.ny.us>
mailbox-lm	505/tcp	mailbox-lm
mailbox-lm	505/udp	mailbox-lm
		Beverly Moody <ltBeverly_Moody@stercomm.com>
ohimsrv	506/tcp	ohimsrv
ohimsrv	506/udp	ohimsrv
#		Scott Powell <ltspowell@openhorizon.com>
crs	507/tcp	crs
crs	507/udp	crs
#		Brad Wright <ltbradwr@microsoft.com>
xvttp	508/tcp	xvttp
xvttp	508/udp	xvttp
#		Keith J. Alphonso <ltalphonso@ncs-ssc.com>
snare	509/tcp	snare
snare	509/udp	snare
#		Dennis Batchelder <ltddennis@capres.com>
fcpx	510/tcp	FirstClass Protocol
fcpx	510/udp	FirstClass Protocol
#		Mike Marshburn <ltmike@softarc.com>
mynet	511/tcp	mynet-as
mynet	511/udp	mynet-as
#		John Rainford <ltJAR@cks-
hq.mhs.compuserve.com>		
exec	512/tcp	remote process execution;
#		authentication performed using
#		passwords and UNIX loppgin names
comsat	512/udp	
biff	512/udp	used by mail system to notify users
#		of new mail received; currently
#		receives messages only from
#		processes on the same machine
login	513/tcp	remote login a la telnet;
#		automatic authentication performed
#		based on priviledged port numbers
#		and distributed data bases which
#		identify "authentication domains"
who	513/udp	maintains data bases showing who's
#		logged in to machines on a local
#		net and the load average of the
#		machine
shell	514/tcp	cmd
#		like exec, but automatic authentication
#		is performed as for login server
syslog	514/udp	
printer	515/tcp	spooler
printer	515/udp	spooler

videotex	516/tcp	videotex
videotex	516/udp	videotex
#		Daniel Mavrakis <ltssystem@venus.mctel.fr>
talk	517/tcp	like tenex link, but across
#		machine - unfortunately, doesn't
#		use link protocol (this is actually
#		just a rendezvous port from which a
#		tcp connection is established)
talk	517/udp	like tenex link, but across
#		machine - unfortunately, doesn't
#		use link protocol (this is actually
#		just a rendezvous port from which a
		tcp connection is established)
ntalk	518/tcp	
ntalk	518/udp	
utime	519/tcp	unixtime
utime	519/udp	unixtime
efs	520/tcp	extended file name server
router	520/udp	local routing process (on site);
#		uses variant of Xerox NS routing
#		information protocol
ripng	521/tcp	ripng
ripng	521/udp	ripng
#		Robert E. Minnear <ltminnear@ipsilon.com>
ulp	522/tcp	ULP
ulp	522/udp	ULP
#		Max Morris <ltmaxm@MICROSOFT.com>
ibm-db2	523/tcp	IBM-DB2
ibm-db2	523/tcp	IBM-DB2
#		Peter Pau <ltppau@VNET.IBM.COM>
ncp	524/tcp	NCP
ncp	524/udp	NCP
#		Don Provan <ltndonp@sjf.novell.com>
timed	525/tcp	timeserver
timed	525/udp	timeserver
tempo	526/tcp	newdate
tempo	526/udp	newdate
stx	527/tcp	Stock IXChange
stx	527/udp	Stock IXChange
custix	528/tcp	Customer IXChange
custix	528/udp	Customer IXChange
#		Ralph Hanan <ltRalphH@ixchange.com>
irc-serv	529/tcp	IRC-SERV
irc-serv	529/tcp	IRC-SERV
#		Brian Tackett <ltcym@acrux.net>
courier	530/tcp	rpc
courier	530/udp	rpc
conference	531/tcp	chat
conference	531/udp	chat
netnews	532/tcp	readnews
netnews	532/udp	readnews
netwall	533/tcp	for emergency broadcasts
netwall	533/udp	for emergency broadcasts
mm-admin	534/tcp	MegaMedia Admin
mm-admin	534/udp	MegaMedia Admin
#		Andreas Heidemann <lta.heidemann@ais-
gmbh.de>		

iiop	535/tcp	iiop
iiop	535/udp	iiop
#		Jeff M.Michaud <ltmichaud@zk3.dec.com>
opalis-rdv	536/tcp	opalis-rdv
opalis-rdv	536/udp	opalis-rdv
#		Laurent Domenech <ltlaurent@opalis.com>
nmsp	537/tcp	Networked Media Streaming Protocol
nmsp	537/udp	Networked Media Streaming Protocol
#		Paul Santinelli Jr.
<ltpsantinelli@narrative.com>		
gdomap	538/tcp	gdomap
gdomap	538/udp	gdomap
#		Richard Frith-Macdonald
<lttrichard@brainstorm.co.uk>		
apertus-ldp	539/tcp	Apertus Technologies Load Determination
apertus-ldp	539/udp	Apertus Technologies Load Determination
uucp	540/tcp	uucpd
uucp	540/udp	uucpd
uucp-rlogin	541/tcp	uucp-rlogin
uucp-rlogin	541/udp	uucp-rlogin
#		Stuart Lynne <ltsl@wimsey.com>
commerce	542/tcp	commerce
commerce	542/udp	commerce
#		Randy Epstein <ltrepstein@wiznet.net>
#		Alan Bridges <ltalan@wiznet.net>
klogin	543/tcp	
klogin	543/udp	
kshell	544/tcp	krcmd
kshell	544/udp	krcmd
appleqtcsrvr	545/tcp	appleqtcsrvr
appleqtcsrvr	545/udp	appleqtcsrvr
#		Murali Ranganathan
<ltMurali_Ranganathan@quickmail.apple.com>		
dhcpv6-client	546/tcp	DHCPv6 Client
dhcpv6-client	546/udp	DHCPv6 Client
dhcpv6-server	547/tcp	DHCPv6 Server
dhcpv6-server	547/udp	DHCPv6 Server
#		Jim Bound <ltbound@zk3.dec.com>
afpovertcp	548/tcp	AFP over TCP
afpovertcp	548/udp	AFP over TCP
#		Leland Wallace <lttrandall@apple.com>
idfp	549/tcp	IDFP
idfp	549/udp	IDFP
#		Ramana Kovi <lttramana@kovi.com>
new-rwho	550/tcp	new-who
new-rwho	550/udp	new-who
cybercash	551/tcp	cybercash
cybercash	551/udp	cybercash
#		Donald E. Eastlake 3rd <ltdee@cybercash.com>
deviceshare	552/tcp	deviceshare
deviceshare	552/udp	deviceshare
#		Brian Schenkenberger
<ltbrians@advsyscon.com>		
pirp	553/tcp	pirp
pirp	553/udp	pirp
#		D. J. Bernstein
<lttdjb@silverton.berkeley.edu>		

rtsp	554/tcp	Real Time Stream Control Protocol
rtsp	554/udp	Real Time Stream Control Protocol
#		Rob Lanphier <ltrobla@prognnet.com>
dsf	555/tcp	
dsf	555/udp	
remotefs	556/tcp	rfs server
remotefs	556/udp	rfs server
openvms-sysipc	557/tcp	openvms-sysipc
openvms-sysipc	557/udp	openvms-sysipc
#		Alan Potter <ltpotter@movies.enet.dec.com>
sdnskmp	558/tcp	SDNSKMP
sdnskmp	558/udp	SDNSKMP
teedtap	559/tcp	TEEDTAP
teedtap	559/udp	TEEDTAP
#		Mort Hoffman
		<ltthoffman@mail.ndhm.gtegs.com>
rmonitor	560/tcp	rmonitord
rmonitor	560/udp	rmonitord
monitor	561/tcp	
monitor	561/udp	
chshell	562/tcp	chcmd
chshell	562/udp	chcmd
snews	563/tcp	snews
snews	563/udp	snews
#		Kipp E.B. Hickman <ltkipp@netscape.com>
9pfs	564/tcp	plan 9 file service
9pfs	564/udp	plan 9 file service
whoami	565/tcp	whoami
whoami	565/udp	whoami
streettalk	566/tcp	streettalk
streettalk	566/udp	streettalk
banyan-rpc	567/tcp	banyan-rpc
banyan-rpc	567/udp	banyan-rpc
#		Tom Lemaire <lttoml@banyan.com>
ms-shuttle	568/tcp	microsoft shuttle
ms-shuttle	568/udp	microsoft shuttle
#		Rudolph Balaz <lttrudolphb@microsoft.com>
ms-rome	569/tcp	microsoft rome
ms-rome	569/udp	microsoft rome
#		Rudolph Balaz <lttrudolphb@microsoft.com>
meter	570/tcp	demon
meter	570/udp	demon
meter	571/tcp	udemon
meter	571/udp	udemon
sonar	572/tcp	sonar
sonar	572/udp	sonar
#		Keith Moore <ltmoore@cs.utk.edu>
banyan-vip	573/tcp	banyan-vip
banyan-vip	573/udp	banyan-vip
#		Denis Leclerc <ltDLeclerc@banyan.com>
ftp-agent	574/tcp	FTP Software Agent System
ftp-agent	574/udp	FTP Software Agent System
#		Michael S. Greenberg <ltarnoff@ftp.com>
vemmi	575/tcp	VEMMI
vemmi	575/udp	VEMMI
#		Daniel Mavrakis <ltmavrakis@mctel.fr>
ipcd	576/tcp	ipcd



ipcd	576/udp	ipcd
vnas	577/tcp	vnas
vnas	577/udp	vnas
ipdd	578/tcp	ipdd
ipdd	578/udp	ipdd
#		Greg A. Woods <ltwoods@seachange.com>
decbsrv	579/tcp	decbsrv
decbsrv	579/udp	decbsrv
#		Rudi Martin
<ltmovies::martin">		<ltmovies::martin">
sntp-heartbeat	580/tcp	Sntp HEARTBEAT
sntp-heartbeat	580/udp	Sntp HEARTBEAT
#		Louis Mamakos <ltlouie@uu.net>
bdp	581/tcp	Bundle Discovery Protocol
bdp	581/udp	Bundle Discovery Protocol
#		Gary Malkin <ltgmalkin@xylogics.com>
#	582-599	Unassigned
ipcserver	600/tcp	Sun IPC server
ipcserver	600/udp	Sun IPC server
urm	606/tcp	Cray Unified Resource Manager
urm	606/udp	Cray Unified Resource Manager
nqs	607/tcp	nqs
nqs	607/udp	nqs
n#		Bill Schiefelbein <ltschief@aspen.cray.com>
sift-uft	608/tcp	Sender-Initiated/Unsolicited File Transfer
sift-uft	608/udp	Sender-Initiated/Unsolicited File Transfer
#		Rick Troth <lttroth@rice.edu>
npmp-trap	609/tcp	npmp-trap
npmp-trap	609/udp	npmp-trap
npmp-local	610/tcp	npmp-local
npmp-local	610/udp	npmp-local
npmp-gui	611/tcp	npmp-gui
npmp-gui	611/udp	npmp-gui
#		John Barnes <ltjbarnes@crl.com>
hmmp-ind	612/tcp	HMMP Indication
hmmp-ind	612/udp	HMMP Indication
hmmp-op	613/tcp	HMMP Operation
hmmp-op	613/udp	HMMP Operation
#		Andrew Sinclair <ltandrsin@microsoft.com>
sshell	614/tcp	SSLshell
sshell	614/udp	SSLshell
#		Simon J. Gerraty <ltsjg@quick.com.au>
sco-inetmgr	615/tcp	Internet Configuration Manager
sco-inetmgr	615/udp	Internet Configuration Manager
sco-sysmgr	616/tcp	SCO System Administration Server
sco-sysmgr	616/udp	SCO System Administration Server
sco-dtmgr	617/tcp	SCO Desktop Administration Server
sco-dtmgr	617/udp	SCO Desktop Administration Server
#		Christopher Durham <ltchrisdu@sco.com>
dei-icda	618/tcp	DEI-ICDA
dei-icda	618/udp	DEI-ICDA
#		David Turner <ltdigital@Quetico.tbaytel.net>
digital-evm	619/tcp	Digital EVM
digital-evm	619/udp	Digital EVM
#		Jem Treadwell <ltjem@unx.dec.com>
sco-websrvrmgr	620/tcp	SCO WebServer Manager
sco-websrvrmgr	620/udp	SCO WebServer Manager

#		Christopher Durham <ltchrisdu@sco.com>
#	621-632	Unassigned
servstat	633/tcp	Service Status update (Sterling Software)
servstat	633/udp	Service Status update (Sterling Software)
#		Greg Rose <ltGreg_Rose@sydney.sterling.com>
ginad	634/tcp	ginad
ginad	634/udp	ginad
#		Mark Crother <ltmark@eis.calstate.edu>
rlzdbase	635/tcp	RLZ DBase
rlzdbase	635/udp	RLZ DBase
#		Michael Ginn <ltginn@netcom.com>
ssl-ldap	636/tcp	ssl-ldap
ssl-ldap	636/udp	ssl-ldap
#		Pat Richard <ltpatr@xcert.com>
lanserver	637/tcp	lanserver
lanserver	637/udp	lanserver
#		Chris Larsson <ltclarsson@VNET.IBM.COM>
#	638-665	Unassigned
mdqs	666/tcp	
mdqs	666/udp	
doom	666/tcp	doom Id Software
doom	666/udp	doom Id Software
#		<ltddt@idcube.idsoftware.com>
disclose	667/tcp	campaign contribution disclosures -
		SDR Technologies
disclose	667/udp	campaign contribution disclosures -
		SDR Technologies
#		Jim Dixon <ltjim@lambda.com>
mecomm	668/tcp	MeComm
mecomm	668/udp	MeComm
meregister	669/tcp	MeRegister
meregister	669/udp	MeRegister
#		Armin Sawusch <ltarmin@esd1.esd.de>
vacdsm-sws	670/tcp	VACDSM-SWS
vacdsm-sws	670/udp	VACDSM-SWS
vacdsm-app	671/tcp	VACDSM-APP
vacdsm-app	671/udp	VACDSM-APP
vpps-qua	672/tcp	VPPS-QUA
vpps-qua	672/udp	VPPS-QUA
cimplex	673/tcp	CIMPLEX
cimplex	673/udp	CIMPLEX
#		Ulysses G. Smith Jr. <ltugsmith@cesi.com>
acap	674/tcp	ACAP
acap	674/udp	ACAP
#		Chris Newman <ltChris.Newman@innosoft.com>
#	674-703	Unassigned
elcsd	704/tcp	errlog copy/server daemon
elcsd	704/udp	errlog copy/server daemon
agentx	705/tcp	AgentX
agentx	705/udp	AgentX
#		Bob Natale <ltnatale@acec.com>
#	706-708	Unassigned
entrust-kmsh	709/tcp	Entrust Key Management Service Handler
entrust-kmsh	709/udp	Entrust Key Management Service Handler
entrust-ash	710/tcp	Entrust Administration Service Handler
entrust-ash	710/udp	Entrust Administration Service Handler
#		Peter Whittaker <ltppww@entrust.com>

#	711-728	Unassigned
netviewdm1	729/tcp	IBM NetView DM/6000 Server/Client
netviewdm1	729/udp	IBM NetView DM/6000 Server/Client
netviewdm2	730/tcp	IBM NetView DM/6000 send/tcp
netviewdm2	730/udp	IBM NetView DM/6000 send/tcp
netviewdm3	731/tcp	IBM NetView DM/6000 receive/tcp
netviewdm3	731/udp	IBM NetView DM/6000 receive/tcp
#		Philippe Binet (phbinet@vnet.IBM.COM)
netgw	741/tcp	netGW
netgw	741/udp	netGW
#		Oliver Korfmacher (okorf@netcs.com)
netrcs	742/tcp	Network based Rev. Cont. Sys.
netrcs	742/udp	Network based Rev. Cont. Sys.
#		Gordon C. Galligher
<gorpong@ping.chi.il.us>		
flexlm	744/tcp	Flexible License Manager
flexlm	744/udp	Flexible License Manager
#		Matt Christiano
#		<globes@matt@oliveb.atc.olivetti.com>
fujitsu-dev	747/tcp	Fujitsu Device Control
fujitsu-dev	747/udp	Fujitsu Device Control
ris-cm	748/tcp	Russell Info Sci Calendar Manager
ris-cm	748/udp	Russell Info Sci Calendar Manager
kerberos-adm	749/tcp	kerberos administration
kerberos-adm	749/udp	kerberos administration
rfile	750/tcp	
loadav	750/udp	
kerberos-iv	750/udp	kerberos version iv
#		Martin Hamilton <martin@mrml.lut.as.uk>
pump	751/tcp	
pump	751/udp	
qrh	752/tcp	
qrh	752/udp	
rrh	753/tcp	
rrh	753/udp	
tell	754/tcp	send
tell	754/udp	send
nlogin	758/tcp	
nlogin	758/udp	
con	759/tcp	
con	759/udp	
ns	760/tcp	
ns	760/udp	
rx	761/tcp	
rx	761/udp	
quotad	762/tcp	
quotad	762/udp	
cycleserv	763/tcp	
cycleserv	763/udp	
omserv	764/tcp	
omserv	764/udp	
webster	765/tcp	
webster	765/udp	
phonebook	767/tcp	phone
phonebook	767/udp	phone
vid	769/tcp	
vid	769/udp	

cadlock	770/tcp	
cadlock	770/udp	
rtip	771/tcp	
rtip	771/udp	
cycleserv2	772/tcp	
cycleserv2	772/udp	
submit	773/tcp	
notify	773/udp	
passwd	774/tcp	
acmaint_dbd	774/udp	
entomb	775/tcp	
acmaint_transd	775/udp	
wpages	776/tcp	
wpages	776/udp	
wpgs	780/tcp	
wpgs	780/udp	
concert	786/tcp	Concert
concert	786/udp	Concert
#		Josyula R. Rao <jrrao@watson.ibm.com>
#	787-799	Unassigned
mdbs_daemon	800/tcp	
mdbs_daemon	800/udp	
device	801/tcp	
device	801/udp	
#		Unassigned
iclcnnet-locate	886/tcp	ICL coNETion locate server
iclcnnet-locate	886/udp	ICL coNETion locate server
#		Bob Lyon <tbl@oasis.icl.co.uk>
iclcnnet_svinf	887/tcp	ICL coNETion server info
iclcnnet_svinf	887/udp	ICL coNETion server info
#		Bob Lyon <tbl@oasis.icl.co.uk>
accessbuilder	888/tcp	AccessBuilder
accessbuilder	888/udp	AccessBuilder
#		Steve Sweeney
		<Steven.Sweeney@3mail.3com.com>
#	889-910	Unassigned
xact-backup	911/tcp	xact-backup
xact-backup	911/tcp	xact-backup
#		Bill Carroll <billc@xactlabs.com>
#	912-990	Unassigned
nas	991/tcp	Netnews Administration System
nas	991/udp	Netnews Administration System
#		Vera Heinau <theinau@fu-berlin.de>
#		Heiko Schlichting <theiko@fu-berlin.de>
#	992-994	Unassigned
spop3	995/tcp	SSL based POP3
spop3	995/udp	SSL based POP3
#		Gordon Mangione <tgordm@microsoft.com>
vsinet	996/tcp	vsinet
vsinet	996/udp	vsinet
#		Rob Juergens <trobj@vsi.com>
maitrd	997/tcp	
maitrd	997/udp	
busboy	998/tcp	
puparp	998/udp	
garcon	999/tcp	
applix	999/udp	Applix ac

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puprouter      999/tcp
puprouter      999/udp
cadlock        1000/tcp
ock            1000/udp
#              1001-1022      Unassigned
              1023/tcp       Reserved
              1023/udp       Reserved
#              IANA <lt;tiana@isi.edu>

```

## REGISTERED PORT NUMBERS

The Registered Ports are not controlled by the IANA and on most systems can be used by ordinary user processes or programs executed by ordinary 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. While the IANA can not control uses of these ports it does register or list uses of these ports as a convenience to the community.

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

The Registered Ports are in the range 1024-65535.

### Port Assignments:

Keyword	Decimal	Description	References
-----	-----	-----	-----
	1024/tcp	Reserved	
	1024/udp	Reserved	
#		IANA <lt;tiana@isi.edu>	
blackjack	1025/tcp	network blackjack	
blackjack	1025/udp	network blackjack	
iad1	1030/tcp	BBN IAD	
iad1	1030/udp	BBN IAD	
iad2	1031/tcp	BBN IAD	
iad2	1031/udp	BBN IAD	
iad3	1032/tcp	BBN IAD	
iad3	1032/udp	BBN IAD	
#		Andy Malis <lt;malis_a@timeplex.com>	
neod1	1047/tcp	Sun's NEO Object Request Broker	
neod1	1047/udp	Sun's NEO Object Request Broker	
neod2	1048/tcp	Sun's NEO Object Request Broker	
neod2	1048/udp	Sun's NEO Object Request Broker	
#		Rohit Garg <lt;rohit.garg@eng.sun.com>	
nim	1058/tcp	nim	
nim	1058/udp	nim	
nimreg	1059/tcp	nimreg	
nimreg	1059/udp	nimreg	
#		Robert Gordon <lt;rtrbg@austin.ibm.com>	
inst1_boots	1067/tcp	Installation Bootstrap Proto. Serv.	

instl_boots	1067/udp	Installation Bootstrap Proto. Serv.
instl_bootc	1068/tcp	Installation Bootstrap Proto. Cli.
instl_bootc	1068/udp	Installation Bootstrap Proto. Cli.
#		David Arko <ldarko@hpfcfn.fc.hp.com>
socks	1080/tcp	Socks
socks	1080/udp	Socks
#		Ying-Da Lee <lylee@syl.dl.nec.com>
ansoft-lm-1	1083/tcp	Anasoft License Manager
ansoft-lm-1	1083/udp	Anasoft License Manager
ansoft-lm-2	1084/tcp	Anasoft License Manager
ansoft-lm-2	1084/udp	Anasoft License Manager
nfsd-status	1110/tcp	Cluster status info
nfsd-keepalive	1110/udp	Client status info
#		Edgar Circenis <ltec@hpfcclj.fc.hp.com>
murray	1123/tcp	Murray
murray	1123/udp	Murray
#		Stu Mark <tfordii@j51.com>
nfa	1155/tcp	Network File Access
nfa	1155/udp	Network File Access
#		James Powell <tjames@mailhost.unidata.com>
lupa	1212/tcp	lupa
lupa	1212/udp	lupa
#		Barney Wolff <tbarney@databus.com>
nerv	1222/tcp	SNI R&D network
nerv	1222/udp	SNI R&D network
#		Martin Freiss <tfreiss.pad@sni.de>
hermes	1248/tcp	
hermes	1248/udp	
#	1249-1312	Unassigned
bmc_patroldb	1313/tcp	BMC_PATROLDDB
bmc_patroldb	1313/udp	BMC_PATROLDDB
#		Devon Shows <tDevon_Shows@crow.bmc.com>
pdps	1314/tcp	Photoscript Distributed Printing System
pdps	1314/udp	Photoscript Distributed Printing System
#		Les Klein <tsgy@cix.compulink.co.uk>
#	1315-1344	Unassigned
vpjp	1345/tcp	VPJP
vpjp	1345/udp	VPJP
#		Michael Collins <tUBMCollins@aol.com>
alta-ana-lm	1346/tcp	Alta Analytics License Manager
alta-ana-lm	1346/udp	Alta Analytics License Manager
bbn-mmcc	1347/tcp	multi media conferencing
bbn-mmcc	1347/udp	multi media conferencing
bbn-mmxx	1348/tcp	multi media conferencing
bbn-mmxx	1348/udp	multi media conferencing
sbook	1349/tcp	Registration Network Protocol
sbook	1349/udp	Registration Network Protocol
editbench	1350/tcp	Registration Network Protocol
editbench	1350/udp	Registration Network Protocol
#	Simson L.	Garfinkel <tsimsong@next.cambridge.ma.us>
equationbuilder	1351/tcp	Digital Tool Works (MIT)
equationbuilder	1351/udp	Digital Tool Works (MIT)
#		Terrence J. Talbot <tlexcube!tjt@bu.edu>
lotusnote	1352/tcp	Lotus Note
lotusnote	1352/udp	Lotus Note
#		Greg Pflaum <tiris.com!Greg_Pflaum@uunet.uu.net>
relief	1353/tcp	Relief Consulting

relief	1353/udp	Relief Consulting
#		John Feiler <ltrelief!jjfeiler@uu2.psi.com>
rightbrain	1354/tcp	RightBrain Software
rightbrain	1354/udp	RightBrain Software
#		Glenn Reid <ltglann@rightbrain.com>
intuitive edge	1355/tcp	Intuitive Edge
intuitive edge	1355/udp	Intuitive Edge
#		Montgomery Zukowski
#		<ltmonty@nextnorth.acs.ohio-state.edu>
cuillamartin	1356/tcp	CuillaMartin Company
cuillamartin	1356/udp	CuillaMartin Company
pegboard	1357/tcp	Electronic PegBoard
pegboard	1357/udp	Electronic PegBoard
#		Chris Cuilla
#		<ltbalr!vpnet!cuilla!chris@clout.chi.il.us>
connlcli	1358/tcp	CONNLCI
connlcli	1358/udp	CONNLCI
ftsrv	1359/tcp	FTSRV
ftsrv	1359/udp	FTSRV
#		Ines Homem de Melo
<ltsidinf@brfapesp.bitnet>		
mimer	1360/tcp	MIMER
mimer	1360/udp	MIMER
#		Per Schroeder <ltPer.Schroeder@mimer.se>
linx	1361/tcp	LinX
linx	1361/udp	LinX
#		Steffen Schilke <lt---none--->
timeflies	1362/tcp	TimeFlies
timeflies	1362/udp	TimeFlies
#		Doug Kent <ltmouthers@slugg@nwnexus.wa.com>
ndm-requester	1363/tcp	Network DataMover Requester
ndm-requester	1363/udp	Network DataMover Requester
ndm-server	1364/tcp	Network DataMover Server
ndm-server	1364/udp	Network DataMover Server
#		Toshio Watanabe
#		<ltwatanabe@godzilla.rsc.spdd.ricoh.co.jp>
adapt-sna	1365/tcp	Network Software Associates
adapt-sna	1365/udp	Network Software Associates
#		Jeffery Chiao <lt714-768-401>
netware-csp	1366/tcp	Novell NetWare Comm Service Platform
netware-csp	1366/udp	Novell NetWare Comm Service Platform
#		Laurie Lindsey <ltllindsey@novell.com>
dcs	1367/tcp	DCS
dcs	1367/udp	DCS
#		Stefan Siebert <ltssiebert@dcs.de>
screencast	1368/tcp	ScreenCast
screencast	1368/udp	ScreenCast
#		Bill Tschumy <lttother!bill@uunet.UU.NET>
gv-us	1369/tcp	GlobalView to Unix Shell
gv-us	1369/udp	GlobalView to Unix Shell
us-gv	1370/tcp	Unix Shell to GlobalView
us-gv	1370/udp	Unix Shell to GlobalView
#		Makoto Mita <ltmita@ssdev.ksp.fujixerox.co.jp>
fc-cli	1371/tcp	Fujitsu Config Protocol
fc-cli	1371/udp	Fujitsu Config Protocol
fc-ser	1372/tcp	Fujitsu Config Protocol
fc-ser	1372/udp	Fujitsu Config Protocol

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# Ryuichi Horie &lthorie@spad.sysrap.cs.fujitsu.co.jp>
chromagrafx 1373/tcp Chromagrafx
chromagrafx 1373/udp Chromagrafx
# Mike Barthelemy &lt;tmsb@chromagrafx.com>
molly 1374/tcp EPI Software Systems
molly 1374/udp EPI Software Systems
# Jim Vlcek &lt;tlvcek@epimbe.com>
bytex 1375/tcp Bytex
bytex 1375/udp Bytex
# Mary Ann Burt &lt;bytex!ws054!maryann@uunet.UU.NET>
ibm-pps 1376/tcp IBM Person to Person Software
ibm-pps 1376/udp IBM Person to Person Software
# Simon Phipps &lt;sphipp@vnet.ibm.com>
cichlid 1377/tcp Cichlid License Manager
cichlid 1377/udp Cichlid License Manager
# Andy Burgess &lt;aab@cichlid.com>
elan 1378/tcp Elan License Manager
elan 1378/udp Elan License Manager
# Ken Greer &lt;kg@elan.com>
dbreporter 1379/tcp Integrity Solutions
dbreporter 1379/udp Integrity Solutions
# Tim Dawson &lt;tdawson%mspboss@uunet.UU.NET>
telesis-licman 1380/tcp Telesis Network License Manager
telesis-licman 1380/udp Telesis Network License Manager
# Karl Schendel, Jr. &lt;twiz@telesis.com>
apple-licman 1381/tcp Apple Network License Manager
apple-licman 1381/udp Apple Network License Manager
# Earl Wallace &lt;earlw@apple.com>
udt_os 1382/tcp
udt_os 1382/udp
gwha 1383/tcp GW Hannaway Network License Manager
gwha 1383/udp GW Hannaway Network License Manager
# J. Gabriel Foster &lt;fop@gwha.com>
os-licman 1384/tcp Objective Solutions License Manager
os-licman 1384/udp Objective Solutions License Manager
# Donald Cornwell &lt;don.cornwell@objective.com>
atex_elmd 1385/tcp Atex Publishing License Manager
atex_elmd 1385/udp Atex Publishing License Manager
# Brett Sorenson &lt;bcs@atex.com>
checksum 1386/tcp CheckSum License Manager
checksum 1386/udp CheckSum License Manager
# Andreas Glocker &lt;glocker@sirius.com>
cadsim-lm 1387/tcp Computer Aided Design Software Inc LM
cadsim-lm 1387/udp Computer Aided Design Software Inc LM
# Sulistio Muljadi
objective-dbc 1388/tcp Objective Solutions DataBase Cache
objective-dbc 1388/udp Objective Solutions DataBase Cache
# Donald Cornwell
iclpv-dm 1389/tcp Document Manager
iclpv-dm 1389/udp Document Manager
iclpv-sc 1390/tcp Storage Controller
iclpv-sc 1390/udp Storage Controller
iclpv-sas 1391/tcp Storage Access Server
iclpv-sas 1391/udp Storage Access Server
iclpv-pm 1392/tcp Print Manager
iclpv-pm 1392/udp Print Manager
iclpv-nls 1393/tcp Network Log Server

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iclpv-nls	1393/udp	Network Log Server
iclpv-nlc	1394/tcp	Network Log Client
iclpv-nlc	1394/udp	Network Log Client
iclpv-wsm	1395/tcp	PC Workstation Manager software
iclpv-wsm	1395/udp	PC Workstation Manager software
#		A.P. Hobson <A.P.Hobson@bra0112.wins.icl.co.uk>
dvl-activemail	1396/tcp	DVL Active Mail
dvl-activemail	1396/udp	DVL Active Mail
audio-activmail	1397/tcp	Audio Active Mail
audio-activmail	1397/udp	Audio Active Mail
video-activmail	1398/tcp	Video Active Mail
video-activmail	1398/udp	Video Active Mail
#		Ehud Shapiro <tudi@wisdon.weizmann.ac.il>
cadkey-licman	1399/tcp	Cadkey License Manager
cadkey-licman	1399/udp	Cadkey License Manager
cadkey-tablet	1400/tcp	Cadkey Tablet Daemon
cadkey-tablet	1400/udp	Cadkey Tablet Daemon
#		Joe McCollough <joe@cadkey.com>
goldleaf-licman	1401/tcp	Goldleaf License Manager
goldleaf-licman	1401/udp	Goldleaf License Manager
#		John Fox <---none--->
prm-sm-np	1402/tcp	Prospero Resource Manager
prm-sm-np	1402/udp	Prospero Resource Manager
prm-nm-np	1403/tcp	Prospero Resource Manager
prm-nm-np	1403/udp	Prospero Resource Manager
#		B. Clifford Neuman <tbcn@isi.edu>
igi-lm	1404/tcp	Infinite Graphics License Manager
igi-lm	1404/udp	Infinite Graphics License Manager
ibm-res	1405/tcp	IBM Remote Execution Starter
ibm-res	1405/udp	IBM Remote Execution Starter
netlabs-lm	1406/tcp	NetLabs License Manager
netlabs-lm	1406/udp	NetLabs License Manager
dbsa-lm	1407/tcp	DBSA License Manager
dbsa-lm	1407/udp	DBSA License Manager
#		Scott Shattuck <tss@dbsa.com>
sophia-lm	1408/tcp	Sophia License Manager
sophia-lm	1408/udp	Sophia License Manager
#		Eric Brown <tsst!emerald!eric@uunet.UU.net>
here-lm	1409/tcp	Here License Manager
here-lm	1409/udp	Here License Manager
#		David Ison <lthere@dialup.oar.net>
hiq	1410/tcp	HiQ License Manager
hiq	1410/udp	HiQ License Manager
#		Rick Pugh <ltrick@bilmillennium.com>
af	1411/tcp	AudioFile
af	1411/udp	AudioFile
#		Jim Gettys <tjg@crl.dec.com>
innosys	1412/tcp	InnoSys
innosys	1412/udp	InnoSys
innosys-acl	1413/tcp	Innosys-ACL
innosys-acl	1413/udp	Innosys-ACL
#		Eric Welch <--none--->
ibm-mqseries	1414/tcp	IBM MQSeries
ibm-mqseries	1414/udp	IBM MQSeries
#		Roger Meli <trmmeli%winvmd@vnet.ibm.com>
dbstar	1415/tcp	DBStar
dbstar	1415/udp	DBStar

#		Jeffrey Millman <lt;jcm@dbstar.com>
novell-lu6.2	1416/tcp	Novell LU6.2
novell-lu6.2	1416/udp	Novell LU6.2
#		Peter Liu <lt;--none--->
timbuktu-srv1	1417/tcp	Timbuktu Service 1 Port
timbuktu-srv1	1417/tcp	Timbuktu Service 1 Port
timbuktu-srv2	1418/tcp	Timbuktu Service 2 Port
timbuktu-srv2	1418/udp	Timbuktu Service 2 Port
timbuktu-srv3	1419/tcp	Timbuktu Service 3 Port
timbuktu-srv3	1419/udp	Timbuktu Service 3 Port
timbuktu-srv4	1420/tcp	Timbuktu Service 4 Port
timbuktu-srv4	1420/udp	Timbuktu Service 4 Port
#		Marc Epard <lt;marc@waygate.farallon.com>
gandalf-lm	1421/tcp	Gandalf License Manager
gandalf-lm	1421/udp	Gandalf License Manager
#		gilmer@gandalf.ca
autodesk-lm	1422/tcp	Autodesk License Manager
autodesk-lm	1422/udp	Autodesk License Manager
#		David Ko <lt;dtko@autodesk.com>
essbase	1423/tcp	Essbase Arbor Software
essbase	1423/udp	Essbase Arbor Software
hybrid	1424/tcp	Hybrid Encryption Protocol
hybrid	1424/udp	Hybrid Encryption Protocol
#		Howard Hart <lt;hch@hybrid.com>
zion-lm	1425/tcp	Zion Software License Manager
zion-lm	1425/udp	Zion Software License Manager
#		David Ferrero <lt;david@zion.com>
sais	1426/tcp	Satellite-data Acquisition System 1
sais	1426/udp	Satellite-data Acquisition System 1
#		Bill Taylor <lt;sais@ssec.wisc.edu>
mload	1427/tcp	mload monitoring tool
mload	1427/udp	mload monitoring tool
#		Bob Braden <lt;braden@isi.edu>
informatik-lm	1428/tcp	Informatik License Manager
informatik-lm	1428/udp	Informatik License Manager
#		Harald Schlangmann
#		<lt;schlangm@informatik.uni-muenchen.de>
nms	1429/tcp	Hypercom NMS
nms	1429/udp	Hypercom NMS
tpdu	1430/tcp	Hypercom TPDU
tpdu	1430/udp	Hypercom TPDU
#		Noor Chowdhury <lt;noor@hypercom.com>
rgtp	1431/tcp	Reverse Gossip Transport
rgtp	1431/udp	Reverse Gossip Transport
#		Ian Jackson <lt;iwj@cam-orl.co.uk>
blueberry-lm	1432/tcp	Blueberry Software License Manager
blueberry-lm	1432/udp	Blueberry Software License Manager
#		Steve Beigel <lt;tubblue!steve@uunet.uu.net>
ms-sql-s	1433/tcp	Microsoft-SQL-Server
ms-sql-s	1433/udp	Microsoft-SQL-Server
ms-sql-m	1434/tcp	Microsoft-SQL-Monitor
ms-sql-m	1434/udp	Microsoft-SQL-Monitor
#		Peter Hussey <lt;peterhus@microsoft.com>
ibm-cics	1435/tcp	IBM CICS
ibm-cics	1435/udp	IBM CICS
#		Geoff Meacock <lt;gbibmswl@ibmmail.COM>
saism	1436/tcp	Satellite-data Acquisition System 2

saism	1436/udp	Satellite-data Acquisition System 2
#		Bill Taylor <tsais@ssec.wisc.edu>
tabula	1437/tcp	Tabula
tabula	1437/udp	Tabula
#		Marcelo Einhorn
#		<KGUNE%HUJIVM1.bitnet@taunivm.tau.ac.il>
eicon-server	1438/tcp	Eicon Security Agent/Server
eicon-server	1438/udp	Eicon Security Agent/Server
eicon-x25	1439/tcp	Eicon X25/SNA Gateway
eicon-x25	1439/udp	Eicon X25/SNA Gateway
eicon-slp	1440/tcp	Eicon Service Location Protocol
eicon-slp	1440/udp	Eicon Service Location Protocol
#		Pat Calhoun <CALHOUN@admin.eicon.qc.ca>
cadis-1	1441/tcp	Cadis License Management
cadis-1	1441/udp	Cadis License Management
cadis-2	1442/tcp	Cadis License Management
cadis-2	1442/udp	Cadis License Management
#		Todd Wichers <ttwichers@csn.org>
ies-lm	1443/tcp	Integrated Engineering Software
ies-lm	1443/udp	Integrated Engineering Software
#		David Tong <David_Tong@integrated.mb.ca>
marcam-lm	1444/tcp	Marcam License Management
marcam-lm	1444/udp	Marcam License Management
#		Therese Hunt <lthunt@marcam.com>
proxima-lm	1445/tcp	Proxima License Manager
proxima-lm	1445/udp	Proxima License Manager
ora-lm	1446/tcp	Optical Research Associates License Manager
ora-lm	1446/udp	Optical Research Associates License Manager
apri-lm	1447/tcp	Applied Parallel Research LM
apri-lm	1447/udp	Applied Parallel Research LM
#		Jim Dillon <tjed@apri.com>
oc-lm	1448/tcp	OpenConnect License Manager
oc-lm	1448/udp	OpenConnect License Manager
#		Sue Barnhill <ltsnb@oc.com>
peport	1449/tcp	PEport
peport	1449/udp	PEport
#		Qentin Neill <qquentin@ColumbiaSC.NCR.COM>
dwf	1450/tcp	Tandem Distributed Workbench Facility
dwf	1450/udp	Tandem Distributed Workbench Facility
#		Mike Bert <BERG_MIKE@tandem.com>
infoman	1451/tcp	IBM Information Management
infoman	1451/udp	IBM Information Management
#		Karen Burns <---none--->
gtegsc-lm	1452/tcp	GTE Government Systems License Man
gtegsc-lm	1452/udp	GTE Government Systems License Man
#		Mike Gregory <Gregory_Mike@msmail.iipo.gtegsc.com>
genie-lm	1453/tcp	Genie License Manager
genie-lm	1453/udp	Genie License Manager
#		Paul Applegate
		<tp.applegate2@genie.geis.com>
interhdl_elmd	1454/tcp	interHDL License Manager
interhdl_elmd	1454/tcp	interHDL License Manager
#		Eli Sternheim eli@interhdl.com
esl-lm	1455/tcp	ESL License Manager
esl-lm	1455/udp	ESL License Manager
#		Abel Chou <label@willy.esl.com>
dca	1456/tcp	DCA

dca	1456/udp	DCA
#		Jeff Garbers <jgarbers@netcom.com>
valisys-lm	1457/tcp	Valisys License Manager
valisys-lm	1457/udp	Valisys License Manager
#		Leslie Lincoln <tleslie_lincoln@valisys.com>
nrcabq-lm	1458/tcp	Nichols Research Corp.
nrcabq-lm	1458/udp	Nichols Research Corp.
#		Howard Cole <thcole@tumbleweed.nrcabq.com>
proshare1	1459/tcp	Proshare Notebook Application
proshare1	1459/udp	Proshare Notebook Application
proshare2	1460/tcp	Proshare Notebook Application
proshare2	1460/udp	Proshare Notebook Application
#		Robin Kar <Robin_Kar@ccm.hf.intel.com>
ibm_wrless_lan	1461/tcp	IBM Wireless LAN
ibm_wrless_lan	1461/udp	IBM Wireless LAN
#		<flan@vnet.IBM.COM>
world-lm	1462/tcp	World License Manager
world-lm	1462/udp	World License Manager
#		Michael S Amirault <tambi@world.std.com>
nucleus	1463/tcp	Nucleus
nucleus	1463/udp	Nucleus
#		Venky Nagar <venky@fafner.Stanford.EDU>
msl_lmd	1464/tcp	MSL License Manager
msl_lmd	1464/udp	MSL License Manager
#		Matt Timmermans
pipes	1465/tcp	Pipes Platform
pipes	1465/udp	Pipes Platform mfarlin@peerlogic.com
#		Mark Farlin <tmfarlin@peerlogic.com>
oceansoft-lm	1466/tcp	Ocean Software License Manager
oceansoft-lm	1466/udp	Ocean Software License Manager
#		Randy Leonard <randy@oceansoft.com>
csdmbase	1467/tcp	CSDMBASE
csdmbase	1467/udp	CSDMBASE
csdm	1468/tcp	CSDM
csdm	1468/udp	CSDM
#		Robert Stabl <rstabl@informatik.uni-muenchen.de>
aal-lm	1469/tcp	Active Analysis Limited License Manager
aal-lm	1469/udp	Active Analysis Limited License Manager
#		David Snocken +44 (71)437-7009
uaiact	1470/tcp	Universal Analytics
uaiact	1470/udp	Universal Analytics
#		Mark R. Ludwig <Mark-Ludwig@uai.com>
csdmbase	1471/tcp	csdmbase
csdmbase	1471/udp	csdmbase
csdm	1472/tcp	csdm
csdm	1472/udp	csdm
#		Robert Stabl <rstabl@informatik.uni-muenchen.de>
openmath	1473/tcp	OpenMath
openmath	1473/udp	OpenMath
#		Garth Mayville <mayville@maplesoft.on.ca>
telefinder	1474/tcp	Telefinder
telefinder	1474/udp	Telefinder
#		Jim White <Jim_White@spiderisland.com>
taligent-lm	1475/tcp	Taligent License Manager
taligent-lm	1475/udp	Taligent License Manager
#		Mark Sapsford <Mark_Sapsford@taligent.com>
clvm-cfg	1476/tcp	clvm-cfg

clvm-cfg	1476/udp	clvm-cfg
#		Eric Soderberg <eric@cup.hp.com>
ms-sna-server	1477/tcp	ms-sna-server
ms-sna-server	1477/udp	ms-sna-server
ms-sna-base	1478/tcp	ms-sna-base
ms-sna-base	1478/udp	ms-sna-base
#		Gordon Mangione <gordm@microsoft.com>
dberegister	1479/tcp	dberegister
dberegister	1479/udp	dberegister
#		Brian Griswold <brian@dancingbear.com>
pacerforum	1480/tcp	PacerForum
pacerforum	1480/udp	PacerForum
#		Peter Caswell <tpfc@pacvax.pacersoft.com>
airs	1481/tcp	AIRS
airs	1481/udp	AIRS
#		Bruce Wilson, 905-771-6161
miteksys-lm	1482/tcp	Miteksys License Manager
miteksys-lm	1482/udp	Miteksys License Manager
#		Shane McRoberts <smcroberts@miteksys.com>
afs	1483/tcp	AFS License Manager
afs	1483/udp	AFS License Manager
#		Michael R. Pizolato <michael@afs.com>
confluent	1484/tcp	Confluent License Manager
confluent	1484/udp	Confluent License Manager
#		James Greenfiel <jim@pa.confluent.com>
lansource	1485/tcp	LANSource
lansource	1485/udp	LANSource
#		Doug Scott <tlansourc@hookup.net>
nms_topo_serv	1486/tcp	nms_topo_serv
nms_topo_serv	1486/udp	nms_topo_serv
#		Sylvia Siu <Sylvia_Siu@Novell.CO>
localinfosrvr	1487/tcp	LocalInfoSrvr
localinfosrvr	1487/udp	LocalInfoSrvr
#		Brian Matthews <brian_matthews@ibist.ibis.com>
docstor	1488/tcp	DocStor
docstor	1488/udp	DocStor
#		Brian Spears <bspears@salix.com>
dmdocbroker	1489/tcp	dmdocbroker
dmdocbroker	1489/udp	dmdocbroker
#		Razmik Abnous <tabnous@documentum.com>
insitu-conf	1490/tcp	insitu-conf
insitu-conf	1490/udp	insitu-conf
#		Paul Blacknell <paul@insitu.com>
anynetgateway	1491/tcp	anynetgateway
anynetgateway	1491/udp	anynetgateway
#		Dan Poirier <tpoirier@VNET.IBM.COM>
stone-design-1	1492/tcp	stone-design-1
stone-design-1	1492/udp	stone-design-1
#		Andrew Stone <andrew@stone.com>
netmap_lm	1493/tcp	netmap_lm
netmap_lm	1493/udp	netmap_lm
#		Phillip Magson <tphillm@extro.ucc.su.OZ.AU>
ica	1494/tcp	ica
ica	1494/udp	ica
#		John Richardson, Citrix Systems
cvc	1495/tcp	cvc
cvc	1495/udp	cvc

#		Bill Davidson <billd@equalizer.cray.com>
liberty-lm	1496/tcp	liberty-lm
liberty-lm	1496/udp	liberty-lm
#		Jim Rogers <ttrane!jimbo@pacbell.com>
rfx-lm	1497/tcp	rfx-lm
rfx-lm	1497/udp	rfx-lm
#		Bill Bishop <bil@rfx.rfx.com>
watcom-sql	1498/tcp	Watcom-SQL
watcom-sql	1498/udp	Watcom-SQL
#		Rog Skubowius
<lrwskubow@ccnga.uwaterloo.ca>		
fhc	1499/tcp	Federico Heinz Consultora
fhc	1499/udp	Federico Heinz Consultora
#		Federico Heinz <tfederico@heinz.com>
vlsi-lm	1500/tcp	VLSI License Manager
vlsi-lm	1500/udp	VLSI License Manager
#		Shue-Lin Kuo
<tshuelin@mdk.sanjose.vlsi.com>		
saism	1501/tcp	Satellite-data Acquisition System 3
saism	1501/udp	Satellite-data Acquisition System 3
#		Bill Taylor <tsais@ssec.wisc.edu>
shivadiscovery	1502/tcp	Shiva
shivadiscovery	1502/udp	Shiva
#		Jonathan Wenocur <tjhw@Shiva.COM>
imtc-mcs	1503/tcp	Databeam
imtc-mcs	1503/udp	Databeam
#		Jim Johnstone <tjohnstone@databeam.com>
evb-elm	1504/tcp	EVB Software Engineering License Manager
evb-elm	1504/udp	EVB Software Engineering License Manager
#		B.G. Mahesh <mahesh@sett.com>
funkproxy	1505/tcp	Funk Software, Inc.
funkproxy	1505/udp	Funk Software, Inc.
#		Robert D. Vincent <bert@willowpond.com>
utcd	1506/tcp	Universal Time daemon (utcd)
utcd	1506/udp	Universal Time daemon (utcd)
#		Walter Poxon <twdp@ironwood.cray.com>
symplex	1507/tcp	symplex
symplex	1507/udp	symplex
#		Mike Turley <tturley@symplex.com>
diagmond	1508/tcp	diagmond
diagmond	1508/udp	diagmond
#		Pete Moscatelli
<moscat@hprdstl0.rose.hp.com>		
robcad-lm	1509/tcp	Robcad, Ltd. License Manager
robcad-lm	1509/udp	Robcad, Ltd. License Manager
#		Hindin Joseph
<thindin%robcad@uunet.uu.net>		
mvx-lm	1510/tcp	Midland Valley Exploration Ltd. Lic. Man.
mvx-lm	1510/udp	Midland Valley Exploration Ltd. Lic. Man.
#		Neil Salter
<neil@indigo2.mvel.demon.co.uk>		
31-l1	1511/tcp	31-l1
31-l1	1511/udp	31-l1
#		Ian A. Young <tiay@threel.co.uk>
wins	1512/tcp	Microsoft's Windows Internet Name Service
wins	1512/udp	Microsoft's Windows Internet Name Service
#		Pradeep Bahl <pradeepb@microsoft.com>

fujitsu-dtc	1513/tcp	Fujitsu Systems Business of America, Inc
fujitsu-dtc	1513/udp	Fujitsu Systems Business of America, Inc
fujitsu-dtcns	1514/tcp	Fujitsu Systems Business of America, Inc
fujitsu-dtcns	1514/udp	Fujitsu Systems Business of America, Inc
#		Charles A. Higgins
<75730.2257@compuserve.com>		
ifor-protocol	1515/tcp	ifor-protocol
ifor-protocol	1515/udp	ifor-protocol
#		Dr. R.P. Alston <trobin@gradient.com>
vpad	1516/tcp	Virtual Places Audio data
vpad	1516/udp	Virtual Places Audio data
vpac	1517/tcp	Virtual Places Audio control
vpac	1517/udp	Virtual Places Audio control
vpvd	1518/tcp	Virtual Places Video data
vpvd	1518/udp	Virtual Places Video data
vpvc	1519/tcp	Virtual Places Video control
vpvc	1519/udp	Virtual Places Video control
#		Ehud Shapiro <tudi@ubique.co.il>
atm-zip-office	1520/tcp	atm zip office
atm-zip-office	1520/udp	atm zip office
#		Wilson Kwan <wilsonk%toronto@zip.atm.com>
ncube-lm	1521/tcp	nCube License Manager
ncube-lm	1521/udp	nCube License Manager
#		Maxine Yuen <maxine@hq.ncube.com>
ricardo-lm	1522/tcp	Ricardo North America License Manager
ricardo-lm	1522/udp	Ricardo North America License Manager
#		Mike Flemming <tmf@xnet.com>
cichild-lm	1523/tcp	cichild
cichild-lm	1523/udp	cichild
#		Andy Burgess <taab@cichlid.com>
ingreslock	1524/tcp	ingres
ingreslock	1524/udp	ingres
orasrv	1525/tcp	oracle
orasrv	1525/udp	oracle
prospero-np	1525/tcp	Prospero Directory Service non-priv
prospero-np	1525/udp	Prospero Directory Service non-priv
pdap-np	1526/tcp	Prospero Data Access Prot non-priv
pdap-np	1526/udp	Prospero Data Access Prot non-priv
#		B. Clifford Neuman <bcn@isi.edu>
tlisrv	1527/tcp	oracle
tlisrv	1527/udp	oracle
mcautoreg	1528/tcp	mcautoreg
mcautoreg	1528/udp	mcautoreg
#		John Klensin
<klensin@MAIL1.RESTON.MCI.NET>		
coauthor	1529/tcp	oracle
coauthor	1529/udp	oracle
rap-service	1530/tcp	rap-service
rap-service	1530/udp	rap-service
rap-listen	1531/tcp	rap-listen
rap-listen	1531/udp	rap-listen
#		Phil Servita <meister@ftp.com>
miroconnect	1532/tcp	miroconnect
miroconnect	1532/udp	miroconnect
#		Michael Fischer +49 531 21 13 0
virtual-places	1533/tcp	Virtual Places Software
virtual-places	1533/udp	Virtual Places Software

#		Ehud Shapiro <ltudi@ubique.co.il>
micromuse-lm	1534/tcp	micromuse-lm
micromuse-lm	1534/udp	micromuse-lm
#		Adam Kerrison <tadam@micromuse.co.uk>
ampr-info	1535/tcp	ampr-info
ampr-info	1535/udp	ampr-info
ampr-inter	1536/tcp	ampr-inter
ampr-inter	1536/udp	ampr-inter
#		Rob Janssen <trob@sys3.pelchl.ampr.org>
sdsc-lm	1537/tcp	isi-lm
sdsc-lm	1537/udp	isi-lm
#		Len Wanger <tlrw@sdsc.edu>
3ds-lm	1538/tcp	3ds-lm
3ds-lm	1538/udp	3ds-lm
#		Keith Trummel <tktrummel@autodesk.com>
intellistor-lm	1539/tcp	Intellistor License Manager
intellistor-lm	1539/udp	Intellistor License Manager
#		Ron Vaughn <lrv@intellistor.com>
rds	1540/tcp	rds
rds	1540/udp	rds
rds2	1541/tcp	rds2
rds2	1541/udp	rds2
#		Sudhakar Rajamannar <tmobius1@cerfnet.com>
gridgen-elmd	1542/tcp	gridgen-elmd
gridgen-elmd	1542/udp	gridgen-elmd
#		John R. Chawner +1 817 354-1004
simba-cs	1543/tcp	simba-cs
simba-cs	1543/udp	simba-cs
#		Betsy Alexander +1 604-681-4549
aspeclmd	1544/tcp	aspeclmd
aspeclmd	1544/udp	aspeclmd
#		V. Balaji <tbalaji@aspec.com>
vistium-share	1545/tcp	vistium-share
vistium-share	1545/udp	vistium-share
#		Allison Carleton <tacarleto@naper1.napervilleil.ncr.com>
abbaccuray	1546/tcp	abbaccuray
abbaccuray	1546/udp	abbaccuray
#		John Wendt 614-261-2000
laplink	1547/tcp	laplink
laplink	1547/udp	laplink
#		Michael Crawford <MichaelC@dev.travsoft.com>
axon-lm	1548/tcp	Axon License Manager
axon-lm	1548/udp	Axon License Manager
# Mark Pearce	<Mark_A..Pearce@AXON_Networks_Inc..@notes.axon.com>	
shivahose	1549/tcp	Shiva Hose
shivasound	1549/udp	Shiva Sound
#		Kin Chan <tkchan@shiva.com>
3m-image-lm	1550/tcp	Image Storage license manager 3M Company
3m-image-lm	1550/udp	Image Storage license manager 3M Company
#		J. C. Canessa <tjccanessa@mmm.com>
hecmtl-db	1551/tcp	HECMTL-DB
hecmtl-db	1551/udp	HECMTL-DB
#		Maxime Belanger <R173@hec.ca>
pciarray	1552/tcp	pciarray
pciarray	1552/udp	pciarray
#		Ron Folk <ltrfolkes@avl.com>
sna-cs	1553/tcp	sna-cs



sna-cs	1553/udp	sna-cs
#		Tony Sowter <ts@datcon.co.uk>
caci-lm	1554/tcp	CACI Products Company License Manager
caci-lm	1554/udp	CACI Products Company License Manager
#		Erik Blume <erikb@caciasl.com>
livelan	1555/tcp	livelan
livelan	1555/udp	livelan
#		khedayat@roadrunner.pictel.com <Kaynam Hedayat>
ashwin	1556/tcp	AshWin CI Technologies
ashwin	1556/udp	AshWin CI Technologies
#		Dave Neal <daven@ashwin.com>
arbortext-lm	1557/tcp	ArborText License Manager
arbortext-lm	1557/udp	ArborText License Manager
#		David J. Wilson <djwt@arbortext.com>
xingmpeg	1558/tcp	xingmpeg
xingmpeg	1558/udp	xingmpeg
#		Howard Gordon
		<thgordon@system.xingtech.com>
web2host	1559/tcp	web2host
web2host	1559/udp	web2host
#		Stephen Johnson <sjohnson@mindspring.com>
asci-val	1560/tcp	asci-val
asci-val	1560/udp	asci-val
#		Brian Schenkenberger
		<brians@advsyscon.com>
facilityview	1561/tcp	facilityview
facilityview	1561/udp	facilityview
#		Ed Green <tegreen@pmeasuring.com>
pconnectmgr	1562/tcp	pconnectmgr
pconnectmgr	1562/udp	pconnectmgr
#		Bob Kaiser <BKaiser@palindrome.com>
cadabra-lm	1563/tcp	Cadabra License Manager
cadabra-lm	1563/udp	Cadabra License Manager
#		Arthur Castonguay
		<arthurc@doe.carleton.ca>
pay-per-view	1564/tcp	Pay-Per-View
pay-per-view	1564/udp	Pay-Per-View
#		Brian Tung <brian@isi.edu>
winddlb	1565/tcp	WinDD
winddlb	1565/udp	WinDD
#		Kelly Sims <tkellys@garnet.wv.tek.com>
corelvideo	1566/tcp	CORELVIDEO
corelvideo	1566/udp	CORELVIDEO
#		Ming Poon <mingp@corel.ca>
jlicelmd	1567/tcp	jlicelmd
jlicelmd	1567/udp	jlicelmd
#		Christian Schormann <100410.3063@compuserve.com>
tsspmmap	1568/tcp	tsspmmap
tsspmmap	1568/udp	tsspmmap
#		Paul W. Nelson <tnelson@thursby.com>
ets	1569/tcp	ets
ets	1569/udp	ets
#		Carstein Seeberg <case@boole.no>
orbixd	1570/tcp	orbixd
orbixd	1570/udp	orbixd
#		Bridget Walsh <tbwalsh@iona.ie>
rdb-dbs-disp	1571/tcp	Oracle Remote Data Base

rdb-dbs-disp	1571/udp	Oracle Remote Data Base
#		<mailto:mackin@us.oracle.com>
chip-lm	1572/tcp	Chipcom License Manager
chip-lm	1572/udp	Chipcom License Manager
#		Jerry Natowitz <mailto:Jerry.Natowitz>
itscomm-ns	1573/tcp	itscomm-ns
itscomm-ns	1573/udp	itscomm-ns
#		Rich Thompson <mailto:richt@watson.ibm.com>
mvel-lm	1574/tcp	mvel-lm
mvel-lm	1574/udp	mvel-lm
#		David Bisset <mailto:dbisset@mvel.demon.co.uk>
oraclenames	1575/tcp	oraclenames
oraclenames	1575/udp	oraclenames
#		P.V.Shivkumar <mailto:PSHIVKUM@us.oracle.com>
moldflow-lm	1576/tcp	moldflow-lm
moldflow-lm	1576/udp	moldflow-lm
#		Paul Browne <mailto:browne@moldflow.com.au>
hypercube-lm	1577/tcp	hypercube-lm
hypercube-lm	1577/udp	hypercube-lm
#		Michael Moller <mailto:moller@hyper.hyper.com>
jacobus-lm	1578/tcp	Jacobus License Manager
jacobus-lm	1578/udp	Jacobus License Manager
#		Tony Cleveland
		<mailto:ttony.cleveland@jacobus.com>
ioc-sea-lm	1579/tcp	ioc-sea-lm
ioc-sea-lm	1579/tcp	ioc-sea-lm
#		Paul Nelson <mailto:tpaul@ioc-sea.com>
tn-tl-r1	1580/tcp	tn-tl-r1
tn-tl-r2	1580/udp	tn-tl-r2
#		Ed Kress <mailto:teskress@thinknet.com>
vmf-msg-port	1581/tcp	vmf-msg-port
vmf-msg-port	1581/udp	vmf-msg-port
#		Eric Whitehill <mailto:teawhiteh@itt.com>
msims	1582/tcp	MSIMS
msims	1582/udp	MSIMS
#		Glenn Olander <mailto:tgjo@msi.com>
simbaexpress	1583/tcp	simbaexpress
simbaexpress	1583/udp	simbaexpress
#		Betsy Alexander +1 604-681-4549
tn-tl-fd2	1584/tcp	tn-tl-fd2
tn-tl-fd2	1584/udp	tn-tl-fd2
#		Ed Kress <mailto:teskress@thinknet.com>
intv	1585/tcp	intv
intv	1585/udp	intv
#		Dermot Tynand <mailto:tdtynan@claddagh.ie>
ibm-abtact	1586/tcp	ibm-abtact
ibm-abtact	1586/udp	ibm-abtact
#		Sandeep K. Singhal
		<mailto:singhal@CS.Stanford.EDU>
pra_elmd	1587/tcp	pra_elmd
pra_elmd	1587/udp	pra_elmd
#		Dennis Mastin
		<mailto:dennis@tasmania.platte.com>
triquet-lm	1588/tcp	triquet-lm
triquet-lm	1588/udp	triquet-lm
#		Nand Kumar <mailto:tnkumar@triquet-da.com>
vqp	1589/tcp	VQP

vqp	1589/udp	VQP
#		Keith McCloghrie <ltkzm@cisco.com>
gemini-lm	1590/tcp	gemini-lm
gemini-lm	1590/udp	gemini-lm
#		Tony Sawyer <lttonys@gemtech.com>
ncpm-pm	1591/tcp	ncpm-pm
ncpm-pm	1591/udp	ncpm-pm
#		Ted Power <lttedp@hpinpcb.cup.hp.com>
commonspace	1592/tcp	commonspace
commonspace	1592/udp	commonspace
#		Rob Chandhok <ltchandhok@within.com>
mainsoft-lm	1593/tcp	mainsoft-lm
mainsoft-lm	1593/udp	mainsoft-lm
#		Anand Gangadharan
<ltanand@goa.mainsoft.com>		
sixtrak	1594/tcp	sixtrak
sixtrak	1594/udp	sixtrak
#		Bob Rennie <ltrjrennie@wizvax.net>
radio	1595/tcp	radio
radio	1595/udp	radio
radio-sm	1596/tcp	radio-sm
radio-bc	1596/udp	radio-bc
#		Ken Chapman <ltkchapman@isis.com>
orbplus-iiop	1597/tcp	orbplus-iiop
orbplus-iiop	1597/udp	orbplus-iiop
#		Robert A. Kukura <ltkukura@apollo.hp.com>
picknfs	1598/tcp	picknfs
picknfs	1598/udp	picknfs
#		John Lombardo <ltjohnl@picksys.com>
simbaservices	1599/tcp	simbaservices
simbaservices	1599/udp	simbaservices
#		Betsy Alexander +1 604-681-4549
issd	1600/tcp	
issd	1600/udp	
aas	1601/tcp	aas
aas	1601/udp	aas
#		Andy Schweig <ltaes@npr.legent.com>
inspect	1602/tcp	inspect
inspect	1602/udp	inspect
#		Frank O'Neill <ltfrank@morse.ilo.dec.com>
pickodbc	1603/tcp	pickodbc
pickodbc	1603/udp	pickodbc
#		John Lombardo <ltjohnl@picksys.com>
icabrowser	1604/tcp	icabrowser
icabrowser	1604/udp	icabrowser
#		Brad Pedersen <ltbradp@citrix.com>
slp	1605/tcp	Salutation Manager (Salutation Protocol)
slp	1605/udp	Salutation Manager (Salutation Protocol)
slm-api	1606/tcp	Salutation Manager (SLM-API)
slm-api	1606/udp	Salutation Manager (SLM-API)
#		Tohru Mori <lttmori@VNET.IBM.COM>
stt	1607/tcp	stt
stt	1607/udp	stt
#		Ryan Bolz <lttryanbo@microsoft.com>
smart-lm	1608/tcp	Smart Corp. License Manager
smart-lm	1608/udp	Smart Corp. License Manager
#		Connie Qiu <ltconnie@scdb.com>

isysg-lm	1609/tcp	isysg-lm
isysg-lm	1609/udp	isysg-lm
#		Adam Curtin <adam.curtin@isysg.com>
taurus-wh	1610/tcp	taurus-wh
taurus-wh	1610/udp	taurus-wh
#		Jeff Moffatt <jeff@taurus.com>
ill	1611/tcp	Inter Library Loan
ill	1611/udp	Inter Library Loan
#		Niall Murphy <niallm@orca.ucd.ie>
netbill-trans	1612/tcp	NetBill Transaction Server
netbill-trans	1612/udp	NetBill Transaction Server
netbill-keyrep	1613/tcp	NetBill Key Repository
netbill-keyrep	1613/udp	NetBill Key Repository
netbill-cred	1614/tcp	NetBill Credential Server
netbill-cred	1614/udp	NetBill Credential Server
netbill-auth	1615/tcp	NetBill Authorization Server
netbill-auth	1615/udp	NetBill Authorization Server
netbill-prod	1616/tcp	NetBill Product Server
netbill-prod	1616/udp	NetBill Product Server
#		Marvin Sirbu <sirbu+@andrew.cmu.edu>
nimrod-agent	1617/tcp	Nimrod Inter-Agent Communication
nimrod-agent	1617/udp	Nimrod Inter-Agent Communication
#		Charles Lynn <clynn@bbn.com>
skytelnet	1618/tcp	skytelnet
skytelnet	1618/udp	skytelnet
#		Byron Jones
		<BJONES@admiss.msmail.miami.edu>
xs-openstorage	1619/tcp	xs-openstorage
xs-openstorage	1619/udp	xs-openstorage
#		XuiS Software Ltd.
		<100322.2376@compuserve.com>
faxportwinport	1620/tcp	faxportwinport
faxportwinport	1620/udp	faxportwinport
#		Chris Wells <chris_wells@lansource.com>
softdataphone	1621/tcp	softdataphone
softdataphone	1621/udp	softdataphone
#		Dror Gill <drorgi@VNET.IBM.COM>
ontime	1622/tcp	ontime
ontime	1622/udp	ontime
#		Keith Rhodes 810-559-5955
jaleosnd	1623/tcp	jaleosnd
jaleosnd	1623/udp	jaleosnd
#		Christian Schormann <100410.3063@compuserve.com>
udp-sr-port	1624/tcp	udp-sr-port
udp-sr-port	1624/udp	udp-sr-port
#		Herb Jensen
		<HWJensen@nfsrv.avionics.itt.com>
svs-omagent	1625/tcp	svs-omagent
svs-omagent	1625/udp	svs-omagent
#		Alberto Berlen <taberlen@VNET.IBM.COM>
cncp	1636/tcp	CableNet Control Protocol
cncp	1636/udp	CableNet Control Protocol
cnap	1637/tcp	CableNet Admin Protocol
cnap	1637/udp	CableNet Admin Protocol
cnip	1638/tcp	CableNet Info Protocol

cnip	1638/udp	CableNet Info Protocol
#		Damian Hamill <ldamian@cablenet.net>
cert-initiator	1639/tcp	cert-initiator
cert-initiator	1639/udp	cert-initiator
cert-responder	1640/tcp	cert-responder
cert-responder	1640/udp	cert-responder
#		Tom Markson <markson@osmosys.incog.com>
invision	1641/tcp	InVision
invision	1641/udp	InVision
#		Christopher Davey <lniallocl@quay.ie>
isis-am	1642/tcp	isis-am
isis-am	1642/udp	isis-am
isis-ambc	1643/tcp	isis-ambc
isis-ambc	1643/udp	isis-ambc
#		Ken Chapman <tkchapman@isis.com>
saiseh	1644/tcp	Satellite-data Acquisition System 4
#		Bill Taylor <tsais@ssec.wisc.edu>
datametrics	1645/tcp	datametrics
datametrics	1645/udp	datametrics
#		Jerry Jongerius <jerryj@datametrics.com>
sa-msg-port	1646/tcp	sa-msg-port
sa-msg-port	1646/udp	sa-msg-port
#		Eric Whitehill <teawwhiteh@itt.com>
rsap	1647/tcp	rsap
rsap	1647/udp	rsap
#		Holger Reif
#		<Holger.Reif@prakinf.tu-ilmenau.de>
concurrent-lm	1648/tcp	concurrent-lm
concurrent-lm	1648/udp	concurrent-lm
#		Maggie Brinsford <mjb@concurrent.co.uk>
inspect	1649/tcp	inspect
inspect	1649/udp	inspect
#		Frank da Cruz <tfdc@watsun.cc.columbia.edu>
nkd	1650/tcp	
nkd	1650/udp	
shiva_confsvr	1651/tcp	shiva_confsvr
shiva_confsvr	1651/udp	shiva_confsvr
#		Mike Horowitz <mah@Shiva.COM>
xnmp	1652/tcp	xnmp
xnmp	1652/udp	xnmp
#		Ali Saleh <tscomm@cerf.net>
alphatech-lm	1653/tcp	alphatech-lm
alphatech-lm	1653/udp	alphatech-lm
#		Joseph Hauk <joseph.hauk@alphatech.com>
stargatealerts	1654/tcp	stargatealerts
stargatealerts	1654/udp	stargatealerts
#		Tim Coppernoll
#		<Tim.Coppernoll@ccm.jf.intel.com>
dec-mbadmin	1655/tcp	dec-mbadmin
dec-mbadmin	1655/udp	dec-mbadmin
dec-mbadmin-h	1656/tcp	dec-mbadmin-h
dec-mbadmin-h	1656/udp	dec-mbadmin-h
#		Nick Shipman
		<Nick.Shipman@mrnog.reo.dec.com>
fujitsu-mmpdc	1657/tcp	fujitsu-mmpdc
fujitsu-mmpdc	1657/udp	fujitsu-mmpdc
#		Katsumi Oomuro <NAE01421@niftyserve.or.jp>

sixnetudr	1658/tcp	sixnetudr
sixnetudr	1658/udp	sixnetudr
#		Bob Rennie <trjrennie@wizvax.net>
sg-lm	1659/tcp	Silicon Grail License Manager
sg-lm	1659/udp	Silicon Grail License Manager
#		William R Bishop <ltwrb@world.std.com>
skip-mc-gikreq	1660/tcp	skip-mc-gikreq
skip-mc-gikreq	1660/udp	skip-mc-gikreq
#		Tom Markson <ltmarkson@osmosys.incog.com>
netview-aix-1	1661/tcp	netview-aix-1
netview-aix-1	1661/udp	netview-aix-1
netview-aix-2	1662/tcp	netview-aix-2
netview-aix-2	1662/udp	netview-aix-2
netview-aix-3	1663/tcp	netview-aix-3
netview-aix-3	1663/udp	netview-aix-3
netview-aix-4	1664/tcp	netview-aix-4
netview-aix-4	1664/udp	netview-aix-4
netview-aix-5	1665/tcp	netview-aix-5
netview-aix-5	1665/udp	netview-aix-5
netview-aix-6	1666/tcp	netview-aix-6
netview-aix-6	1666/udp	netview-aix-6
netview-aix-7	1667/tcp	netview-aix-7
netview-aix-7	1667/udp	netview-aix-7
netview-aix-8	1668/tcp	netview-aix-8
netview-aix-8	1668/udp	netview-aix-8
netview-aix-9	1669/tcp	netview-aix-9
netview-aix-9	1669/udp	netview-aix-9
netview-aix-10	1670/tcp	netview-aix-10
netview-aix-10	1670/udp	netview-aix-10
netview-aix-11	1671/tcp	netview-aix-11
netview-aix-11	1671/udp	netview-aix-11
netview-aix-12	1672/tcp	netview-aix-12
netview-aix-12	1672/udp	netview-aix-12
#		Martha Crisson <ltCRISSON@ralvm12.vnet.ibm.com>
proshare-mc-1	1673/tcp	Intel Proshare Multicast
proshare-mc-1	1673/udp	Intel Proshare Multicast
proshare-mc-2	1674/tcp	Intel Proshare Multicast
proshare-mc-2	1674/udp	Intel Proshare Multicast
#		Mark Lewis <ltMark_Lewis@ccm.jf.intel.com>
pdp	1675/tcp	Pacific Data Products
pdp	1675/udp	Pacific Data Products
#		Gary Morton <ltmorton@pacdata.com>
netcomm1	1676/tcp	netcomm1
netcomm2	1676/udp	netcomm2
#		Bulent Kasman <ltBKasman@symantec.com>
groupwise	1677/tcp	groupwise
groupwise	1677/udp	groupwise
#		Brent Bradshaw <ltbbradshaw@novell.com>
prolink	1678/tcp	prolink
prolink	1678/udp	prolink
#		Brian Abramson <ltbrianab@soul.tv.tek.com>
darcorp-lm	1679/tcp	darcorp-lm
darcorp-lm	1679/udp	darcorp-lm
#		<ltDARcorp@aol.com>
microcom-sbp	1680/tcp	microcom-sbp
microcom-sbp	1680/udp	microcom-sbp

#		Boris B. Maiden
<Boris_Maiden@smtp.microcom.com>		
sd-elmd	1681/tcp	sd-elmd
sd-elmd	1681/udp	sd-elmd
#		Bryan Otey <bwo@softdesk.com>
lanyon-lantern	1682/tcp	lanyon-lantern
lanyon-lantern	1682/udp	lanyon-lantern
#		Robin Lewis <trobin.lewis@lanyon.com>
ncpm-hip	1683/tcp	ncpm-hip
ncpm-hip	1683/udp	ncpm-hip
#		Ken Hearn <thearn@hpindacx.cup.hp.com>
snaresecure	1684/tcp	SnareSecure
snaresecure	1684/udp	SnareSecure
#		Marty Batchelder <marty@capres.com>
n2nremote	1685/tcp	n2nremote
n2nremote	1685/udp	n2nremote
#		Kin Chan <tkchan@net2net.com>
cvmon	1686/tcp	cvmon
cvmon	1686/udp	cvmon
#		Carol Ann Krug
<carolann@hpmfas3.cup.hp.com>		
nsjtp-ctrl	1687/tcp	nsjtp-ctrl
nsjtp-ctrl	1687/udp	nsjtp-ctrl
nsjtp-data	1688/tcp	nsjtp-data
nsjtp-data	1688/udp	nsjtp-data
#		Orazio Granato <tog@wsbgrd01.italy.hp.com>
firefox	1689/tcp	firefox
firefox	1689/udp	firefox
#		Mark S. Edwards <marke@firefox.co.uk>
ng-umds	1690/tcp	ng-umds
ng-umds	1690/udp	ng-umds
#		Louis E. Simard
<76400.3371@compuserve.com>		
empire-empuma	1691/tcp	empire-empuma
empire-empuma	1691/udp	empire-empuma
#		Bobby Krupczak <trdk@empiretech.com>
sstsys-lm	1692/tcp	sstsys-lm
sstsys-lm	1692/udp	sstsys-lm
#		Yih-Wu Wang <ssstsys@ix.netcom.com>
rrirtr	1693/tcp	rrirtr
rrirtr	1693/udp	rrirtr
rrimwm	1694/tcp	rrimwm
rrimwm	1694/udp	rrimwm
rrilwm	1695/tcp	rrilwm
rrilwm	1695/udp	rrilwm
rrifmm	1696/tcp	rrifmm
rrifmm	1696/udp	rrifmm
rrisat	1697/tcp	rrisat
rrisat	1697/udp	rrisat
#		Allen Briggs <briggs@access.rrinc.com>
rsvp-encap-1	1698/tcp	RSVP-ENCAPSULATION-1
rsvp-encap-1	1698/udp	RSVP-ENCAPSULATION-1
rsvp-encap-2	1699/tcp	RSVP-ENCAPSULATION-2
rsvp-encap-2	1699/udp	RSVP-ENCAPSULATION-2
#		Bob Braden <braden@isi.edu>
mps-raft	1700/tcp	mps-raft
mps-raft	1700/udp	mps-raft

#		Jason Leupen <Jleupen@aol.com>
l2f	1701/tcp	l2f
l2f	1701/udp	l2f
#		Andy Valencia <tvandys@vandys-
lap.cisco.com>		
deskshare	1702/tcp	deskshare
deskshare	1702/udp	deskshare
#		Sarah Thompson <tsarah@telergy.com
hb-engine	1703/tcp	hb-engine
hb-engine	1703/udp	hb-engine
#		Charles C.L. Chou <tcchou@zoom.com>
bcs-broker	1704/tcp	bcs-broker
bcs-broker	1704/udp	bcs-broker
#		Andy Warner <tandyw@knoware.nl>
slingshot	1705/tcp	slingshot
slingshot	1705/udp	slingshot
#		Paul Groarke <tpaulg@quay.ie>
jetform	1706/tcp	jetform
jetform	1706/udp	jetform
#		gdeinsta <tgdeinsta@jetform.com>
vdmplay	1707/tcp	vdmplay
vdmplay	1707/udp	vdmplay
#		Vadim Lebedev <tvadim@magic.fr>
gat-lmd	1708/tcp	gat-lmd
gat-lmd	1708/udp	gat-lmd
#		Igor Zaoutine <tigor@global-tech.com>
centra	1709/tcp	centra
centra	1709/udp	centra
#		Drew Wolff <tdwolff@centra.net>
impera	1710/tcp	impera
impera	1710/udp	impera
#		Kirmo Wilen <tkwilen@cst.fi>
pptconference	1711/tcp	pptconference
pptconference	1711/udp	pptconference
#		John Tafoya <tjohnt@microsoft.com>
registrar	1712/tcp	resource monitoring service
registrar	1712/udp	resource monitoring service
#		Ron Lawson <tronaldl@hpindacx.cup.hp.com>
conferencetalk	1713/tcp	ConferenceTalk
conferencetalk	1713/udp	ConferenceTalk
#		George Kajos
<tgkajos@mail1.videoserver.com>		
sesi-lm	1714/tcp	sesi-lm
sesi-lm	1714/udp	sesi-lm
houdini-lm	1715/tcp	houdini-lm
houdini-lm	1715/udp	houdini-lm
#		Paul Breslin <tphb@SIDEFX.COM>
xmsg	1716/tcp	xmsg
xmsg	1716/udp	xmsg
#		Mark E. Fogle <tmefogle@xantel.com>
fj-hdnet	1717/tcp	fj-hdnet
fj-hdnet	1717/udp	fj-hdnet
#		Manabu Makino <tm-
makino@ael.fujitsu.co.jp>		
h323gatedisc	1718/tcp	h323gatedisc
h323gatedisc	1718/udp	h323gatedisc
h323gatestat	1719/tcp	h323gatestat



h323gatestat	1719/udp	h323gatestat
h323hostcall	1720/tcp	h323hostcall
h323hostcall	1720/udp	h323hostcall
#		Jim Toga <jtoga@ibeam.jf.intel.com>
caicci	1721/tcp	caicci
caicci	1721/udp	caicci
#		Sylvia Scheuren <tschsy02@cai.com>
hks-lm	1722/tcp	HKS License Manager
hks-lm	1722/udp	HKS License Manager
#		Michael Wood <twood@althea.hks.com>
pptp	1723/tcp	pptp
pptp	1723/udp	pptp
#		Ken Crocker <tkcrocker@microsoft.com>
csbphonemaster	1724/tcp	csbphonemaster
csbphonemaster	1724/udp	csbphonemaster
#		Mark Kellerhuis <Mark_Kellerhuis@msn.com>
iden-ralp	1725/tcp	iden-ralp
iden-ralp	1725/udp	iden-ralp
#		Chris Stanaway <stanaway@comm.mot.com>
iberiagames	1726/tcp	IBERIAGAMES
iberiagames	1726/tcp	IBERIAGAMES
#		Jose Luis <73374.313@compuserve.com>
winddx	1727/tcp	winddx
winddx	1727/udp	winddx
#		Bill Andrews <tbilla@vnd.tek.com>
telindus	1728/tcp	TELINDUS
telindus	1728/udp	TELINDUS
#		Paul Pyck <papy@telindus.be>
citynl	1729/tcp	CityNL License Management
citynl	1729/udp	CityNL License Management
#		CityDisc <citydisc@euronet.nl>
roketz	1730/tcp	roketz
roketz	1730/udp	roketz
#		Ahti Heinla <ahti@ahiti.blumoon.ee>
msiccp	1731/tcp	MSICCP
msiccp	1731/udp	MSICCP
#		Max Morris <maxm@MICROSOFT.com>
proxim	1732/tcp	proxim
proxim	1732/udp	proxim
#		Srinivas N. Mogalapalli
<tsrinivas@proxim.com>		
sipat	1733/tcp	sipat
sipat	1733/udp	sipat
#		Steve Ryckman <sryckman@pobox.com>
cambertx-lm	1734/tcp	Camber Corporation License Management
cambertx-lm	1734/udp	Camber Corporation License Management
#		Jeannie Burleson <jeannie@cambertx.com>
privatechat	1735/tcp	PrivateChat
privatechat	1735/udp	PrivateChat
#		Louis E. Simard
<76400.3371@CompuServe.COM>		
street-stream	1736/tcp	street-stream
street-stream	1736/udp	street-stream
#		Glenn Levitt <streetdl@ix.netcom.com>
ultimad	1737/tcp	ultimad
ultimad	1737/udp	ultimad

#		(Michael Lanzetta
&lthagbard@ultimatech.com>		
gamegen1	1738/tcp	GameGen1
gamegen1	1738/udp	GameGen1
#		Glen Pearson &lt;GlenP@multigen.com>
webaccess	1739/tcp	webaccess
webaccess	1739/udp	webaccess
#		Christian Saether
&lt;ChristianS@asymetrix.com>		
encore	1740/tcp	encore
encore	1740/udp	encore
#		Stuart Button &lt;button@promis.com>
cisco-net-mgmt	1741/tcp	cisco-net-mgmt
cisco-net-mgmt	1741/udp	cisco-net-mgmt
#		John McCormack &lt;jmac@cisco.com>
3Com-nsd	1742/tcp	3Com-nsd
3Com-nsd	1742/udp	3Com-nsd
#		Nitza Steinberg &lt;nitza@isd.3com.com>
cinegrfx-lm	1743/tcp	Cinema Graphics License Manager
cinegrfx-lm	1743/udp	Cinema Graphics License Manager
#		Rodney Iwashina &lt;rodney@cyclone.rfx.com>
ncpm-ft	1744/tcp	ncpm-ft
ncpm-ft	1744/udp	ncpm-ft
#		Ken Hearn &lt;thearn@hpindacx.cup.hp.com>
remote-winsock	1745/tcp	remote-winsock
remote-winsock	1745/udp	remote-winsock
#		Arnold Miller &lt;arnoldm@MICROSOFT.com>
ftrapid-1	1746/tcp	ftrapid-1
ftrapid-1	1746/udp	ftrapid-1
ftrapid-2	1747/tcp	ftrapid-2
ftrapid-2	1747/udp	ftrapid-2
#		Richard J. Williams
&lt;RJW1@trpo4.tr.unisys.com>		
oracle-em1	1748/tcp	oracle-em1
oracle-em1	1748/udp	oracle-em1
#		Bob Purvy &lt;bpurvy@us.oracle.com>
aspen-services	1749/tcp	aspen-services
aspen-services	1749/udp	aspen-services
#		Mark B. Hurst &lt;mhurst@aspenres.com>
sslp	1750/tcp	Simple Socket Library's PortMaster
sslp	1750/udp	Simple Socket Library's PortMaster
#		Dr. Charles E. Campbell Jr.
#		&lt;cec@gryphon.gsfc.nasa.gov>
swiftnet	1751/tcp	SwiftNet
swiftnet	1751/udp	SwiftNet
#		Terry Lim &lt;tktl@pentek.com>
lofr-lm	1752/tcp	Leap of Faith Research License Manager
lofr-lm	1752/udp	Leap of Faith Research License Manager
#		
translogic-lm	1753/tcp	Translogic License Manager
translogic-lm	1753/udp	Translogic License Manager
#		Stan Dallas &lt;stan@translogic.com>
oracle-em2	1754/tcp	oracle-em2
oracle-em2	1754/udp	oracle-em2
#		Bob Purvy &lt;bpurvy@us.oracle.com>
ms-streaming	1755/tcp	ms-streaming
ms-streaming	1755/udp	ms-streaming

#		Bret O'Rourke
capfast-lmd	1756/tcp	capfast-lmd
capfast-lmd	1756/udp	capfast-lmd
#		Chuck Neal <ltchuck@phase3.com>
cnhrp	1757/tcp	cnhrp
cnhrp	1757/udp	cnhrp
#		William Stoye <ltwstoye@atml.co.uk>
tftp-mcast	1758/tcp	tftp-mcast
tftp-mcast	1758/udp	tftp-mcast
#		Tom Emberson <lttom@lanworks.com>
spss-lm	1759/tcp	SPSS License Manager
spss-lm	1759/udp	SPSS License Manager
#		Tex Hull <lttex@spss.com>
www-ldap-gw	1760/tcp	www-ldap-gw
www-ldap-gw	1760/udp	www-ldap-gw
#		Nick Emery
		<ltNick.Emery@altavista.digital.com>
cft-0	1761/tcp	cft-0
cft-0	1761/udp	cft-0
cft-1	1762/tcp	cft-1
cft-1	1762/udp	cft-1
cft-2	1763/tcp	cft-2
cft-2	1763/udp	cft-2
cft-3	1764/tcp	cft-3
cft-3	1764/udp	cft-3
cft-4	1765/tcp	cft-4
cft-4	1765/udp	cft-4
cft-5	1766/tcp	cft-5
cft-5	1766/udp	cft-5
cft-6	1767/tcp	cft-6
cft-6	1767/udp	cft-6
cft-7	1768/tcp	cft-7
cft-7	1768/udp	cft-7
#		Martine Marchand 16 1 46 59 24 84
bmc-net-adm	1769/tcp	bmc-net-adm
bmc-net-adm	1769/udp	bmc-net-adm
#		Cameron Haight <ltcameron_haight@bmc.com>
bmc-net-svc	1770/tcp	bmc-net-svc
bmc-net-svc	1770/udp	bmc-net-svc
#		Cameron Haight
		<ltcameron_haight@bmc.com>>bmc-net-svc
vaultbase	1771/tcp	vaultbase
vaultbase	1771/udp	vaultbase
#		Jose A. Segin <ltsesin@vaultbase.com>
essweb-gw	1772/tcp	EssWeb Gateway
essweb-gw	1772/udp	EssWeb Gateway
#		Bob Nattenberg
		<ltbnattenberg@arborsoft.com>
kmscontrol	1773/tcp	KMSControl
kmscontrol	1773/udp	KMSControl
#		Roy Chastain <ltroy@kmsys.com>
global-dtserv	1774/tcp	global-dtserv
global-dtserv	1774/udp	global-dtserv
#		Nicholas Davies
		<ltN.Davies@globalcomm.co.uk>
#	1775/tcp	
199z		

femis	1776/tcp	Federal Emergency Management Information
System		
femis	1776/udp	Federal Emergency Management Information
System		
#		Larry Gerhardstein
&lt;ltlh_gerhardstein@pnl.gov>		
powerguardian	1777/tcp	powerguardian
powerguardian	1777/udp	powerguardian
#		Charles Bennett &lt;chuck@benatong.com>
prodigy-internet	1778/tcp	prodigy-internet
prodigy-internet	1778/udp	prodigy-internet
#		Bob Dedrick &lt;bob@staff.prodigy.com>
pharmasoft	1779/tcp	pharmasoft
pharmasoft	1779/udp	pharmasoft
#		Ola Strandberg
&lt;Ola.Strandberg@pharmasoft.se>		
dpkeyserv	1780/tcp	dpkeyserv
dpkeyserv	1780/udp	dpkeyserv
#		Yasunari Gon Yamasita
&lt;yamasita@omronsoft.co.jp>		
answersoft-lm	1781/tcp	answersoft-lm
answersoft-lm	1781/udp	answersoft-lm
#		James A. Brewster
&lt;jimbrew@answersoft.com>		
hp-hcip	1782/tcp	hp-hcip
hp-hcip	1782/udp	hp-hcip
#		Allen Baker &lt;abaker@boi.hp.com>
fjris	1783/tcp	Fujitsu Remote Install Service
fjris	1783/udp	Fujitsu Remote Install Service
#		Naohito Nakamura
#		&lt;naonao@kikaku.mmp.fujitsu.co.jp>
finle-lm	1784/tcp	Finle License Manager
finle-lm	1784/udp	Finle License Manager
#		Dongling Wang &lt;dongling@finle.com>
windlm	1785/tcp	Wind River Systems License Manager
windlm	1785/udp	Wind River Systems License Manager
#		Will Dere &lt;will@wrs.com>
funk-logger	1786/tcp	funk-logger
funk-logger	1786/udp	funk-logger
funk-license	1787/tcp	funk-license
funk-license	1787/udp	funk-license
#		Cimarron Boozer &lt;cboozer@funk.com>
#		Eric Wilde &lt;eric@funk.com>
psmond	1788/tcp	psmond
psmond	1788/udp	psmond
#		Will Golson &lt;golson@fc.hp.com>
hello	1789/tcp	hello
hello	1789/udp	hello
#		D. J. Bernstein
&lt;djb@koobera.math.uic.edu>		
nmisp	1790/tcp	Narrative Media Streaming Protocol
nmisp	1790/udp	Narrative Media Streaming Protocol
#		Paul Santinelli, Jr.
&lt;psantinelli@narrative.com>		
ea1	1791/tcp	EA1
ea1	1791/udp	EA1
#		Kirk MacLean &lt;kmaclean@ea.com>

ibm-dt-2	1792/tcp	ibm-dt-2
ibm-dt-2	1792/udp	ibm-dt-2
#		Sam Borman <tsam_borman@uk.ibm.com>
rsc-robot	1793/tcp	rsc-robot
rsc-robot	1793/udp	rsc-robot
#		Andrew Jay Schneider <taj@relsoft.com>
cera-bcm	1794/tcp	cera-bcm
cera-bcm	1794/udp	cera-bcm
#		Leo Moesgaard <leo_moesgaard@dk.ibm.com>
dpi-proxy	1795/tcp	dpi-proxy
dpi-proxy	1795/udp	dpi-proxy
#		Charles Gordon <tcgordon@digprod.com>
vocaltec-admin	1796/tcp	Vocaltec Server Administration
vocaltec-admin	1796/udp	Vocaltec Server Administration
#		Scott Petrack
		<Scott_Petrack@vocaltec.com>
uma	1797/tcp	UMA
uma	1797/udp	UMA
#		Martin Kirk <tm.kirk@opengroup.org>
etp	1798/tcp	Event Transfer Protocol
etp	1798/udp	Event Transfer Protocol
#		Mike Wray <tmjw@hplb.hpl.hp.com>
netrisk	1799/tcp	NETRISK
netrisk	1799/udp	NETRISK
#		Kevin Green <Kevin.Green@tds.com>
ansys-lm	1800/tcp	ANSYS-License manager
ansys-lm	1800/udp	ANSYS-License manager
#		Suzanne Lorrin <tsml@ansyspo.ansys.com>
msmq	1801/tcp	Microsoft Message Que
msmq	1801/udp	Microsoft Message Que
#		Amnon Horowitz <amnonh@MICROSOFT.com>
concomp1	1802/tcp	ConComp1
concomp1	1802/udp	ConComp1
#		Ed Vincent <edv@concomp.com>
hp-hcip-gwy	1803/tcp	HP-HCIP-GWY
hp-hcip-gwy	1803/udp	HP-HCIP-GWY
#		Allen Baker <tabaker@boi.hp.com>
enl	1804/tcp	ENL
enl	1804/udp	ENL
#		Brian Olson <Olson@smg.seagate.com>
enl-name	1805/tcp	ENL-Name
enl-name	1805/udp	ENL-Name
#		Brain Olson <Olson@smg.seagate.com>
musiconline	1806/tcp	Musiconline
musiconline	1806/udp	Musiconline
#		Craig Weeks <tcweeks@syspace.co.uk>
fhsp	1807/tcp	Fujitsu Hot Standby Protocol
fhsp	1807/udp	Fujitsu Hot Standby Protocol
#		Eiki Iwata (eiki@nd.net.fujitsu.co.jp)
oracle-vp2	1808/tcp	Oracle-VP2
oracle-vp2	1808/udp	Oracle-VP2
#		Craig Fowler <tcfowler@us.oracle.com>
oracle-vp1	1809/tcp	Oracle-VP1
oracle-vp1	1809/udp	Oracle-VP1
#		Craig Fowler <tcfowler@us.oracle.com>
jerand-lm	1810/tcp	Jerand License Manager
jerand-lm	1810/udp	Jerand License Manager

#		Robert Monat <rtjerand@jerand.com>
scientia-sdb	1811/tcp	Scientia-SDB
scientia-sdb	1811/udp	Scientia-SDB
#		Ian Miller <Ian_Miller@scientia.com>
radius	1812/tcp	RADIUS
radius	1812/udp	RADIUS
#		Carl Rigney <rtcdr@livingston.com>
radius-acct	1813/tcp	RADIUS Accounting
radius-acct	1813/udp	RADIUS Accounting
#		Carl Rigney <rtcdr@livingston.com>
tdp-suite	1814/tcp	TDP Suite
tdp-suite	1814/udp	TDP Suite
#		Rob Lockhart <rtrob.lockhart@mot.com>
mmpft	1815/tcp	MMPFT
mmpft	1815/udp	MMPFT
#		Ralf Muckenhirn <rtFAX: 49-7622-398200>
#		<rtPhone: 49-7622-3980>
#	1814-1817	Unassigned
etftp	1818/tcp	Enhanced Trivial File Transfer Protocol
etftp	1818/udp	Enhanced Trivial File Transfer Protocol
#		William Polites <rtwpolites@mitre.org>
plato-lm	1819/tcp	Plato License Manager
plato-lm	1819/udp	Plato License Manager
#		Mark Morris <rtmim@ermuk.com>
mcagent	1820/tcp	mcagent
mcagent	1820/udp	mcagent
#		Ryoichi Shinohara
<rtshinohara@VNET.IBM.COM>		
donnyworld	1821/tcp	donnyworld
donnyworld	1821/udp	donnyworld
#		Don Oliver <rtldon@donnyworld.com>
es-elmd	1822/tcp	es-elmd
es-elmd	1822/udp	es-elmd
#		David Duncan <rtdduncan@es.com>
unisys-lm	1823/tcp	Unisys Natural Language License Manager
unisys-lm	1823/udp	Unisys Natural Language License Manager
#		Raymond A. Diedrichs
<rttrayd@slu.tr.unisys.com>		
metrics-pas	1824/tcp	metrics-pas
metrics-pas	1824/udp	metrics-pas
#		Tom Haapanen <rttomh@metrics.com>
#	1825-1900	Unassigned
fjicl-tep-a	1901/tcp	Fujitsu ICL Terminal Emulator Program A
fjicl-tep-a	1901/udp	Fujitsu ICL Terminal Emulator Program A
#		Bob Lyon <rtbl@oasis.icl.co.uk>
fjicl-tep-b	1902/tcp	Fujitsu ICL Terminal Emulator Program B
fjicl-tep-b	1902/udp	Fujitsu ICL Terminal Emulator Program B
#		Bob Lyon <rtbl@oasis.icl.co.uk>
linkname	1903/tcp	Local Link Name Resolution
linkname	1903/udp	Local Link Name Resolution
#		Dan Harrington <rtldth@lucent.com>
fjicl-tep-c	1904/tcp	Fujitsu ICL Terminal Emulator Program C
fjicl-tep-c	1904/udp	Fujitsu ICL Terminal Emulator Program C
#		Bob Lyon <rtbl@oasis.icl.co.uk>
sugp	1905/tcp	Secure UP.Link Gateway Protocol
sugp	1905/udp	Secure UP.Link Gateway Protocol
#		Peter King <rtking@uplanet.com>

tpmd	1906/tcp	TPortMapperReq
tpmd	1906/udp	TPortMapperReq
#		Sheila Devins <tsheila_devins@VNET.IBM.COM>
intrastar	1907/tcp	IntraSTAR
intrastar	1907/udp	IntraSTAR
#		Peter Schoenberger <tps@teles.de>
dawn	1908/tcp	Dawn
dawn	1908/udp	Dawn
#		Michael Crawford <michaelc@travsoft.com>
global-wlink	1909/tcp	Global World Link
global-wlink	1909/udp	Global World Link
#		Nicholas Davies <N.Davies@globalcomm.co.uk>
#	1908-1910	Unassigned
mtp	1911/tcp	Starlight Networks Multimedia Transport
Protocol		
mtp	1911/tcp	Starlight Networks Multimedia Transport
Protocol		
#		Bruce Lieberman
<brucel@iserver.starlight.com>		
	1912	Unassigned
#		Tom Lake <ttlake@m-ware.com>
armadp	1913/tcp	armadp
armadp	1913/udp	armadp
#		Kevin Welton <Kevin.Welton@armltd.co.uk>
elm-momentum	1914/tcp	Elm-Momentum
elm-momentum	1914/udp	Elm-Momentum
#		Willie Wu <twillie@mds.com>
facelink	1915/tcp	FACELINK
facelink	1915/udp	FACELINK
#		J.H. Hermans <j.h.hermans@hiscom.nl>
persoft	1916/tcp	Persoft Persona
persoft	1916/udp	Persoft Persona
#		Tom Spidell <tspidell@persoft.com>
noagent	1917/tcp	nOAgent
noagent	1917/udp	nOAgent
#		Martin Bestman <martin@datawatch.de>
can-nds	1918/tcp	Candle Directory Service - NDS
can-nds	1918/udp	Candle Directory Service - NDS
can-dch	1919/tcp	Candle Directory Service - DCH
can-dch	1919/udp	Candle Directory Service - DCH
can-ferret	1920/tcp	Candle Directory Service - FERRET
can-ferret	1920/udp	Candle Directory Service - FERRET
#		Dannis Yang <Dannis_Yang@candle.com>
#	1921-1943	Unassigned
close-combat	1944/tcp	close-combat
close-combat	1944/udp	close-combat
#		David Hua <dthua@microsoft.com>
dialogic-elmd	1945/tcp	dialogic-elmd
dialogic-elmd	1945/udp	dialogic-elmd
#		Roger Kay <tr.kay@nz.dialogic.com>
tekpls	1946/tcp	tekpls
tekpls	1946/udp	tekpls
#		Brian Abramson <brianab@vnd.tek.com>
hlserver	1947/tcp	hlserver
hlserver	1947/udp	hlserver
#		Michael Zzunke <mzunke@fast-ag.de>
eye2eye	1948/tcp	eye2eye

eye2eye	1948/udp	eye2eye
#		Trevor Bell <Trevor@iguana.iosoftware.com>
ismaeasdaqlive	1949/tcp	ISMA Easdaq Live
ismaeasdaqlive	1949/udp	ISMA Easdaq Live
ismaeasdaqtest	1950/tcp	ISMA Easdaq Test
ismaeasdaqtest	1950/udp	ISMA Easdaq Test
#		Stephen Dunne <tsdun@isma.co.uk>
bcs-lmserver	1951/tcp	bcs-lmserver
bcs-lmserver	1951/udp	bcs-lmserver
#		Andy Warner <tandyw@knoware.nl>
#	1952-1972	Unassigned
dlsrap	1973/tcp	Data Link Switching Remote Access Protocol
dlsrap	1973/udp	Data Link Switching Remote Access Protocol
#		Steve T. Chiang <tschiang@cisco.com>
#	1974-1984	Unassigned
foliocorp	1985/tcp	Folio Remote Server
foliocorp	1985/udp	Folio Remote Server
#		Eric Isom <teisom@folio.com>
licensedaemon	1986/tcp	cisco license management
licensedaemon	1986/udp	cisco license management
tr-rsrb-p1	1987/tcp	cisco RSRB Priority 1 port
tr-rsrb-p1	1987/udp	cisco RSRB Priority 1 port
tr-rsrb-p2	1988/tcp	cisco RSRB Priority 2 port
tr-rsrb-p2	1988/udp	cisco RSRB Priority 2 port
tr-rsrb-p3	1989/tcp	cisco RSRB Priority 3 port
tr-rsrb-p3	1989/udp	cisco RSRB Priority 3 port
#PROBLEMS!=====		
mshnet	1989/tcp	MHSnet system
mshnet	1989/udp	MHSnet system
#		Bob Kummerfeld <tbob@sarad.cs.su.oz.au>
#PROBLEMS!=====		
stun-p1	1990/tcp	cisco STUN Priority 1 port
stun-p1	1990/udp	cisco STUN Priority 1 port
stun-p2	1991/tcp	cisco STUN Priority 2 port
stun-p2	1991/udp	cisco STUN Priority 2 port
stun-p3	1992/tcp	cisco STUN Priority 3 port
stun-p3	1992/udp	cisco STUN Priority 3 port
#PROBLEMS!=====		
ipsendmsg	1992/tcp	IPsendmsg
ipsendmsg	1992/udp	IPsendmsg
#		Bob Kummerfeld <tbob@sarad.cs.su.oz.au>
#PROBLEMS!=====		
snmp-tcp-port	1993/tcp	cisco SNMP TCP port
snmp-tcp-port	1993/udp	cisco SNMP TCP port
stun-port	1994/tcp	cisco serial tunnel port
stun-port	1994/udp	cisco serial tunnel port
perf-port	1995/tcp	cisco perf port
perf-port	1995/udp	cisco perf port
tr-rsrb-port	1996/tcp	cisco Remote SRB port
tr-rsrb-port	1996/udp	cisco Remote SRB port
gdp-port	1997/tcp	cisco Gateway Discovery Protocol
gdp-port	1997/udp	cisco Gateway Discovery Protocol
x25-svc-port	1998/tcp	cisco X.25 service (XOT)
x25-svc-port	1998/udp	cisco X.25 service (XOT)
tcp-id-port	1999/tcp	cisco identification port
tcp-id-port	1999/udp	cisco identification port
callbook	2000/tcp	



callbook	2000/udp	
dc	2001/tcp	
wizard	2001/udp	curry
globe	2002/tcp	
globe	2002/udp	
mailbox	2004/tcp	
emce	2004/udp	CCWS mm conf
berknet	2005/tcp	
oracle	2005/udp	
invokator	2006/tcp	
raid-cc	2006/udp	raid
dectalk	2007/tcp	
raid-am	2007/udp	
conf	2008/tcp	
terminaldb	2008/udp	
news	2009n/tcp	
whosockami	2009/udp	
search	2010/tcp	
pipe_server	2010/udp	
raid-cc	2011/tcp	raid
servserv	2011/udp	
ttyinfo	2012/tcp	
raid-ac	2012/udp	
raid-am	2013/tcp	
raid-cd	2013/udp	
troff	2014/tcp	
raid-sf	2014/udp	
cypress	2015/tcp	
raid-cs	2015/udp	
bootserver	2016/tcp	
bootserver	2016/udp	
cypress-stat	2017/tcp	
bootclient	2017/udp	
terminaldb	2018/tcp	
rellpack	2018/udp	
whosockami	2019/tcp	
about	2019/udp	
xinupageserver	2020/tcp	
xinupageserver	2020/udp	
servexec	2021/tcp	
xinuexpansion1	2021/udp	
down	2022/tcp	
xinuexpansion2	2022/udp	
xinuexpansion3	2023/tcp	
xinuexpansion3	2023/udp	
xinuexpansion4	2024/tcp	
xinuexpansion4	2024/udp	
ellpack	2025/tcp	
xribs	2025/udp	
scrabble	2026/tcp	
scrabble	2026/udp	
shadowserver	2027/tcp	
shadowserver	2027/udp	
submitserver	2028/tcp	
submitserver	2028/udp	
device2	2030/tcp	
device2	2030/udp	

blackboard	2032/tcp	
blackboard	2032/udp	
glogger	2033/tcp	
glogger	2033/udp	
scoremgr	2034/tcp	
scoremgr	2034/udp	
imsldoc	2035/tcp	
imsldoc	2035/udp	
objectmanager	2038/tcp	
objectmanager	2038/udp	
lam	2040/tcp	
lam	2040/udp	
interbase	2041/tcp	
interbase	2041/udp	
isis	2042/tcp	isis
isis	2042/udp	isis
isis-bcast	2043/tcp	isis-bcast
isis-bcast	2043/udp	isis-bcast
#		Ken Chapman <ltkchapman@isis.com>
rimsl	2044/tcp	
rimsl	2044/udp	
cdfunc	2045/tcp	
cdfunc	2045/udp	
sdfunc	2046/tcp	
sdfunc	2046/udp	
dls	2047/tcp	
dls	2047/udp	
dls-monitor	2048/tcp	
dls-monitor	2048/udp	
#		<== NOTE Conflict on 2049 !
shilp	2049/tcp	
shilp	2049/udp	
nfs	2049/tcp	Network File System - Sun Microsystems
nfs	2049/udp	Network File System - Sun Microsystems
#		Brent Callaghan <ltbrent@terra.eng.sun.com>
dlsrcpn	2065/tcp	Data Link Switch Read Port Number
dlsrcpn	2065/udp	Data Link Switch Read Port Number
dlswpn	2067/tcp	Data Link Switch Write Port Number
dlswpn	2067/udp	Data Link Switch Write Port Number
zephyr-srv	2102/tcp	Zephyr server
zephyr-srv	2102/udp	Zephyr server
zephyr-clt	2103/tcp	Zephyr serv-hm connection
zephyr-clt	2103/udp	Zephyr serv-hm connection
zephyr-hm	2104/tcp	Zephyr hostmanager
zephyr-hm	2104/udp	Zephyr hostmanager
#		Greg Hudson <ltzephyr-bugs@mit.edu>
minipay	2105/tcp	MiniPay
minipay	2105/udp	MiniPay
#		Amir Herzberg <ltamirh@vnet.ibm.com>
#	2106-2200	Unassigned
ats	2201/tcp	Advanced Training System Program
ats	2201/udp	Advanced Training System Program
#		
imtc-map	2202/tcp	Int. Multimedia Teleconferencing Cosortium
imtc-map	2202/udp	Int. Multimedia Teleconferencing Cosortium
#		Pat Galvin <ltpgalvin@databeam.com>
kali	2213/tcp	Kali

kali	2213/udp	Kali
#		Jay Cotton <JAY@calc.vet.uga.edu>
unreg-ab1	2221/tcp	Allen-Bradley unregistered port
unreg-ab1	2221/udp	Allen-Bradley unregistered port
unreg-ab2	2222/tcp	Allen-Bradley unregistered port
unreg-ab2	2222/udp	Allen-Bradley unregistered port
inreg-ab3	2223/tcp	Allen-Bradley unregistered port
inreg-ab3	2223/udp	Allen-Bradley unregistered port
#		
ivs-video	2232/tcp	IVS Video default
ivs-video	2232/udp	IVS Video default
#		Thierry Turletti
		<Thierry.Turletti@sophia.inria.fr>
infocrypt	2233/tcp	INFOCRYPT
infocrypt	2233/udp	INFOCRYPT
#		Erica Liu <liue@isolation.com>
directplay	2234/tcp	DirectPlay
directplay	2234/udp	DirectPlay
#		Ajay Jindal <ajjayj@microsoft.com>
sercomm-wlink	2235/tcp	Sercomm-WLink
sercomm-wlink	2235/udp	Sercomm-WLink
#		Melinda Tsao <melinda@tpel.sercomm.com.tw>
nani	2236/tcp	Nani
nani	2236/udp	Nani
#		Steve Benoit <tsbenoi01@eng.eds.com>
optech-port1-lm	2237/tcp	Optech Port1 License Manager
optech-port1-lm	2237/udp	Optech Port1 License Manager
#		Gerard Cannie <tjcannie@opticaltech.com>
aviva-sna	2238/tcp	AVIVA SNA SERVER
aviva-sna	2238/udp	AVIVA SNA SERVER
#		Vick Keshishian <tvickenK@192.219.82.71>
imagequery	2239/tcp	Image Query
imagequery	2239/udp	Image Query
#		Charles Jacobs <tcjacobs@numinous.com>
#	2240	Unassigned
ivsd	2241/tcp	IVS Daemon
ivsd	2241/udp	IVS Daemon
#		Thierry Turletti <Thierry.Turletti@sophia.inria.fr>
#	2242-2278	Unassigned
xmquery	2279/tcp	xmquery
xmquery	2279/udp	xmquery
#		Niels Christiansen <tnchris@austin.ibm.com>
lnvpoller	2280/tcp	LNVPOLLER
lnvpoller	2280/udp	LNVPOLLER
lnvconsole	2281/tcp	LNVCNOSOLE
lnvconsole	2281/udp	LNVCNOSOLE
lnvalarm	2282/tcp	LNVALARM
lnvalarm	2282/udp	LNVALARM
lnvstatus	2283/tcp	LNVSTATUS
lnvstatus	2283/udp	LNVSTATUS
lnvmaps	2284/tcp	LNVMAPS
lnvmaps	2284/udp	LNVMAPS
lnvmailmon	2285/tcp	LNVMAILMON
lnvmailmon	2285/udp	LNVMAILMON
#		Andrew MacKeith <mackeith@crd.lotus.com>
nas-metering	2286/tcp	NAS-Metering

nas-metering	2286/udp	NAS-Metering
#		Steven Sawkins <ssawkins@symantec.com>
dna	2287/tcp	DNA
dna	2287/udp	DNA
#		Tung Nguyen <tdash@ricochet.net>
netml	2288/tcp	NETML
netml	2288/udp	NETML
#		Jochen Hansmeyer <jch@krypton.de>
#	2289-2306	Unassigned
pehelp	2307/tcp	pehelp
pehelp	2307/udp	pehelp
#		Jens Kilian <jens.k@hpbeo82.bbn.hp.com>
#	2308-2400	Unassigned
cvspserver	2401/tcp	cvspserver
cvspserver	2401/udp	cvspserver
#		Jim Kingdon <jkingdon@harvey.cyclic.com>
rtsserv	2500/tcp	Resource Tracking system server
rtsserv	2500/udp	Resource Tracking system server
rtsclient	2501/tcp	Resource Tracking system client
rtsclient	2501/udp	Resource Tracking system client
#		Aubrey Turner
#	<S95525ta%etsuacad.bitnet@ETSUADMN.ETSU.EDU>	
hp-3000-telnet	2564/tcp	HP 3000 NS/VT block mode telnet
netrek	2592/tcp	netrek
netrek	2592/udp	netrek
tqdata	2700/tcp	tqdata
tqdata	2700/udp	tqdata
#		Al Guetzlaff <aeg@teamquest.com>
#		Unassigned
www-dev	2784/tcp	world wide web - development
www-dev	2784/udp	world wide web - development
aic-np	2785/tcp	aic-np
aic-np	2785/udp	aic-np
#		Brad Parker <brad@american.com>
aic-oncrpc	2786/tcp	aic-oncrpc - Destiny MCD database
aic-oncrpc	2786/udp	aic-oncrpc - Destiny MCD database
#		Brad Parker <brad@american.com>
piccolo	2787/tcp	piccolo - Cornerstone Software
piccolo	2787/udp	piccolo - Cornerstone Software
#		Dave Bellivea <DaveBelliveau@corsof.com>
fryeserv	2788/tcp	NetWare Loadable Module - Seagate Software
fryeserv	2788/udp	NetWare Loadable Module - Seagate Software
#		Joseph LoPilato <Joseph_M_LoPilato@notes.seagate.com>
media-agent	2789/tcp	Media Agent
media-agent	2789/udp	Media Agent
#		Nitzan Daube <nitzan@brm.com>
#	2789-2907	Unassigned
mao	2908/tcp	mao
mao	2908/udp	mao
#		Marc Baudoin <babafou@ensta.fr>
#	2909-2999	Unassigned
hbc	3000/tcp	HBC
hbc	3000/udp	HBC
#		Kurt Haubner <thaubner@ibm.net>

redwood-broker	3001/tcp	Redwood Broker
redwood-broker	3001/udp	Redwood Broker
#		Joseph Morrison <joe@powerframe.com>
exlm-agent	3002/tcp	EXLM Agent
exlm-agent	3002/udp	EXLM Agent
#		Randy Martin <rtexlmoc@clemsn.edu>
#	3003-3009	Unassigned
gw	3010/tcp	Telerate Workstation
ping-pong	3010/udp	Telerate Workstation
#		Timo Sivonen
<timo.sivonen@ccmail.dowjones.com>		
trusted-web	3011/tcp	Trusted Web
trusted-web	3011/udp	Trusted Web
#		Alex Duncan <alex.duncan@sse.ie>
#	3012-3046	Unassigned
hlserver	3047/tcp	Fast Security HL Server
hlserver	3047/udp	Fast Security HL Server
#		Michael Zunke <tmzunke@fast-ag.de>
pctrader	3048/tcp	Sierra Net PC Trader
pctrader	3048/udp	Sierra Net PC Trader
#		Chris Hahn <chrish@sierra.net>
NSWS	3049/tcp	
NSWS	3049/udp	
vmodem	3141/tcp	VMODEM
vmodem	3141/udp	VMODEM
#		Ray Gwinn <tp00321@psilink.com>
rdc-wh-eos	3142/tcp	RDC WH EOS
rdc-wh-eos	3142/udp	RDC WH EOS
#		Udi Nir <tudi_nir@ncc.co.il>
seaview	3143/tcp	Sea View
seaview	3143/udp	Sea View
#		Jim Flaherty
<jim_e_flaherty@notes.seagate.com>		
tarantella	3144/tcp	Tarantella
tarantella	3144/udp	Tarantella
#		Roger Binns <trogerb@sco.com>
csi-lfap	3145/tcp	CSI-LFAP
csi-lfap	3145/udp	CSI-LFAP
#		Paul Amsden <tamsden@ctron.com>
#	3146-3263	Unassigned
ccmail	3264/tcp	cc:mail/lotus
ccmail	3264/udp	cc:mail/lotus
dec-notes	3333/tcp	DEC Notes
dec-notes	3333/udp	DEC Notes
#		Kim Moraros <tmoraros@via.enet.dec.com>
mapper-nodemgr	3984/tcp	MAPPER network node manager
mapper-nodemgr	3984/udp	MAPPER network node manager
mapper-mapethd	3985/tcp	MAPPER TCP/IP server
mapper-mapethd	3985/udp	MAPPER TCP/IP server
mapper-ws_ethd	3986/tcp	MAPPER workstation server
mapper-ws_ethd	3986/udp	MAPPER workstation server
#		John C. Horton <tjch@unirsvl.rsvl.unisys.com>
bmap	3421/tcp	Bull Apprise portmapper
bmap	3421/udp	Bull Apprise portmapper
#		Jeremy Gilbert <J.Gilbert@ma30.bull.com>
#		
mira	3454/tcp	Apple Remote Access Protocol

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# Mike Alexander <ltmta@um.cc.umich.edu>
prsvp 3455/tcp RSVP Port
prsvp 3455/udp RSVP Port
# Bob Braden <Braden@isi.edu>
vat 3456/tcp VAT default data
vat 3456/udp VAT default data
# Van Jacobson <van@ee.lbl.gov>
vat-control 3457/tcp VAT default control
vat-control 3457/udp VAT default control
# Van Jacobson <van@ee.lbl.gov>
# 3458-3899 Unassigned
udt_os 3900/tcp Unidata UDT OS
udt_os 3900/udp Unidata UDT OS
# James Powell <james@mailhost.unidata.com>
netcheque 4008/tcp NetCheque accounting
netcheque 4008/udp NetCheque accounting
# B. Clifford Neuman <tbcn@isi.edu>
chimera-hwm 4009/tcp Chimera HWM
chimera-hwm 4009/udp Chimera HWM
# Ken Anderson <tkanderso@kleber.ICS.UCI.EDU>
# 4010-4131 Unassigned
nuts_dem 4132/tcp NUTS Daemon
nuts_dem 4132/udp NUTS Daemon
nuts_bootp 4133/tcp NUTS Bootp Server
nuts_bootp 4133/udp NUTS Bootp Server
# Martin Freiss <tfreiss.pad@sni.>
nifty-hmi 4134/tcp NIFTY-Serve HMI protocol
nifty-hmi 4134/udp NIFTY-Serve HMI protocol
# Ryuichi Suzuki <SCI00376@niftyserve.or.jp>
rwhois 4321/tcp Remote Who Is
rwhois 4321/udp Remote Who Is
# Mark Koster <markk@internic.net>
unicall 4343/tcp UNICALL
unicall 4343/udp UNICALL
# James Powell <james@enghp.unidata.comp>
krb524 4444/tcp KRB524
krb524 4444/udp KRB524
# B. Clifford Neuman <tbcn@isi.edu>
# PROBLEM krb524 assigned the port,
# PROBLEM nv used it without an assignment
nv-video 4444/tcp NV Video default
nv-video 4444/udp NV Video default
# Ron Frederick <rfrederick@parc.xerox.com>
upnotifyp 4445/tcp UPNOTIFYP
upnotifyp 4445/udp UPNOTIFYP
# Mark Fox <markf@uplanet.com>
nl-fwp 4446/tcp Nl-FWP
nl-fwp 4446/udp Nl-FWP
nl-rmgmt 4447/tcp Nl-RMGMT
nl-rmgmt 4447/udp Nl-RMGMT
# Lori Tassin <Ramsey@network-1.com>
asc-slmd 4448/tcp ASC Licence Manager
asc-slmd 4448/udp ASC Licence Manager
# Casper Stoel <tcbbs@ascinc.com>
arcryptoip 4449/tcp ARCrypto IP
arcryptoip 4449/udp ARCrypto IP
# Uri Resnitzky <turi@arx.com>

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camp	4450/tcp	Camp
camp	4450/udp	Camp
ctisystemmsg	4451/tcp	CTI System Msg
ctisystemmsg	4451/udp	CTI System Msg
ctiprogramload	4452/tcp	CTI Program Load
ctiprogramload	4452/udp	CTI Program Load
#		Steven Cliff <sbcliff@controltechnology.com>
nssalertmgr	4453/tcp	NSS Alert Manager
nssalertmgr	4453/udp	NSS Alert Manager
nssagentmgr	4454/tcp	NSS Agent Manager
nssagentmgr	4454/udp	NSS Agent Manager
#		Jim Hill <jhill@symantec.com>
#	4455-4499	Unassigned
sae-urn	4500/tcp	sae-urn
sae-urn	4500/udp	sae-urn
urn-x-cdchoice	4501/tcp	urn-x-cdchoice
urn-x-cdchoice	4501/udp	urn-x-cdchoice
#		Paul Hoffman <phoffman@proper.com>
rfa	4672/tcp	remote file access server
rfa	4672/udp	remote file access server
complex-main	5000/tcp	
complex-main	5000/udp	
complex-link	5001/tcp	
complex-link	5001/udp	
rfe	5002/tcp	radio free ethernet
rfe	5002/udp	radio free ethernet
claris-fmpro	5003/tcp	Claris FileMaker Pro
claris-fmpro	5003/udp	Claris FileMaker Pro
#		Jon Thatcher <jon_thatcher@qm.claris.com>
avt-profile-1	5004/tcp	avt-profile-1
avt-profile-1	5004/udp	avt-profile-1
avt-profile-2	5005/tcp	avt-profile-2
avt-profile-2	5005/udp	avt-profile-2
#		Henning Schulzrinne
		<schulzrinne@fokus.gmd.de>
telepathstart	5010/tcp	TelepathStart
telepathstart	5010/udp	TelepathStart
telepathattack	5011/tcp	TelepathAttack
telepathattack	5011/udp	TelepathAttack
#		Helmuth Breitenfellner <hbreitenf@vnet.imb.com>
zenginkyo-1	5020/tcp	zenginkyo-1
zenginkyo-1	5020/udp	zenginkyo-1
zenginkyo-2	5021/tcp	zenginkyo-2
zenginkyo-2	5021/udp	zenginkyo-2
#		Masashi Suzuki <susakim@noa.nttdata.jp>
mmcc	5050/tcp	multimedia conference control tool
mmcc	5050/udp	multimedia conference control tool
#		Steve Casner <scasner@isi.edu>
rmonitor_secure	5145/tcp	
rmonitor_secure	5145/udp	
atmp	5150/tcp	Ascend Tunnel Management Protocol
atmp	5150/udp	Ascend Tunnel Management Protocol
#		Kory Hamzeh <tkory@ascend.com>
aol	5190/tcp	America-Online
aol	5190/udp	America-Online
#		Marty Lyons <tmarty@aol.com>
aol-1	5191/tcp	AmericaOnline1

aol-1	5191/udp	AmericaOnline1
aol-2	5192/tcp	AmericaOnline2
aol-2	5192/udp	AmericaOnline2
aol-3	5193/tcp	AmericaOnline3
aol-3	5193/udp	AmericaOnline3
#		Bruce Mackey <BAMackey@aol.com>
padl2sim	5236/tcp	
padl2sim	5236/udp	
hacl-hb	5300/tcp	# HA cluster heartbeat
hacl-hb	5300/udp	# HA cluster heartbeat
hacl-gs	5301/tcp	# HA cluster general services
hacl-gs	5301/udp	# HA cluster general services
hacl-cfg	5302/tcp	# HA cluster configuration
hacl-cfg	5302/udp	# HA cluster configuration
hacl-probe	5303/tcp	# HA cluster probing
hacl-probe	5303/udp	# HA cluster probing
hacl-local	5304/tcp	# HA Cluster Commands
hacl-local	5304/udp	
hacl-test	5305/tcp	# HA Cluster Test
hacl-test	5305/udp	
#		Eric Soderberg
<seric@hposl102.cup.hp>		
#		Edward Yim <teyim@hpmfas4.cup.hp.com>
excerpt	5400/tcp	Excerpt Search
excerpt	5400/udp	Excerpt Search
excerpts	5401/tcp	Excerpt Search Secure
excerpts	5401/udp	Excerpt Search Secure
#		John Hinsdale <lthin@alma.com>
personal-agent	5555/tcp	Personal Agent
personal-agent	5555/udp	Personal Agent
#		Jackie Wu <tjackiew@infoseek.com>
pcanywheredata	5631/tcp	pcANYWHEREdata
pcanywheredata	5631/udp	pcANYWHEREdata
pcanywherestat	5632/tcp	pcANYWHEREstat
pcanywherestat	5632/udp	pcANYWHEREstat
#		Jon Rosarky <JRosarky@symantec.com>
rrac	5678/tcp	Remote Replication Agent Connection
rrac	5678/udp	Remote Replication Agent Connection
dccm	5679/tcp	Direct Cable Connect Manager
dccm	5679/udp	Direct Cable Connect Manager
#		Mark Miller <tmiller@MICROSOFT.com>
proshareaudio	5713/tcp	proshare conf audio
proshareaudio	5713/udp	proshare conf audio
prosharevideo	5714/tcp	proshare conf video
prosharevideo	5714/udp	proshare conf video
prosharedata	5715/tcp	proshare conf data
prosharedata	5715/udp	proshare conf data
prosharerequest	5716/tcp	proshare conf request
prosharerequest	5716/udp	proshare conf request
prosharenotify	5717/tcp	proshare conf notify
prosharenotify	5717/udp	proshare conf notify
#		<gunner@ibeam.intel.com>
openmail	5729/tcp	Openmail User Agent Layer
openmail	5729/udp	Openmail User Agent Layer
openmailg	5755/tcp	OpenMail Desk Gateway server
openmailg	5755/udp	OpenMail Desk Gateway server



x500ms	5757/tcp	OpenMail X.500 Directory Server
x500ms	5757/udp	OpenMail X.500 Directory Server
openmailns	5766/tcp	OpenMail NewMail Server
openmailns	5766/udp	OpenMail NewMail Server
s-openmail	5767/tcp	OpenMail Suer Agent Layer (Secure)
s-openmail	5767/udp	OpenMail Suer Agent Layer (Secure)
#		OpenMail Encyclopedia
<mailto:opencyc@hpopd.pwd.hp.com>		
#		Don Loughry <DON_LOUGHRY@hp-cupertino-om4.om.hp.com>
fcopy-server	5745/tcp	fcopy-server
fcopy-server	5745/udp	fcopy-server
#		Moshe Leibovitch <moshe@softlinkusa.com>
x11	6000-6063/tcp	X Window System
x11	6000-6063/udp	X Window System
#		Stephen Gildea <gildea@expo.lcs.mit.edu>
softcm	6110/tcp	HP SoftBench CM
softcm	6110/udp	HP SoftBench CM
spc	6111/tcp	HP SoftBench Sub-Process Control
spc	6111/udp	HP SoftBench Sub-Process Control
#		Scott A. Kramer <tsk@tleilaxu.sde.hp.com>
dtspcd	6112/tcp	dtspcd
dtspcd	6112/udp	dtspcd
#		Doug Royer <Doug.Royer@eng.sun.com>
backup-express	6123/tcp	Backup Express
backup-express	6123/udp	Backup Express
#		Chi Shih Chang <cchang@syncsort.com>
meta-corp	6141/tcp	Meta Corporation License Manager
meta-corp	6141/udp	Meta Corporation License Manager
#		Osamu Masuda <--none-->
aspentec-lm	6142/tcp	Aspen Technology License Manager
aspentec-lm	6142/udp	Aspen Technology License Manager
#		Kevin Massey <massey@aspentec.com>
watershed-lm	6143/tcp	Watershed License Manager
watershed-lm	6143/udp	Watershed License Manager
#		David Ferrero <david@zion.com>
statsci1-lm	6144/tcp	StatSci License Manager - 1
statsci1-lm	6144/udp	StatSci License Manager - 1
statsci2-lm	6145/tcp	StatSci License Manager - 2
statsci2-lm	6145/udp	StatSci License Manager - 2
#		Scott Blachowicz <scott@statsci.com>
lonewolf-lm	6146/tcp	Lone Wolf Systems License Manager
lonewolf-lm	6146/udp	Lone Wolf Systems License Manager
#		Dan Klein <dvk@lonewolf.com>
montage-lm	6147/tcp	Montage License Manager
montage-lm	6147/udp	Montage License Manager
#		Michael Ubell <michael@montage.com>
ricardo-lm	6148/tcp	Ricardo North America License Manager
ricardo-lm	6148/udp	Ricardo North America License Manager
#		M Flemming <mflemming@aol.com>
tal-pod	6149/tcp	tal-pod
tal-pod	6149/udp	tal-pod
#		Steven Loomis <srl@taligent.com>
crip	6253/tcp	CRIP
crip	6253/udp	CRIP
#		Mike Rodbell <mrodbell@ciena.com>
clariion-evr01	6389/tcp	clariion-evr01

clariion-evr01	6389/udp	clariion-evr01
#		Dave DesRoches <ltddesroches@clariion.com>
skip-cert-recv	6455/tcp	SKIP Certificate Receive
skip-cert-send	6456/tcp	SKIP Certificate Send
#		Tom Markson <ltmarkson@osmosys.incog.com>
xdsxmd	6558/tcp	
xdsxmd	6558/udp	
vocaltec-gold	6670/tcp	Vocaltec Global Online Directory
vocaltec-gold	6670/udp	Vocaltec Global Online Directory
#		Scott Petrack <ltScott_Petrack@vocaltec.com>
vision_server	6672/tcp	vision_server
vision_server	6672/udp	vision_server
vision_elmd	6673/tcp	vision_elmd
vision_elmd	6673/udp	vision_elmd
#		Chris Kramer <ltCKramer@gis.shl.com>
ambit-lm	6831/tcp	ambit-lm
ambit-lm	6831/udp	ambit-lm
#		Don Hejna <ltjdhejna@ambit.com>
acmsoda	6969/tcp	acmsoda
acmsoda	6969/udp	acmsoda
#		Daniel Simms <ltsimms@acm.uiuc.edu>
afs3-fileserver	7000/tcp	file server itself
afs3-fileserver	7000/udp	file server itself
afs3-callback	7001/tcp	callbacks to cache managers
afs3-callback	7001/udp	callbacks to cache managers
afs3-prserver	7002/tcp	users & groups database
afs3-prserver	7002/udp	users & groups database
afs3-vlserver	7003/tcp	volume location database
afs3-vlserver	7003/udp	volume location database
afs3-kaserver	7004/tcp	AFS/Kerberos authentication service
afs3-kaserver	7004/udp	AFS/Kerberos authentication service
afs3-volser	7005/tcp	volume managment server
afs3-volser	7005/udp	volume managment server
afs3-errors	7006/tcp	error interpretation service
afs3-errors	7006/udp	error interpretation service
afs3-bos	7007/tcp	basic overseer process
afs3-bos	7007/udp	basic overseer process
afs3-update	7008/tcp	server-to-server updater
afs3-update	7008/udp	server-to-server updater
afs3-rmtsys	7009/tcp	remote cache manager service
afs3-rmtsys	7009/udp	remote cache manager service
ups-onlinet	7010/tcp	onlinet uninterruptable power supplies
ups-onlinet	7010/udp	onlinet uninterruptable power supplies
#		Brian Hammill <ltbrianh@exide.com>
lazy-ptop	7099/tcp	lazy-ptop
lazy-ptop	7099/udp	lazy-ptop
#		Guy Keren <ltGuy_Keren@mail.stil.scitex.com>
font-service	7100/tcp	X Font Service
font-service	7100/udp	X Font Service
#		Stephen Gildea <ltgildea@expo.lcs.mit.edu>
virprot-lm	7121/tcp	Virtual Prototypes License Manager
virprot-lm	7121/tcp	Virtual Prototypes License Manager
#		Victor Galis <ltgalis@satchmo.virtualprototypes.ca>
clutild	7174/tcp	Clutild
clutild	7174/tcp	Clutild
#		Cheryl Stoutenburg
<ltcstoutenburg@vnet.ibm.com>		

fodms	7200/tcp	FODMS FLIP
fodms	7200/udp	FODMS FLIP
#	David Anthony	<anthony@power.amasd.anatcp.rockwell.com>
dlip	7201/tcp	DLIP
dlip	7201/udp	DLIP
#	Albert Manfredi	<manfredi@engr05.comsys.rockwell.com>
wingedit	7395/tcp	wingedit
wingedit	7395/udp	wingedit
#	David Greer	<david_greer@robelle.com>
telops-lmd	7491/tcp	telops-lmd
telops-lmd	7491/udp	telops-lmd
#	David Spencer	<dspencer@telops.com>
pafec-lm	7511/tcp	pafec-lm
pafec-lm	7511/udp	pafec-lm
#	Billy Dhillon	<bdsos@pafec.co.uk>
cbt	7777/tcp	cbt
cbt	7777/udp	cbt
#	Tony Ballardie	<A.Ballardie@cs.ucl.ac.uk>
accu-lmgr	7781/tcp	accu-lmgr
accu-lmgr	7781/udp	accu-lmgr
#	Moises E. Hernandez	
	<moises@accugraph.com>	
irdmi2	7999/tcp	iRDMI2
irdmi2	7999/udp	iRDMI2
irdmi	8000/tcp	iRDMI
irdmi	8000/udp	iRDMI
#	Gil Shafriri	
	<shafriri@ilccml.iil.intel.com>	
pro-ed	8032/tcp	ProEd
pro-ed	8032/udp	ProEd
#	L.S. Tusoni	<tlarry@goldrush.com>
npmp	8450/tcp	npmp
npmp	8450/udp	npmp
#	Ian Chard	<tian@tanagra.demon.co.uk>
ddi-tcp-1	8888/tcp	NewsEDGE server TCP (TCP 1)
ddi-udp-1	8888/udp	NewsEDGE server UDP (UDP 1)
ddi-tcp-2	8889/tcp	Desktop Data TCP 1
ddi-udp-2	8889/udp	NewsEDGE server broadcast
ddi-tcp-3	8890/tcp	Desktop Data TCP 2
ddi-udp-3	8890/udp	NewsEDGE client broadcast
ddi-tcp-4	8891/tcp	Desktop Data TCP 3: NESS application
ddi-udp-4	8891/udp	Desktop Data UDP 3: NESS application
ddi-tcp-5	8892/tcp	Desktop Data TCP 4: FARM product
ddi-udp-5	8892/udp	Desktop Date UDP 4: FARM product
ddi-tcp-6	8893/tcp	Desktop Data TCP 5: NewsEDGE/Web
application		
ddi-udp-6	8893/udp	Desktop Date UDP 5: NewsEDGE/Web
application		
ddi-tcp-7	8894/tcp	Desktop Data TCP 6: COAL application
ddi-udp-7	8894/udp	Desktop Date UDP 6: COAL application
#	Fred Yao	
	<Fred_Yao@DDIGATE2.desktopdata.com>	
cslistener	9000/tcp	CSlistener
cslistener	9000/udp	CSlistener
#	David Jones	<djones@cincom.com>
man	9535/tcp	
man	9535/udp	

sd	9876/tcp	Session Director
sd	9876/udp	Session Director
#		Van Jacobson <ltvan@ee.lbl.gov>
#	9877-9991	Unassigned
palace	9992/tcp	Palace
palace	9992/udp	Palace
palace	9993/tcp	Palace
palace	9993/udp	Palace
palace	9994/tcp	Palace
palace	9994/udp	Palace
palace	9995/tcp	Palace
palace	9995/udp	Palace
palace	9996/tcp	Palace
palace	9996/udp	Palace
palace	9997/tcp	Palace
palace	9997/udp	Palace
#		Michael Melo <ltmichael@thepalace.com>
distinct32	9998/tcp	Distinct32
distinct32	9998/udp	Distinct32
distinct	9999/tcp	distinct
distinct	9999/udp	distinct
#		Anoop Tewari <ltanoop@next.distinct.com>
ndmp	10000/tcp	Network Data Management Protocol
ndmp	10000/udp	Network Data Management Protocol
#		Brian Ehrmantraut <ltbae@netapp.com>
tsaf	12753/tcp	tsaf port
tsaf	12753/udp	tsaf port
#		Andreas Fehr <lt100042.2070@CompuServe.COM>
isode-dua	17007/tcp	
isode-dua	17007/udp	
biimenu	18000/tcp	Beckman Instruments, Inc.
biimenu	18000/udp	Beckman Instruments, Inc.
		R. L. Meyering
		<ltRLMEYERING@BIIVAX.DP.BECKMAN.COM>
webphone	21845/tcp	webphone
webphone	21845/udp	webphone
netspeak-is	21846/tcp	NetSpeak Corp. Directory Services
netspeak-is	21846/udp	NetSpeak Corp. Directory Services
netspeak-cs	21847/tcp	NetSpeak Corp. Connection Services
netspeak-cs	21847/udp	NetSpeak Corp. Connection Services
netspeak-acd	21848/tcp	NetSpeak Corp. Automatic Call Distribution
netspeak-acd	21848/udp	NetSpeak Corp. Automatic Call Distribution
netspeak-cps	21849/tcp	NetSpeak Corp. Credit Processing System
netspeak-cps	21849/udp	NetSpeak Corp. Credit Processing System
#		Shane D. Mattaway <ltroot@netspeak.com>
wnn6	22273/tcp	wnn6
wnn6	22273/udp	wnn6
#		Yasunari Gon Yamasita
		<lttyamasita@omronsoft.co.jp
vocaltec-wconf	22555/tcp	Vocaltec Web Conference
vocaltec-phone	22555/udp	Vocaltec Internet Phone
#		Scott Petrack <ltScott_Petrack@vocaltec.com>
aws-brf	22800/tcp	Telerate Information Platform LAN
aws-brf	22800/udp	Telerate Information Platform LAN
#		Timo Sivonen
		<lttimo.sivonen@ccmail.dowjones.com>

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brf-gw          22951/tcp Telerate Information Platform WAN
brf-gw          22951/udp Telerate Information Platform WAN
#              Timo Sivonen
&lt;timo.sivonen@ccmail.dowjones.com>
icl-twobase1    25000/tcp icl-twobase1
icl-twobase1    25000/udp icl-twobase1
icl-twobase2    25001/tcp icl-twobase2
icl-twobase2    25001/udp icl-twobase2
icl-twobase3    25002/tcp icl-twobase3
icl-twobase3    25002/udp icl-twobase3
icl-twobase4    25003/tcp icl-twobase4
icl-twobase4    25003/udp icl-twobase4
icl-twobase5    25004/tcp icl-twobase5
icl-twobase5    25004/udp icl-twobase5
icl-twobase6    25005/tcp icl-twobase6
icl-twobase6    25005/udp icl-twobase6
icl-twobase7    25006/tcp icl-twobase7
icl-twobase7    25006/udp icl-twobase7
icl-twobase8    25007/tcp icl-twobase8
icl-twobase8    25007/udp icl-twobase8
icl-twobase9    25008/tcp icl-twobase9
icl-twobase9    25008/udp icl-twobase9
icl-twobase10   25009/tcp icl-twobase10
icl-twobase10   25009/udp icl-twobase10
#              J. A. (Tony) Sever &lt;J.A.Sever@bra0119.wins.icl.co.uk>
vocaltec-hos    25793/tcp Vocaltec Address Server
vocaltec-hos    25793/udp Vocaltec Address Server
#              Scott Petrack &lt;Scott_Petrack@vocaltec.com>
quake           26000/tcp quake
quake           26000/udp quake
wnn6-ds         26208/tcp wnn6-ds
wnn6-ds         26208/udp wnn6-ds
#              Yasunari Gon Yamasita
&lt;tyamasita@omronsoft.co.jp>

dbbrowse        47557/tcp Databeam Corporation
dbbrowse        47557/udp Databeam Corporation
#              Cindy Martin &lt;tcmartin@databeam.com>

ap              47806/tcp ALC Protocol
ap              47806/udp ALC Protocol
#              Andrew Newton &lt;alnewton@automatedlogic.com>
bacnet          47808/tcp Building Automation and Control Networks
bacnet          47808/udp Building Automation and Control Networks
#              H. Michael Newman &lt;hmn2@cornell.edu>

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#### DYNAMIC AND/OR PRIVATE PORTS

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

#### REFERENCES

[RFC768] Postel, J., "User Datagram Protocol", STD 6, RFC 768,  
USC/Information Sciences Institute, August 1980.

[RFC793] Postel, J., ed., "Transmission Control Protocol - DARPA  
Internet Program Protocol Specification", STD 7, RFC 793,  
USC/Information Sciences Institute, September 1981.