

IBM OS/2 LAN Server	V3.0 -- Configuration	
Questions to Answer:	Response	
Tom Gordy -- TOMGORDY @ AUSVM1 (BCJS75A)		
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		8
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		1
Adapter 1 TRN or E-Net		

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

OK

NETBIOS Sessions

OK

NETBIOS Commands

OK

NETBIOS Names

OK

Server RAM

OK

NETBIOS Work Areas (386)

OK

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	OK
802.2 Users Required	OK
Potential Problems/Warnings	NONE

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,

32

; 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  
wrknets = net1
```

[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
svvanndelta = 3000
svvannounce = 60
; The next lines help you to locate bits in the srvheuristics entry.
; 1
; 01234567890123456789
srvheuristics = 11110141112313100288
SRVSERVICES = NETLOGON,LSSERVER
svvnets = net1

```

[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\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 PARAM

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

;NetBIOS

ADAPTER 1

GDT Selectors -&gt;

50

Maximum Sessions -&gt;

40

Maximum Commands -&gt;	95
Maximum Names -&gt;	15
Remote Names(namecache) -&gt;	20
NETBIOS Retries -&gt;	3
I-Frame Descriptors(packets) -&gt;	400
UI-Frame Descriptors -&gt;	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 -----&gt; 2238

END OF  
DATA



Worksheet 1.04

Errors:

on PRODIGY)

(Machine Name)

(A/E)

(Y/N)

AS/DC (DC=Domain Cntrl)

(0 if none)

(# out of total DLR)

(0 if none)

(0 if none)

(3 Shares/App)

(MB, eg, 12 or 14)

(Y/N)

(# out of total DLR)

(# out of total OS/2 req)

(# if assigned)

(Y/N)

(1 Share/Alias)

(Y/N)

(S/R)

PROTOCOL.INI entries

(0-4)

(T/E)

Potential Errors:

(Y/N)

(Y/N)

(Y/N)

(Y/N)

(Y/N)

(0 if none, 1 for Em Wks)

44870

.UE),  
CONFIG PARAMETERS

51

LANDD\_NIF  
14

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

#### [netbeui\_nif]

	1
ADAPTER 1	
GDT Selectors -&gt;	50
Maximum Sessions -&gt;	40
Maximum Commands -&gt;	95
Maximum Names -&gt;	15
Remote Names(namecache) -&gt;	20
NETBIOS Retries -&gt;	3
I-Frame Descriptors(packets) -&gt;	400
UI-Frame Descriptors -&gt;	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 -----&gt; 2238



## 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
NETBIOS	
	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  
OK  
OK  
OK  
OK  
OK

OS/2 2.0  
NTS/2  
Adv Svr

Total  
INI+Cache  
MemUsed

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

8<- 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)  
9<- 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  
0<- 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  
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

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  
<<- 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=40

ReceiveChains=24 MaxTransmits=24  
DriverName=ubnei\$ MaxTransmits=50  
DriverName=elnkii\$ MaxTransmits=40  
DriverName=elnkmc\$ MaxTransmits=40  
<<- Invalid response  
More Adapters REQUIRED!!!

LAN /C:xxxx /USEALLMEM

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

