

IBM OS/2 LAN Server	V3.0 -- Configuration
Questions to Answer:	Response
Tom Gordy -- TOMGORDY @ AUSVM1 (BCJS75A on PI	
1. Server Name	SERVER01
2. Domain Name	DOMAIN01
3. Advanced or Entry Server	A
3a) Any FAT drives Shared?	N
3b) DC or Add'l Srvr?	DC
4. Total No. of DLR Reqs	0
5. DLR Reqs. with Windows	0
6. OS/2 Requesters	0
7. No. of Additional. Servers	0
8. No. of Apps Shared	0
9. Memory in Server	12
10. DLRINST used at SRV	N
11a) No. of DOS RPL Req	0
11b) No. of OS/2 RPL Req	0
12. No. of Home Directories	0
13. SRV used as Requester	N
14. No. of File/Printer Aliases	0
15. Application code on SRV	Y
16. Appl I/O Seqtl or Random	S
PAGE DOWN FOR NETWORK ADAPTER OPTIONS	

No. of LAN adapters used

PAGE DOWN FOR COMMUNICATIONS OPTIONS

IBM OS/2 Communications Options

Questions to Answer:

Response:

Other NETBIOS applications

N

LAN Netwk Manager on SRV?

N

SNA Gateway Support

N

APPC used on Server?

N

Server also RDS

N

Other IEEE 802.2 API Appls.

0

PAGE DOWN FOR ERROR MESSAGES

Adapter Number Check

#VALUE!

NETBIOS Sessions

#VALUE!

NETBIOS Commands

#VALUE!

NETBIOS Names

#VALUE!

Server RAM

OK

NETBIOS Work Areas (386)

#VALUE!

Adapter 1 (802.2 RAM)

OK

Adapter 2 (802.2 RAM)

OK

Adapter 3 (802.2 RAM)	OK	
Adapter 4 (802.2 RAM)	OK	
TL 802.2 RAM utilization(386)	OK	
802.2 Stations Required		#VALUE!
802.2 Users Required	OK	
Potential Problems/Warnings		#VALUE!

IF NO SIGNIFICANT ERRORS ARE DISPLAYED ABOVE (IN BL
PAGE DOWN FOR GENERATED IBMLAN.INI FILE AND CM C

; OS/2 LAN Server initialization file

[networks]

NET1 = NETBEUI\$,0,LM10,	#VALUE!
NET2 = NETBEUI\$,1,LM10,	#VALUE!
NET3 = NETBEUI\$,2,LM10,	#VALUE!
NET4 = NETBEUI\$,3,LM10,	#VALUE!

; 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

numalerts = 12

numcharbuf = 10

```
numservices =
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
TOO MANY ADAPTERS SPECIFIED!!!
```

[messenger]

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

[lsclient]

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

[netlogon]

```
SCRIPTS = D:\IBMLAN\REPL\IMPORT\SCRIPTS
pulse = 60
update = yes
```

[replicator]

```
replicate = IMPORT
IMPORTPATH = D:\IBMLAN\REPL\IMPORT
tryuser = yes
password =
```

interval = 5
guardtime = 2
pulse = 3
random = 60

[dcdbrepl]

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 =
maxlocks =
maxopens =
maxsearches =
maxsessopens = 80
maxsessreqs = 50

128

64

250

50

```

maxsessvcs = 1
maxshares = 32
netioalert = 5
numbigbuf = 12
numfiletasks = 1
numreqbuf = 64
sizereqbuf = 4096
svranndelta = 3000
svrannounce = 60
; The next lines help you to locate bits in the srvheuristics entry.
; 1
; 01234567890123456789
srvheuristics = 11110141112313100288
SRVSERVICES = NETLOGON,LSSERVER
TOO MANY ADAPTERS SPECIFIED!!!

```

[alerter]

```
sizalertbuf = 3072
```

[netrun]

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

[Lsserver]

```
cleanup = yes
srvpipes = 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\runsrvr.exe
remoteboot = services\rplsrvr.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 PARAM

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

;NetBIOS

ADAPTER 1

GDT Selectors ->

50

Maximum Sessions ->

#VALUE!

Maximum Commands ->	#VALUE!
Maximum Names ->	15
Remote Names(namecache) ->	#VALUE!
NETBIOS Retries ->	3
I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

Adapter 2.

GDT Selectors ->	50
Maximum Sessions ->	#VALUE!
Maximum Commands ->	#VALUE!
Maximum Names ->	15
Remote Names(namecache) ->	#VALUE!
NETBIOS Retries ->	3
I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

Adapter 3.

GDT Selectors ->	50
Maximum Sessions ->	#VALUE!
Maximum Commands ->	#VALUE!
Maximum Names ->	15
Remote Names (namecache)->	#VALUE!
NETBIOS Retries ->	3
I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

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
xxxx above should be -----> 2238

END OF
DATA

Worksheet 1.05

Errors:

RODIGY)

(Machine Name)

(A/E)

(Y/N)

AS/DC (DC=DomCntlr)

(0 if none)

(# out of tot DLR)

(0 if none)

(0 if none)

(3 Shares/App)

(MB, eg, 12 or 14)

(Y/N)

(# out of tot DLR)

(# out of tot OS/2 req)

(# if assigned)

(Y/N)

(1 Share/Alias)

(Y/N)

(S/R)

(0-4)

PROTOCOL.INI entries

<<- Please Enter a Valid Number

Potential Errors:

(Y/N)

(Y/N)

(Y/N)

(Y/N)

(Y/N)

(0 if none, 1 for Em Wks)

44340

6040

6040

6040

44870

.UE),
CONFIG PARAMETERS

#VALUE!
#VALUE!
#VALUE!
#VALUE!

LANDD_NIF
14NOTES: User a
14Ensure BINDINC
14Ensure BINDINC
14Ensure BINDINC

METERS

/C:xxx /USEALLMEM

PROTOCOL.INI

IEEE 802.2 Results

Maximum SAPS->	3
Maximum Link Stations->	0
802.2 Users ->	3
# Q Elements ->	800
Glbl Desc Tbl Selectrs->	30

NETBIOS Results

TOTAL RQMNTS

Maximum Sessions ->	32
Maximum Commands ->	51
Maximum Names ->	15
	5

[netbeui_nif]

5

ADAPTER 1

GDT Selectors ->	50
Maximum Sessions ->	#VALUE!
Maximum Commands ->	#VALUE!
Maximum Names ->	15
Remote Names(namecache) ->	#VALUE!
NETBIOS Retries ->	3
I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

Adapter 2.

GDT Selectors ->	50
Maximum Sessions ->	#VALUE!
Maximum Commands ->	#VALUE!
Maximum Names ->	15
Remote Names(namecache) ->	#VALUE!
NETBIOS Retries ->	3
I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

Adapter 3.

GDT Selectors ->	50
Maximum Sessions ->	#VALUE!
Maximum Commands ->	#VALUE!
Maximum Names ->	15
Remote Names (namecache)->	#VALUE!
NETBIOS Retries ->	3
I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

I-Frame Descriptors(packets) ->	350
UI-Frame Descriptors ->	2
looppackets=	1

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:\IE
xxxx above should be -----> 2238

ction required! LANDD_NIF

3S statement is correct!

3S statement is correct!

3S statement is correct!

Memory Calculations

12288<- Server RAM
8704<- Base Used
3584<- Available
322<- Memory used by INI options
3262<- Balance After INI options
2238<- Calculated HPFS Cache
0<- Calculated DISKCACHE
1024<- NET RUN, AT, print reserve

3MLAN /C:xxxx /USEALLMEM

Result

32

51

14

32

32

64

250

128

64

12

50

11110141112313100288.0000

3

18

#VALUE!

1214

IBMLAN.INI Paramters

- <- NET1, X1 operands total
- <- NET1, X2 operands total
- <- NET1, X3 operands
- <- MAXUSERS
- <- MAXSHARES
- <- MAXLOCKS
- <- MAXOPENS
- <- MAXCONNECTIONS
- <- NUMREQBUF
- <- NUMBIGBUF
- <- MAXSEARCHES
- <- SRVHEURISTICS
- <- SRVPIPES
- <- NUMSERVICES

- <- Server RAM Check

Potential Errors

Memory Requi

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

OS/2 2.0
NTS/2
Adv Svr

Total
INI+Cache
MemUsed

#VALUE!

red

Assumptions:

2.75	If Busmaster - 32 bit Adapter is used	
0.4	Messenger Service on SRV=	1
5.4	numfiletasks=	1
	NetBIOS names to requester	3
	NetBIOS names to server	4
	Default net1,X3 param	14
	# of Group SAPs	0
	LazyWrite Enabled	Yes
8.55		
3.5		
12.05		

Work Area

0<- Total Requesters on Server
0<- Additional Servers
0<- User Logged onto Server (2=Y
0<- Addit. Connections to servers i
0<- DLRINST used (1=Y, 0=N)
0<- Remote IPL used (2=Y,0=N)
1<- X1 Intermediate Result
0<- Additional NETBIOS Stations
0<- Additional NETBIOS Commar
0<- Additional NETBIOS Sessions
0<- Additional NETBIOS Names I
0<- SNA SAP req'd (1=Y, 0=N)
0<- Constant, '0'
0<- SQLLOO SAP req'd (1=Y, 0=
0<- IBM LAN Manager SAP Req'
0<- Other 802.2 Applications Requ
2<- Total 802.2 SAPs req'd
2<- Number of 802.2 Transmit Bu
0<- IBM LAN Manager Stations R
0<- SNA Gateway Stations Requir
0<- APPC Stations Required
0<- RDS OS/2 Stations Required
0<- RDS DOS Stations Required
0<- IEEE 802.2 Applications Stat
0<- Total Additional Stations Requ
1<- Total 802.2 Users Required (5
1<- Sequential (1), or Random ope
3<- Programs Loaded from Server
32<- NETBIOS Sessions (Intermedi
0<- Potential error check (part 1 of
#VALUE!<- Potential error check (part 2 of
<- DISKCACHE Required
<- HPFS cache Required

N
Y

keepconn = 600
keepsearch = 600

Yes, 0=No)
if SRV used as Req

Required
nds Required
s Required
Required

N)
d (1=Y,0=N)
irements.

ffers
equired.
ed

ons Required
ired
Max allowed)
rations (0), mainly
(3=Y,1=N)
iate result)
3) 0=none, 1=problem
3) 0=none, 1=problem

; 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
```

)

```
maxcmds = 16  
maxerrorlog = 100  
maxthreads = 10  
maxwrkcache = 64  
numalerts = 12  
numcharbuf = 10  
numservices =  
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 = D:\IBMLAN\REPL\IMPORT\SCRIPTS  
pulse = 60  
update = yes
```

[replicator]

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

[dcdbrepl]

```
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
srvandelta = 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]

```
sizalertbuf = 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

dldrinst = services\dldrinst.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 /I:d:\IBMI

IFS=x:\OS2\HPFS.IFS /CACHE:xxxx /CRECL:yyy

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
<<- Adapter 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!!!
<<- Too Many Cmds Required for adapter(s) to support (See H14)
<<- Too Many Stations Required for adapter(s) to support
<<- 1016 or More Names Required!!!
<<- Too Many, 12 Max
<<- 16/4 or Busmaster Recommended
<<- 16/4 or Busmaster REQUIRED
<<- Additional Server RAM Recommended
<<- 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 B
<<- Busmaster Adapter Recommended
EarlyRelease=yes, XmitBufs=2
EarlyRelease=yes Adapter=alternate XmitBufs=2
<<- Busmaster Adapter REQUIRED
<<- Invalid Entry - Must be B
AdapBufSize=2048 SizWorkBuf=2240
MaxTransmits=49 MinRcvBufs=100

ReceiveChains=24 MaxTransmits=24
DriverName=ubnei\$ MaxTransmits=50
DriverName=elnkii\$ MaxTransmits=40
DriverName=elnkmc\$ MaxTransmits=40
<<- Invalid response
More Adapters REQUIRED!!!
Maxtransmits=49
<<- Invalid Entry (B27)
DriverName=maceth\$ MaxRequests=16
DriverName=macwd\$ MaxRequests=16
<<- Invalid Entry (B32)
<<- Invalid Entry (B37)
<<- Invalid Entry (B42)
ReceiveBuffers=24
MaxRequests=10
DriverName=ibmtrdb\$
DriverName=ibmtok\$ MaxTransmits=50
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 (B41)
<<- Invalid Entry (B31)

LAN /C:xxxx /USEALLMEM

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

