

Sheet1

IBM OS/2 LAN Server

Questions to Answer:

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1. Server Name
2. Domain Name
3. Advanced or Entry Server
 - 3a) FAT, HPFS or Both shrd?
 - 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
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. Applications run on SRV?
 - 13a) App RAM reserve (MB)
14. No.of File/Printer Aliases
15. Application code on 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

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 (IN BLUE),
PAGE DOWN FOR GENERATED IBMLAN.INI FILE AND CM CONFIG PARAMETERS

; OS/2 LAN Server initialization file

[networks]

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

[replicator]

replicate = IMPORT
IMPORTPATH = D:\BMLAN\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

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```
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
```

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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

Selectors ->

Maximum Sessions ->

Max Commands (ncbs)->

Maximum Names ->

Rmt Names(namecache) ->

NETBIOS Retries ->

I-Frame Dsc'rs(packets) ->

Datagrampackets ->

looppackets=

maxdatarcv -->

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:\OS2\CACHE386.EXE /LAZY:ON /MAXAGE:10000

V3.0 -- Configuration Worksheet 1.07

Response

11/20/93

Errors:

SERVER01	(Machine Name)
DOMAIN01	
A	(A/E)
H	(F/H/B)
DC	AS/DC (DC=DomCntlr)
	0 (0 if none)
	0 (# out of tot DLR)
	0 (0 if none)
	0 (0 if none)
	0 (3 Shares/App)
	12 (MB, eg, 12 or 14)
N	(Y/N)
	0 (# out of tot DLR)
	0 (# out of tot OS/2 req)
	0 (# if assigned)
N	(Y/N)
	1 (Pos #, Min=1MB)
	0 (1 Share/Alias)
N	(Y/N)
S	(S/R)
	0 (4033/HP,0 to 24)

PROTOCOL.INI entries

1 (0-4)
(T/E)

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Response:

Potential Errors:

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

0 (0=none, 1 for Em Wks)

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

59350.00
6040.00

44870.00

#NAME?

32

94.00

14.00

32.00

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128.00
64.00
250.00
50.00

32.00

12.00

96.00

3.00

50.00
40.00
95.00
15.00
20.00
3.00
400.00
2.00
1.00
4456

2106.00

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 Sltrs(gdts)->

IEEE 802.2 Results

NETBIOS Results
TOTAL RQMNTS

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

[netbeui_nif]

ADAPTER 1

Selectors ->
Maximum Sessions ->
Max Commands (ncbs)->
Maximum Names ->
Rmt Names(namecache) ->
NETBIOS Retries ->
I-Frame Dsc'rs(packets) ->
Datagrampackets ->
looppackets=
maxdatarcv -->

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:\OS2\CACHE386.EXE /LAZY:ON /MAXAGE:10000

Sheet1

	Memory Calculations	Result
3.00	12288.00 <- Server RAM	32.00
0.00	8704.00 <- Base Used	64.00
3.00	3584.00 <- Available	14.00
800.00	454.00 <- Memory used by INI options	32.00
30	3130.00 <- Balance After INI options	32.00
	2106.00 <- Calculated HPFS Cache	64.00
	0.00 <- Calculated DISKCACHE	250.00
	1024.00 <- Apps, NET RUN, AT, print reserve	128.00
		96.00
32.00		12.00
64.00		50.00
15.00		11110141112313001331
		3.00
		18
		#NAME?
1.00		58.00
50.00		
40.00		
95.00		
15.00		
20.00		
3.00		
400.00		
2.00		
1.00		
4456		

2106.00

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IBMLAN.INI Paramters	Potential Errors	Memory Required	
<- NET1, X1 operands total	OK		
<- NET1, X2 operands total	OK	OS/2 2.0	2.75
<- NET1, 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	Total	8.55
<- SRVHEURISTICS		INI+Cache	3.50
<- SRVPIPES	OK	MemUsed	12.05
<- NUMSERVICES	OK		
	#NAME?		
<- Server RAM Check	OK		

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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
Default net1,X3 param	14	0.00
# of Group SAPs	0	1.00
LazyWrite Enabled	Yes	0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0
		2.00
		2.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		1.00
		1.00
		1.00
		32.00
		0.00
		#NAME?
	N	
	Y	
		1024
		0.00
		0.00
		2106
		2048
		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 Sessiions requirement
- <- 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 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 Manager Stations Required.
- <- SNA Gateway Stations Required
- <- APPC Stations Required
- <- DB2/2 OS/2 Stations Required
- <- DB2/2 DOS Stations Required
- <- IEEE 802.2 Applications Stations Required
- <- Total Additional 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)

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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

numalerts = 12

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```
numcharbuf = 10
numservices =
numworkbuf = 15
numdgrambuf = 14
```

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

[replicator]

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

[dcdbrepl]

```
tryuser = yes
```

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```
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 /l:d:\IBMLAN /C:xxxx /USEALLMEM
IFS=x:\OS2\HPFS.IFS /CACHE:xxxx /CRECL:yyy

32.00

othdomains =
printbuftime = 90
sesstimeout = 45
sizcharbuf = 512
sizerror = 1024

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!!!
<<- Add adapters for performance (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, XmitBufs=2
EarlyRelease=yes Adapter=alternate XmitBufs=2
<<- 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
<<- 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 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)
<<- Please enter F, H or B
<<- Enter RAM req'd in Cell B20
<<- Enter minimum of 0
<<- Must be < or = OS/2 Req (B11)

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

