

Sheet1

IBM OS/2 LAN Server

Questions to Answer:

Tom Gordy -- TOMGORDY @ AUSVM1 (BCJS75A on PRODIGY)

1. Server Name
2. Domain Name
3. Advanced or Entry Server
 - 3a) Any FAT drives 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
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. SRV used as Requester
14. No. of File/Printer Aliases
15. Application code on SRV
16. Appl I/O Seqtl or Random

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:

Other NETBIOS applications

LAN Netwk Manager on SRV?

SNA Gateway Support

APPC used on Server?

Server also RDS

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

[dcdbrepl]

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 ->

Maximum Sessions ->

Maximum Commands ->

Maximum Names ->

Remote Names(namecache) ->

NETBIOS Retries ->

I-Frame Descriptors(packets) ->

UI-Frame Descriptors ->

looppackets=

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 ----->

V3.0 -- Configuration Worksheet 1.04

Response

Errors:

SERVER01	(Machine Name)
DOMAIN01	
A	(A/E)
N	(Y/N)
DC	AS/DC (DC=Domain Cntrlr)
	0 (0 if none)
	0 (# out of total DLR)
	8 (0 if none)
	0 (0 if none)
	0 (3 Shares/App)
	12 (MB, eg, 12 or 14)
N	(Y/N)
	0 (# out of total DLR)
	0 (# out of total OS/2 req)
	0 (# if assigned)
N	(Y/N)
	0 (1 Share/Alias)
Y	(Y/N)
S	(S/R)

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)

0 (0 if none, 1 for Em Wks)

OK	
OK	
OK	
OK	
OK	
OK	59350.00
OK	6040.00
OK	
OK	
OK	
OK	44870.00
OK	
OK	

#NAME?

32	51.00	14.00	LANDD_NIF
----	-------	-------	-----------

32.00

128.00
64.00

Sheet1

250.00
50.00

32.00

12.00

64.00

3.00

50.00
40.00
95.00
15.00
20.00
3.00
400.00
2.00
1.00

2238.00

END OF
DATA

Sheet1

PROTOCOL.INI

Maximum SAPS->
Maximum Link Stations->
802.2 Users ->
Q Elements ->
Glbl Desc Tbl Selectrs->

IEEE 802.2 Results

NETBIOS Results TOTAL RQMNTS

Maximum Sessions ->
Maximum Commands ->
Maximum Names ->

[netbeui_nif]

ADAPTER 1

GDT Selectors ->
Maximum Sessions ->
Maximum Commands ->
Maximum Names ->
Remote Names(namecache) ->
NETBIOS Retries ->
I-Frame Descriptors(packets) ->
UI-Frame Descriptors ->
looppackets=

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 ----->

Sheet1

	Memory Calculations	Result
3.00	12288.00 <- Server RAM	32.00
0.00	8704.00 <- Base Used	51.00
3.00	3584.00 <- Available	14.00
800.00	322.00 <- Memory used by INI options	32.00
30.00	3262.00 <- Balance After INI options	32.00
	2238.00 <- Calculated HPFS Cache	64.00
	0 <- Calculated DISKCACHE	250.00
	1024.00 <- NET RUN, AT, print reserve	128.00
		64.00
32.00		12.00
51.00		50.00
15.00		11110141112313101331
		3.00
		18
		#NAME?
1.00		1214.00
50.00		
40.00		
95.00		
15.00		
20.00		
3.00		
400.00		
2.00		
1.00		

2238.00

Sheet1

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	OK	INI+Cache	3.50
<- SRVPIPES	OK	MemUsed	12.05
<- NUMSERVICES	OK		
	#NAME?		
<- Server RAM Check	OK		

Sheet1

Assumptions:		Work Area
If Busmaster - 32 bit Adapter is used		8.00
Messenger Service on SRV=	1	0
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	0	9.00
LazyWrite Enabled	Yes	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
		1.00
		1.00
		3.00
		32.00
		0.00
		#NAME?
	N	
	Y	

<- 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)
<- Remote IPL used (2=Y,0=N)
<- X1 Intermediate Result
<- Additional NETBIOS Stations Required
<- Additional NETBIOS Commands Required
<- Additional NETBIOS Sessions Required
<- Additional NETBIOS Names Required
<- SNA SAP req'd (1=Y, 0=N)
<- Constant, '0'
<- SQLLOO SAP req'd (1=Y, 0=N)
<- IBM LAN 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
<- RDS OS/2 Stations Required
<- RDS DOS Stations Required
<- IEEE 802.2 Applications Stations Required
<- Total Additional Stations Required
<- Total 802.2 Users Required (5 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

Sheet1

.

keepconn = 600
keepsearch = 600

; 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

```
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
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

128.00

othdomains =
printbuftime = 90

sessttimeout = 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
<<- Invalid 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=eInkii\$ MaxTransmits=40
DriverName=eInkmc\$ MaxTransmits=40
<<- Invalid response
More Adapters REQUIRED!!!

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

