

IBM OS/2 LAN Server	V3.0 -- Configuration	
Questions to Answer:	Response	
Comments? -- AUSVM1(TOMGORDY) or IBMMAIL(USIB22M6) (
1. Server Name	SERVER01	
2. Domain Name	DOMAIN01	
3. Advanced or Entry Server	A	
3a) Fat,Hpfs or Both shared?	H	
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 by SRVR		0
9. Memory in Server		14
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. Is a user at the Srv kbd?	N	
13a) App RAM reserve (MB)		1
14. No.of Aliases (File/Print)		0
15.Apps downloaded from Srv?	N	
16. Appl I/O Seqtl or Random	R	
17. No.LAN attchd prntrs used.		0
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:

LOTUS NOTES on Server? N

Other NETBIOS applications N

LAN Netwk Manager on SRV? N

CM/2 SNA Gateway on Srv? N

APPC used on Server? N

DB2/2 on Server? N

Other IEEE 802.2 API Appls. 0

PAGE DOWN FOR ERROR MESSAGES

SVNETBUF OK

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 (ALL ' ')
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 = 18
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 = 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

[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

128

64

250

50

```

maxsessreqs = 50
maxsessvcs = 1
maxshares = 32
netioalert = 5
numbigbuf = 12
numfiletasks = 1
numreqbuf = 96
sizreqbuf = 4096
srvanndelta = 3000
srvannounce = 60
; The next lines help you to locate bits in the srvheuristics entry.
;           1
;           01234567890123456789
srvheuristics = 11110141112312999936
SRVSERVICES = NETLOGON,LSSERVER
svnets = 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 (selectors) ->

Maximum Sessions (sessions) ->	40
Max Commands (ncbs) ->	95
Maximum Names (names) ->	15
Rmt Names (namecache) ->	20
NETBIOS Retries (netbiosretries) ->	3
I-Frame Dscptors (packets) ->	410
UI-Frm Dscr's (datagrampackets) ->	2
looppackets= -->	1
maxdatarcv= -->	4456
adaptrate= -->	300

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 -----> 2746

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

END OF
DATA

Worksheet 1.08

03/02/94

Errors:

or TOMGORDY@AUSVM1.VNET.IBM.COM

(Machine Name)

(A/E)

(F/H/B)

AS/DC (DC=Dom Cntrl)

(0 if none)

(# out of total DLR)

(0 if none)

(0 if none)

(3 Shares/App)

(MB, eg, 14 or 16)

(Y/N)

(# out of total DLR)

(# out of total OS/2 req)

(# if assigned)

(Y/N)

(Pos #, Min=1MB)

(1 Share/Alias)

(Y/N)

(S/R)

(4033/HP, 0 to 24)

PROTOCOL.INI entries

(0--4)

(T/E)

Potential Errors:

(Y/N)

(Y/N)

(Y/N)

(Y/N)

(Y/N)

(Y/N)

(0 if none, 1 for Em Wks)

6040

60000

49510

OK'),
CONFIG PARAMETERS

64

LANDD_NIF
14

METERS

/C:xxxx /USEALLMEM

PROTOCOL.INI

IEEE 802.2 Results

Max SAPS (max_saps) ->	3
MaxLinkStations (links) ->	0
802.2 Users (users) ->	3
# Q Elements (elements) ->	800
Glbl Desc Tbl Slectors (gdts) ->	30

NETBIOS Results

TOTAL RQMNTS

Maximum Sessions ->	32
Max Commands (ncbs)->	65
Maximum Names ->	15

[netbeui_nif]

	1
Adapter 1.	
GDT Selectors (selectors) ->	5
Maximum Sessions (sessions) ->	40
Max Commands (ncbs) ->	95
Maximum Names (names) ->	15
Rmt Names (namecache) ->	20
NETBIOS Retries (netbiosretries) ->	3
I-Frame Dscriptors (packets) ->	410
UI-Frm Dscr's (datagrampackets) ->	2
looppackets= -->	1
maxdatarcv= -->	4456
adaptrate= -->	300

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 -----> 2746

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

14336

9984

4352

582

3770

2746

0

1024

3MLAN /C:xxxx /USEALLMEM

Memory Calculations

- <- Server RAM
- <- Base Used
- <- Available
- <- Memory used by INI options
- <- Balance After INI options
- <- Calculated HPFS Cache
- <- Calculated DISKCACHE
- <- Apps, NET RUN, AT, print reserve

Result

IBMLAN.INI Paramters

32<- NETx, X1 operands total
64<- NETx, X2 operands total
14<- NETx, X3 operands
32<- MAXUSERS
32<- MAXSHARES
64<- MAXLOCKS
250<- MAXOPENS
128<- MAXCONNECTIONS
96<- NUMREQBUF
12<- NUMBIGBUF
50<- MAXSEARCHES
11110141112312999936.0000 <- SRVHEURISTICS
3<- SRVPIPES
18<- NUMSERVICES

NETBIOS

698<- Server RAM Check
14<- NUMDGRAMBUF

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

OS/2 2.1
NTS/2
Adv Srvr

Heap
CacheMgmt
802.2 reqmnts
Tot al
INI+Cache
MemUsed

red

Assumptions:

2.75 Streamer = LANStreamer Adapter
0.40 Messenger Service on SRV=
5.40 numfiletasks=
NetBIOS names to requester
NetBIOS names to server
Default net1,X3 param
of Group SAPs (max_g_saps)
LazyWrite Enabled

0.64 User Settable Assumptions
0.06 802.2 I-Frame descriptors (ipackets)
0.50 802.2UI Frame descriptors(ui_packets)
9.75 802.2 Timer Control Blocks (tcbs)
4.20 INI Maxconnections for DOS users
13.95 INI Maxconnections for Windows users
INI Maxconnections for OS/2 users
NetBIOS Commands per LS30/A user
NetBIOS Commands per LS30/E user
Maxlocks as fraction of Maxopens
DOS user maxopens
Windows user maxopens
OS/2 user maxopens
minimum reqbufs per LS30/A user
minimum reqbufs per LS30/E user
Maximum bigbufs to generate
maxsearches per user

Work Area

Current	Default Value	Description
		0<- Total Reque
		0<- Additional S
1		0<- User Logge
1		0<- Addit. Conn
3		0<- DLRINST u
4		0<- NOTES Net
14		0<- Remote IPL
0		1<- X1 Interme
Yes		0<- Additional M
		0<- Additional M
		0<- Additional M
250		0<- SNA SAP re
100		0<- 4033 SAP re
64		0<- SQLLOO S.
6		0<- IBM LAN M
9		0<- Other 802.2
12		2<- Total 802.2
2		2<- Number of 8
1.6		0<- IBM LAN M
0.10		0<- SNA Gatew
10		0<- APPC Static
45		0<- RDS OS/2 S
55		0<- RDS DOS S
3		0<- IEEE 802.2
2		0<- Total 802.2
80		1<- Total 802.2
0.30		0<- Sequential (
		1<- Programs Lc
		32<- NETBIOS S
		0<- Potential err
		0<- Potential err
	N	<- DISKCACE
	Y	<- HPFS cache
		1024<- Server RAM
		0<- DISKCACE
		0<- DISKCACE
		2746<- HPFS cache

2048<- HPFS cache
0<- NetBIOS Se
0<- NetBIOS Se
0<- CM/2 Distri

sterns on Server
Servers
Load onto Server (2=Yes, 0=No)
Connections to servers if SRV used as Req
used (1=Y, 0=N)
BIOS Session requirements
used (2=Y,0=N)
Final Result
NETBIOS Commands Required
NETBIOS Sessions Required
NETBIOS Names Required
req'd (1=Y, 0=N)
Requirements
AP req'd (1=Y, 0=N)
Network Manager SAP's Req'd (1=Y,0=N)
Applications Requirements.
SAPs req'd
302.2 Transmit Buffers
Network Manager Stations Required.
Gateway Stations Required
Ports Required
Stations Required
Stations Required
Applications Stations Required
Stations Required
Users Required (12 Max allowed)
1), or Random operations (0), mainly
loaded from Server (3=Y,1=N)
Sessions (Intermediate result)
or check (part 1 of 3) 0=none, 1=problem
or check (part 2 of 3) 0=none, 1=problem
IE Required
Required
1 reserved for local apps
IE for Advanced server
IE for Entry server
Required for Advanced server

for Entry server
sessions work area (1)
sessions work area (2)
distributed Feature users

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
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:\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

[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  
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]

```
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

IFS=x:\IBM386FS\HPFS386.IFS x:\IBM386FS\HPFS200.386 /I:d:\IBMI
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)

LAN /C:xxxx /USEALLMEM

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

