

Sheet1

IBM OS/2 LAN Server

Questions to Answer:

Comments? -- AUSVM1(TOMGORDY) or IBMMAIL(USIB22M6) or TOMGORDY@AUSVM1.VNET.IBM.COM

1. Server Name
2. Domain Name
3. Advanced or Entry Server
 - 3a) Fat,Hpfs or Both shared?
 - 3b) DC or Add'l Srvr?
4. Total No. of DLR Reqs
5. DLR Reqs. with Windows
6. OS/2 Requesters
7. No. of Additional. Servers
8. No.of Apps Shared by SRVR
9. Memory in Server
10. DLRINST used at SRV
- 11a) No. of DOS RPL Req
- 11b) No. of OS/2 RPL Req
12. No. of Home Directories
13. Is a user at the Srv kbd?
- 13a) App RAM reserve (MB)
14. No.of Aliases (File/Print)
- 15.Apps downloded from Srv?
16. Appl I/O Seqtl or Random
17. No.LAN attchd prntrs used.

PAGE DOWN FOR NETWORK ADAPTER OPTIONS

No. of LAN adapters used

Adapter 1 TRN or E-Net

PAGE DOWN FOR COMMUNICATIONS OPTIONS

IBM OS/2 Communications Options

Questions to Answer:

LOTUS NOTES on Server?

Other NETBIOS applications

LAN Netwk Manager on SRV?

CM/2 SNA Gateway on Srv?

APPC used on Server?

DB2/2 on Server?

Other IEEE 802.2 API Appls.

PAGE DOWN FOR ERROR MESSAGES

SVNETBUF

Adapter Number Check

NETBIOS Sessions

NETBIOS Commands

NETBIOS Names

Server RAM

NETBIOS Work Areas (386)

Adapter 1 (802.2 RAM)

Adapter 2 (802.2 RAM)

Adapter 3 (802.2 RAM)

Adapter 4 (802.2 RAM)

TL 802.2 RAM utilization(386)

802.2 Stations Required

802.2 Users Required

Potential Problems/Warnings

IF NO SIGNIFICANT ERRORS ARE DISPLAYED ABOVE (ALL 'OK'),
PAGE DOWN FOR GENERATED IBMLAN.INI FILE AND CM CONFIG PARAMETERS

; OS/2 LAN Server initialization file

[networks]

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NET1 = NETBEUI\$,0,LM10,

; This information is read by the redirector at device initialization time.

[requester]

#NAME?

#NAME?

; The following parameters generally do not need to be
; changed by the user.

charcount = 16

chartime = 250

charwait = 3600

keepconn=600

keepsearch=600

maxcmds = 16

maxerrorlog = 100

maxthreads = 10

maxwrkcache = 64

numalerts = 12

numcharbuf = 10

numservices =

numworkbuf = 15

numdgrambuf =

othdomains =

printbuftime = 90

sesstimeout = 45

sizcharbuf = 512

sizerror = 1024

sizworkbuf = 4096

; The next lines help you to locate bits in the wrkheuristics entry.

; 1 2 3

; 0123456789012345678901234567890123

wrkheuristics = 1111111121311111110001011120111221

WRKSERVICES = LSCLIENT

wrknets = net1

[messenger]

logfile = messages.log

sizmessbuf = 4096

[lsclient]

multilogon = no

timesync = yes

logonverification = domain

logonwarningmsgs = all

[netlogon]

SCRIPTS = C:\IBMLAN\REPL\IMPORT\SCRIPTS
pulse = 60
update = yes

[replicator]

replicate = IMPORT
IMPORTPATH = C:\IBMLAN\REPL\IMPORT
tryuser = yes
password =
interval = 5
guardtime = 2
pulse = 3
random = 60

[dcdbrpl]

tryuser = yes
password =
interval = 5
guardtime = 2
pulse = 3
random = 60

[server]

alertnames =
auditing = no
autodisconnect = 120
maxusers =
; The following parameters generally do not need to be
; changed by the user. NOTE: srvnets= is represented in
; the server info struct as a 16-bit lan mask. Srvnet names
; are converted to indexes within [networks] for the named nets.
guestacct = guest
accessalert = 5
alertsched = 5
diskalert = 5000
erroralert = 5
logonalert = 5
maxauditlog = 100
maxchdevjob = 6
maxchdevq = 2
maxchdevs = 2
maxconnections =

```
maxlocks =
maxopens =
maxsearches =
maxsessopens = 80
maxsessreqs = 50
maxsessvcs = 1
maxshares =
netioalert = 5
numbigbuf =
numfiletasks = 1
numreqbuf =
sizreqbuf = 4096
srvanndelta = 3000
srvannounce = 60
; The next lines help you to locate bits in the srvheuristics entry.
;
;      1
;      01234567890123456789
```

#NAME?
#NAME?

```
srvnets = net1
```

```
[alerter]
```

```
  sizalertbuf = 3072
```

```
[netrun]
```

```
  maxruns = 3
  runpath = C:\
```

```
[lsserver]
```

```
  cleanup = yes
  srvpipes =
```

```
[services]
```

```
; Correlates name of service to pathname of service program.
; The pathname must be either
;   1) an absolute path (including the drive specification)
;
;   OR
;   2) a path relative to the IBMLAN root
```

```
alerter = services\alerter.exe
dcdbrepl = services\dcdbrepl.exe
dlrinst = services\dlrinst.exe
genalert = services\genalert.exe
lsclient = services\lsclient.exe
lsserver = services\lsserver.exe
messenger = services\msrvinit.exe
```

netlogon = services\netlogon.exe
netpopup = services\netpopup.exe
netrun = services\runservr.exe
remoteboot = services\rplservr.exe
replicator = services\replicat.exe
requester = services\wksta.exe
server = services\netsvini.exe
timesource = services\timesrc.exe
ups = services\ups.exe

PAGE DOWN FOR GENERATED COMM MGR CONFIG PARAMETERS

; IEEE 802.2 (if installed) - NOT REQUIRED BY SERVER

;NetBIOS

Adapter 1.

GDT Selectors (selectors) ->
Maximum Sessions (sessions) ->
Max Commands (ncbs) ->
Maximum Names (names) ->
Rmt Names (namecache) ->
NETBIOS Retries (netbiosretries) ->
I-Frame Dscriptors (packets) ->
UI-Frm Dscr's (datagrampackets) ->
looppackets= -->
maxdatarcv= -->
adaptrate= -->

CONFIG.SYS -- NOTE: Statements below must
be modified by the user. Drive letters shown as
x: and/or d: must be updated!

IFS=x:\IBM386FS\HPFS386.IFS x:\IBM386FS\HPFS200.386 /l:d:\IBMLAN /C:xxxx /USEALLMEM
xxxx above should be ----->

RUN=x:\IBM386FS\CACHE386.EXE /LAZY:ON /MAXAGE:10000

V3.0 -- Configuration Worksheet 1.08

Response

02/16/93

Errors:

SERVER01	(Machine Name)
DOMAIN01	
A	(A/E)
H	(F/H/B)
DC	AS/DC (DC=Dom Cntrl)
	0 (0 if none)
	0 (# out of total DLR)
	0 (0 if none)
	0 (0 if none)
	0 (3 Shares/App)
	14 (MB, eg, 14 or 16)
N	(Y/N)
	0 (# out of total DLR)
	0 (# out of total OS/2 req)
	0 (# if assigned)
N	(Y/N)
	1 (Pos #, Min=1MB)
	0 (1 Share/Alias)
N	(Y/N)
R	(S/R)
	0 (4033/HP, 0 to 24)

PROTOCOL.INI entries

1	(0--4)
(T/E)	

Response:

Potential Errors:

N	(Y/N)
N	(Y/N)
N	(Y/N)
N	(Y/N)
N	(Y/N)
N	(Y/N)

0 (0 if none, 1 for Em Wks)

OK
OK
OK
OK
OK
OK
OK
OK
OK
OK
OK
OK
OK
OK
OK

6040.00

60000.00

49510.00

#NAME?

32

94

14.00

18.00

14.00

32.00

128.00

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64.00
250.00
50.00

32.00

12.00

96.00

3.00

	5.00
	40.00
	95.00
	15.00
	20.00
	3.00
	410.00
	2.00
	1.00
looppackets= -->	300.00

2746.00
4456.00

END OF
DATA

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PROTOCOL.INI

Max SAPS (max_saps) ->
MaxLinkStations (links) ->
802.2 Users (users) ->
Q Elements (elements) ->
Glbl Desc Tbl Slectors (gdts) ->

IEEE 802.2 Results

NETBIOS Results
TOTAL RQMNTS

Maximum Sessions ->
Max Commands (ncbs)->
Maximum Names ->

[netbeui_nif]

Adapter 1.

GDT Selectors (selectors) ->
Maximum Sessions (sessions) ->
Max Commands (ncbs) ->
Maximum Names (names) ->
Rmt Names (namecache) ->
NETBIOS Retries (netbiosretries) ->
I-Frame Dscriptors (packets) ->
UI-Frm Dscr's (datagrampackets) ->
looppackets= -->
maxdatarcv= -->
adaptrate= -->

CONFIG.SYS -- NOTE: Statements below must
be modified by the user. Drive letters shown as
x: and/or d: must be updated!

IFS=x:\IBM386FS\HPFS386.IFS x:\IBM386FS\HPFS200.386 /l:d:\IBMLAN /C:xxxx /USEALLMEM
xxxx above should be ----->

RUN=x:\IBM386FS\CACHE386.EXE /LAZY:ON /MAXAGE:10000

Sheet1

	Memory Calculations	Result
3.00	14336.00 <- Server RAM	32.00
0.00	9984.00 <- Base Used	64.00
3.00	4352.00 <- Available	14.00
800.00	582.00 <- Memory used by INI options	32.00
30	3770.00 <- Balance After INI options	32.00
	2746.00 <- Calculated HPFS Cache	64.00
	0 <- Calculated DISKCACHE	250.00
	1024.00 <- Apps, NET RUN, AT, print reserve	128.00
		96.00
32.00		12.00
65.00		50.00
15.00	11110141112313001331	
		3.00
		18.00
		#NAME?
1.00		698.00
		14.00
5.00		
40.00		
95.00		
15.00		
20.00		
3.00		
410.00		
2.00		
1.00		
4456.00		
300.00		

2746.00

Sheet1

IBMLAN.INI Paramters	Potential Errors	Memory Required	
<- NETx, X1 operands total	OK		
<- NETx, X2 operands total	OK	OS/2 2.1	2.75
<- NETx, X3 operands	OK	NTS/2	0.40
<- MAXUSERS	OK	Adv Srvr	5.40
<- MAXSHARES	OK		
<- MAXLOCKS	OK		
<- MAXOPENS	OK		
<- MAXCONNECTIONS	OK		
<- NUMREQBUF	OK		
<- NUMBIGBUF	OK		
<- MAXSEARCHES	OK	Heap	0.64
<- SRVHEURISTICS	OK	CacheMgmt	0.06
<- SRVPIPES	OK	802.2 reqmnts	0.50
<- NUMSERVICES	OK	Tot al	9.75
	#NAME?	INI+Cache	4.20
<- Server RAM Check	OK	MemUsed	13.95
<- NUMDGRAMBUF	OK		

Sheet1

Assumptions:		Work Area
		0.00
Streamer = LANStreamer Adapter		0
Messenger Service on SRV=	1	0.00
numfiletasks=	1	0.00
NetBIOS names to requester	3	0.00
NetBIOS names to server	4	0.00
Default net1,X3 param	14	0.00
# of Group SAPs (max_g_saps)	0	1.00
LazyWrite Enabled	Yes	0.00
	Default	0.00
User Settable Assumptions	Current	Value
802.2 I-Frame descriptors (ipackets)	250	0.00
802.2UI Frame descriptors(uiackets)	100	0.00
802.2 Timer Control Blocks (tcbs)	64	0.00
INI Maxconnections for DOS users	6	0.00
INI Maxconnections for Windows users	9	0
INI Maxconnections for OS/2 users	12	2.00
NetBIOS Commands per LS30/A user	2	2.00
NetBIOS Commands per LS30/E user	1.60	0.00
Maxlocks as fraction of Maxopens	0.10	0.00
DOS user maxopens	10	0.00
Windows user maxopens	45	0.00
OS/2 user maxopens	55	0.00
minimum reqbufs per LS30/A user	3	0.00
minimum reqbufs per LS30/E user	2	0.00
Maximum bigbufs to generate	80	1.00
maxsearches per user	0.30	0.00
		1.00
		32.00
		0.00
	#NAME?	
	N	
	Y	
		1024.00
		0
		0
		2746.00
		2048.00
		0.00
		0.00
		0.00

- <- Total Requesters on Server
- <- Additional Servers
- <- User Logged onto Server (2=Yes, 0=No)
- <- Addit. Connections to servers if SRV used as Req
- <- DLRINST used (1=Y, 0=N)
- <- NOTES NetBIOS Session requirements
- <- Remote IPL used (2=Y,0=N)
- <- X1 Intermediate Result
- <- Additional NETBIOS Commands Required
- <- Additional NETBIOS Sessions Required
- <- Additional NETBIOS Names Required
- <- SNA SAP req'd (1=Y, 0=N)
- <- 4033 SAP requirements
- <- SQLLOO SAP req'd (1=Y, 0=N)
- <- IBM LAN Network Manager SAP's Req'd (1=Y,0=N)
- <- Other 802.2 Applications Requirements.
- <- Total 802.2 SAPs req'd
- <- Number of 802.2 Transmit Buffers
- <- IBM LAN Network Manager Stations Required.
- <- SNA Gateway Stations Required
- <- APPC Stations Required
- <- RDS OS/2 Stations Required
- <- RDS DOS Stations Required
- <- IEEE 802.2 Applications Stations Required
- <- Total 802.2 Stations Required
- <- Total 802.2 Users Required (12 Max allowed)
- <- Sequential (1), or Random operations (0), mainly
- <- Programs Loaded from Server (3=Y,1=N)
- <- NETBIOS Sessions (Intermediate result)
- <- Potential error check (part 1 of 3) 0=none, 1=problem
- <- Potential error check (part 2 of 3) 0=none, 1=problem
- <- DISKCACHE Required
- <- HPFS cache Required
- <- Server RAM reserved for local apps
- <- DISKCACHE for Advanced server
- <- DISKCACHE for Entry server
- <- HPFS cache for Advanced server
- <- HPFS cache for Entry server
- <- NetBIOS Sessions work area (1)
- <- NetBIOS Sessions work area (2)
- <- CM/2 Distributed Feature users

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.

MASTER IBMLAN.INI FILE (HANDS OFF!!)

; OS/2 LAN Server initialization file

[networks]

netlb = LOOPDRV\$,0

; This information is read by the redirector at device initialization time.

[requester]

COMPUTERNAME = SERVER01

DOMAIN = DOMAIN01

; The following parameters generally do not need to be
; changed by the user.

charcount = 16

chartime = 250

charwait = 3600

keepconn=600

keepsearch=600

maxcmds = 16

maxerrorlog = 100

maxthreads = 10

maxwrkcache = 64

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```
numalerts = 12
numcharbuf = 10
numservices = 16
numworkbuf = 15
numdgrambuf = 14
othdomains =
printbuftime = 90
sesstimeout = 45
sizcharbuf = 512
sizerror = 1024
sizworkbuf = 4096
; The next lines help you to locate bits in the wrkheuristics entry.
;           1     2     3
;           0123456789012345678901234567890123
wrkheuristics = 1111111121311111110001011120111221
WRKSERVICES = LSCLIENT
wrknets = NETLB
```

[messenger]

```
logfile = messages.log
sizmessbuf = 4096
```

[lsclient]

```
multilogon = no
timesync = yes
logonverification = domain
logonwarningmsgs = all
```

[netlogon]

```
SCRIPTS = C:\BMLAN\REPL\IMPORT\SCRIPTS
pulse = 60
update = yes
```

[replicator]

```
replicate = IMPORT
IMPORTPATH = C:\BMLAN\REPL\IMPORT
tryuser = yes
password =
interval = 5
guardtime = 2
pulse = 3
random = 60
```

[dcdbrep]

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```
tryuser = yes
password =
interval = 5
guardtime = 2
pulse = 3
random = 60
```

[server]

```
alertnames =
auditing = no
autodisconnect = 120
maxusers = 32
; The following parameters generally do not need to be
; changed by the user. NOTE: srvnets= is represented in
; the server info struct as a 16-bit lan mask. Srvnet names
; are converted to indexes within [networks] for the named nets.
guestacct = guest
accessalert = 5
alertsched = 5
diskalert = 5000
erroralert = 5
logonalert = 5
maxauditlog = 100
maxchdevjob = 6
maxchdevq = 2
maxchdevs = 2
maxconnections = 128
maxlocks = 64
maxopens = 250
maxsearches = 50
maxsessopens = 80
maxsessreqs = 50
maxsessvcs = 1
maxshares = 16
netioalert = 5
numbigbuf = 12
numfiletasks = 1
numreqbuf = 36
sizreqbuf = 4096
srvanndelta = 3000
srvannounce = 60
; The next lines help you to locate bits in the srvheuristics entry.
;           1
;           01234567890123456789
srvheuristics = 11110141111311001331
SRVSERVICES = NETLOGON,LSSERVER
srvnets = NETLB
```

[alerter]

sizealertbuf = 3072

[netrun]

maxruns = 3
runpath = C:\

[lsserver]

cleanup = yes
srvipipes = 3

[services]

; Correlates name of service to pathname of service program.
; The pathname must be either
; 1) an absolute path (including the drive specification)
; OR
; 2) a path relative to the IBMLAN root

alerter = services\alerter.exe
dcdbrepl = services\dcdbrepl.exe
dlrinst = services\dlrinst.exe
genalert = services\genalert.exe
lsclient = services\lsclient.exe
lsserver = services\lsserver.exe
messenger = services\msrvinit.exe
netlogon = services\netlogon.exe
netpopup = services\netpopup.exe
netrun = services\runservr.exe
remoteboot = services\rplservr.exe
replicator = services\replicat.exe
requester = services\wksta.exe
server = services\netsvini.exe
timesource = services\timesrc.exe
ups = services\ups.exe

IFS=x:\IBM386FS\HPFS386.IFS x:\IBM386FS\HPFS200.386 /l:d:\IBMLAN /C:xxxx /USEALLMEM
IFS=x:\OS2\HPFS.IFS /CACHE:xxxx /CRECL:yy

Messages Values:

<<- Exceeded or Equal to Max Value
<<- Please Specify a Positive #
<<- Too Many Specified
<<- Not enough RAM to Start
<<- Too Many RIPLs Specified
<<- Insufficient RAM for Configuration
<<- Too Many NETBIOS Resources Specified
<<- 802.2 RAM Exceeded
<<- Too Many DLR Requesters
<<- Too Many OS/2 Requesters
<<- Too Many Requesters on Server
<<- Please Enter Y or N
<<- See Column O for More Information
<<- Too Many Windows Reqs.
<<- Please Enter S or R
<<- Please Enter a Valid Number
<<- Enter a Minimum of One
<<- Invlid Entry/Combination
<<- 255 or More Stations Required per adapter!!!
<<- 255 or More Sessions Required per adapter!!!
<<- Add adapters for capacity (NetBIOS Commands-See H14)
<<- Too Many Stations Required for adapter(s) to support
<<- 1016 or More Names Required!!!
<<- Too Many, 12 Max
<<- 16/4 or LAN Streamer Recommended
<<- 16/4 or LAN Streamer REQUIRED
<<- Additional Server RAM Recommended
<<- Additional Server RAM REQUIRED
<<- Please Enter A or E
<<- Up to 4 adapters max.
<<- Please enter a positive number.
<<- Please Enter T or E
<<- Please Enter 4, 16 or S
<<- LAN Streamer Adapter Recommended
EarlyRelease=yes
EarlyRelease=yes Adapter=alternate
<<- LAN Streamer Adapter REQUIRED
<<- Invalid Entry - Must be S
SizWorkBuf=4456
MinRcvBufs=75
ReceiveChains=24 MaxTransmits=24
DriverName=ubnei\$ MaxTransmits=50
DriverName=elnkii\$ MaxTransmits=40
DriverName=elnkmc\$ MaxTransmits=40
<<- Invalid Response
More Adapters REQUIRED!!!
MaxTransmits=49 XmitBufs=2
<<- Invalid Entry (B27)

DriverName=Maceth\$ MaxRequests=16
DriverName=Macwd\$ MaxRequests=16
<<- Invalid Entry (B33)
<<- Invalid Entry (B37)
<<- Invalid Entry (B42)
RecieveBuffers=24
MaxRequests=10
DriverName=ibmtrdb\$
DriverName=ibmtok\$
MaxTransmits=50 XmitBufs=1
<<- Invalid Entry
<<- Invalid Entry (B43)
<<- Invalid Entry (B44)
<<- Invalid Entry (B38)
<<- Invalid Entry (B39)
<<- Invalid Entry (B33)
<<- Invalid Entry (B34)
<<- Invalid Entry (B28)
<<- Invalid Entry (B29)
<<- Invalid Entry (B36)
<<- Invalid Entry (B43)
<<- Invalid Entry (B31)
<<- Please enter F, H or B
<<- Enter RAM req'd in Cell B20
<<- Enter minimum of 0
<<- Must be = or < OS/2 users (B11)

FAR
ENOUGH!
No More Out There.
'====>>

