

Sheet1

IBM OS/2 LAN Server Ver 1.30.1 ---

Questions to Answer:

Tom Gordy -- GORDY at DALVM41B (BCJS75A on PRODIGY)

1. Server Name
2. Domain Name
3. Total No. of DLR Reqs.
4. DLR Reqs. with Windows
5. OS/2 Requesters
6. No. of Additional. Servers
7. No. of Apps Shared
8. Memory in Server
9. DLRINST used at SRV
10. No. of RIPL Requesters
11. No. of Home Directories
12. SRV used as Requester
13. No. of File/Printer Aliases
14. Application code on SRV
15. 16/4 TRN Adapter
16. Appl I/O Seqtl or Random

PAGE DOWN FOR COMMUNICATIONS MANAGER OPTIONS AND ERROR MESSAGES

IBM OS/2 Ver 1.3 Communications Manager Options

Questions to Answer:

Other NETBIOS applications

IBM LAN Manager on SRV?

SNA Gateway Support

APPC Support Req'd

Server also RDS

Other IEEE 802.2 API Appls.

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NETBIOS Stations

Sheet1

NETBIOS Sessions  
NETBIOS Commands  
NETBIOS Names  
Server RAM  
NETBIOS Work Area  
Adapter RAM  
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]

; This information is read by the redirector at device initialization time.

net1 = netbios\$, 0, NB30,

[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 = 32  
maxerrorlog = 100  
maxthreads = 20  
maxwrkcache = 64  
numalerts = 12  
numcharbuf = 10  
numservices =  
numworkbuf = 15  
numdgrambuf = 14  
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  
;           012345678901234567890123456789012  
wrkheuristics = 111111111131111111000101112011102
```

```
wrknets = net1  
WRKSERVICES = MESSENGER,NETPOPOP
```

```
[messenger]  
logfile = messages.log  
sizmessbuf = 4096
```

```
[netlogon]  
SCRIPTS = C:\IBMLAN\REPL\IMPORT\SCRIPTS  
pulse = 60  
update = yes
```

```
[replicator]  
replicate = IMPORT  
importpath = C:\IBMLAN\REPL\IMPORT  
exportpath = C:\IBMLAN\REPL\EXPORT  
tryuser = yes  
password =  
interval = 5  
guardtime = 2  
pulse = 3  
random = 60
```

```
[server]  
alertnames =  
auditing = yes  
autodisconnect = 120  
cleanup = no  
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
```



Sheet1

server = services\netsvini.exe  
alerter = services\alerter.exe  
netlogon = services\netlogon.exe  
replicator = services\replicat.exe  
pcdosrpl = services\pcdosrpl.exe  
netrun = services\runservr.exe

PAGE DOWN FOR GENERATED COMM MGR CONFIG PARAMETERS

```
; IEEE 802.2
;Maximum SAPS->
; Maximum Link Stations->
;Number of 802.2 Users->
;Transmit Buffer Size->
;Transmit Buffer Count ->
;Number of Queue Elements->
;Global Descriptor Table Selectors->
;
;NetBIOS
;Datagrams use remote directory->
;Maximum Link Stations->
;Maximum Sessions->
;Maximum Commands->
;Maximum Names->
;Remote Name Directory Size ->
;
;CONFIG.SYS
DISKCACHE=xxxx,8
IFS=C:\OS2\HPFS.IFS -C:
RUN=C:\OS2\CACHE.EXE /LAZY:ON
;
```



Configuration Worksheet Version 1.05

Response:

|          |    |                      |
|----------|----|----------------------|
| SERVER01 |    | (Machine Name)       |
| DOMAIN01 |    |                      |
|          | 0  | (0 if none)          |
|          | 0  | (# out of total DLR) |
|          | 0  | (0 if none)          |
|          | 0  | (0 if none)          |
|          | 0  | (3 Shares/App)       |
|          | 10 | (MB, eg, 10)         |
| n        |    | (Y/N)                |
|          | 0  | (# out of total DLR) |
|          | 0  | (# if assigned)      |
| n        |    | (Y/N)                |
|          | 0  | (1 Share/Alias)      |
| y        |    | (Y/N)                |
| y        |    | (Y/N)                |
| s        |    | (S/R)                |

Response:

n (Y/N)

n (Y/N)

n (Y/N)

n (Y/N)

n (Y/N)

0 eg, (0 if none, 1 if Em)

OK

OK  
OK  
OK  
OK  
OK  
OK  
OK  
OK  
OK

<<- See Column K for More Information

32.00

83.00



32.00

Sheet1

192.00  
64.00  
64.00  
50.00  
55

16.00  
9.00  
1  
64.00

3.00

1111014111331210133

3.00  
33.00  
3.00  
1048.00  
2.00  
800  
30

YES

32.00  
32.00  
83.00  
17.00  
32.00

3940 <- Replaces xxxx in DISKCACHE statement  
256.00

Potential Errors:

IEEE 802.2 Results

|                             |         |
|-----------------------------|---------|
| Maximum SAPS->              | 3.00    |
| Maximum Link Stations->     | 33.00   |
| 802.2 Users ->              | 3.00    |
| Transmit Buffer Size->      | 1048.00 |
| Transmit Buffer Count ->    | 2.00    |
| # Queue Elements->          | 800     |
| Glbl Desc Table Selectors-> | 30      |

<<- Please Enter Y or N

NETBIOS Results

|                              |       |
|------------------------------|-------|
| Datagrams use rmt directry-> | YES   |
| Maximum Link Stations->      | 32.00 |
| Maximum Sessions ->          | 32.00 |
| Maximum Commands ->          | 83.00 |
| Maximum Names ->             | 17.00 |
| Number of Remote Nms->       | 32.00 |

<<- Please Enter Y or N

<<- Please Enter Y or N

<<- Please Enter Y or N

<<- Please Enter S or R

CONFIG.SYS

|                               |        |
|-------------------------------|--------|
| DISKCACHE=xxxx,8              | 3940   |
| IFS=C:\OS2\HPFS.IFS -C:       | 256.00 |
| RUN=C:\OS2\CACHE.EXE /LAZY:ON |        |

Potential Errors:

<<- Please Enter Y or N

<<- Please Enter Y or N

<<- Please Enter Y or N

<<- Please Enter Y or N

<<- Please Enter Y or N

32.00

Sheet1

32.00  
83.00  
17.00  
5220.00  
30826.00  
19380.00  
1.00  
1.00

16.00



Sheet1

| Memory Calculations                  | Result              |
|--------------------------------------|---------------------|
| 10240.00 <- Server RAM               | 32.00               |
| 4096.00 <- Base Used                 | 83.00               |
| 6144.00 <- Available                 | 16.00               |
| 924.00 <- Memory used by INI options | 32.00               |
| 5220.00 <- Balance After INI options | 16.00               |
| 256.00 <- Calculated Cache           | 64.00               |
| 3940 <- Calculated DISKCACHE size    | 64.00               |
| 1024.00 <- Balance After Caches      | 192.00              |
|                                      | 64.00               |
|                                      | 9.00                |
|                                      | 55                  |
|                                      | 50.00               |
|                                      | 1111014111331210133 |
|                                      | 3.00                |
|                                      | 8                   |
|                                      | #NAME?              |
|                                      | 3940                |

<- Replaces xxxx in DISKCACHE statement

Sheet1

| IBMLAN.INI Paramters | Potential Errors | Memory Required |      |
|----------------------|------------------|-----------------|------|
| <- NET1, X1 operand  | OK               |                 |      |
| <- NET1, X2 operand  | OK               | Kernel          | 2    |
| <- NET1, X3 operand  | OK               | CM Base         | 0.10 |
| <- MAXUSERS          | OK               | L Serv          | 2.10 |
| <- MAXSHARES         | OK               |                 |      |
| <- MAXLOCKS          | OK               |                 |      |
| <- MAXOPENS          | OK               |                 |      |
| <- MAXCONNECTIONS    | OK               |                 |      |
| <- NUMREQBUF         | OK               | Sub-Total       | 4.20 |
| <- NUMBIGBUF         | OK               | INI+Cache       | 5    |
| <- MAXSESSOPENS      | OK               | Mem Used        | 9.2  |
| <- MAXSEARCHES       | OK               |                 |      |
| <- SRVHEURISTICS     |                  |                 |      |
| <- SRVPIPES          | OK               |                 |      |
| <- NUMSERVICES       | OK               |                 |      |
|                      | #NAME?           |                 |      |
| <- Server RAM Check  | OK               |                 |      |



Sheet1

| Assumptions:                    |      | Work Area |
|---------------------------------|------|-----------|
|                                 |      | 0.00      |
| sizreqbuf=                      | 4096 | 0         |
| Messenger Service on SRV=       | 1    | 0.00      |
| numfiletasks=                   | 1    | 0.00      |
| NetBIOS names to requester      | 3    | 0.00      |
| NetBIOS names to server         | 4    | 0.00      |
| maxchdevjob=                    | 6    | 1.00      |
| maxchdevs=                      | 2    | 0.00      |
| maxchdevq=                      | 16   | 0.00      |
| Default net1,X3 param           | 16   | 0.00      |
| # of Group SAPs                 | 0    | 0.00      |
| Srvheuristic # 5                | 1    | 0.00      |
| Srvheuristic # 10               | 3    | 0.00      |
| Srvheuristic #11                | 3    | 0.00      |
| Srvheuristic #17                | 3    | 0.00      |
| HPFS used on IBMLAN Drive       | Yes  | 0         |
| LazyWrite Enabled               | Yes  | 2.00      |
| MAX Allowable Open Files at REQ | 55   | 2.00      |
|                                 |      | 0.00      |
|                                 |      | 0.00      |
|                                 |      | 0.00      |
|                                 |      | 0.00      |
|                                 |      | 0.00      |
|                                 |      | 0.00      |
|                                 |      | 0.00      |
|                                 |      | 1.00      |
|                                 |      | 1.00      |
|                                 |      | 0.00      |
|                                 |      | 1.00      |
|                                 |      | 32        |
|                                 |      | 256       |
|                                 |      | 0         |
|                                 |      | 0         |
|                                 |      | #REF!     |

<- 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 Radom operations (0), mainly  
<- Programs Loaded from Server (3=Y,1=N)  
<- NETBIOS Sessions (Intermediate result)  
<- First cut at HPFS cache size  
<- RDS used (1=Y, 0=N)  
<- Potential error check (0=none, 1=problem)  
<- Server memory check - Part 1

Sheet1

; OS/2 LAN Server initialization file

[networks]

; This information is read by the redirector at device initialization time.

net1 = netbios\$, 0, NB30, 32, 32, 16

[requester]

COMPUTERNAME = O1

DOMAIN = O

; The following parameters generally do not need to be

; changed by the user.

charcount = 16

chartime = 250

charwait = 3600

keepconn = 600

keepsearch = 600

maxcmds = 32

maxerrorlog = 100

maxthreads = 20

maxwrkcache = 64

numalerts = 12

numcharbuf = 10

numservices = 8

numworkbuf = 15

numdgrambuf = 14

printbuftime = 90

Sheet1

```
sesstimeout = 45
sizcharbuf = 512
sizerror = 1024
sizworkbuf = 4096
```

```
; The next lines help you to locate bits in the wrkheuristics entry.
;
;           1           2           3
;           012345678901234567890123456789012
wrkheuristics = 111111111131111111000101112011102
```

```
wrknets = net1
WRKSERVICES = MESSENGER,NETPOPOP
```

```
[messenger]
logfile = messages.log
sizmessbuf = 4096
```

```
[netlogon]
SCRIPTS = C:\BMLAN\REPL\IMPORT\SCRIPTS
pulse = 60
update = yes
```

```
[replicator]
replicate = IMPORT
importpath = C:\BMLAN\REPL\IMPORT
exportpath = C:\BMLAN\REPL\EXPORT
tryuser = yes
password =
interval = 5
guardtime = 2
pulse = 3
random = 60
```

```
[server]
alertnames =
auditing = yes
autodisconnect = 120
cleanup = no
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
```

## Sheet1

```
erroralert = 5
logonalert = 5
maxauditlog = 100
maxchdevjob = 8
maxchdevq = 8
maxchdevs = 8
maxconnections = 128
maxlocks = 64
maxopens = 64
maxsearches = 50
maxsessopens = 55
maxsessreqs = 50
maxsessvcs = 1
maxshares = 32
netioalert = 5
numbigbuf = 5
numfiletasks = 4
numreqbuf = 96
pipebuf = 8192
sizreqbuf = 4096
svranndelta = 3000
svrannounce = 60
srvpipes = 3
```

; The next lines help you to locate bits in the srvheuristics entry.

```
;
;           1
;           0123456789012345678
;           srvheuristics = 1111014111331200133
```

```
srvnets = net1
SRVSERVICES = NETLOGON,ALERTER,NETRUN
```

```
[alerter]
sizationalertbuf = 3072
```

```
[netrun]
maxruns = 3
runpath = C:\
```

```
[services]
DLRINST = SERVICES\DLRINST.EXE
; 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
```

```
requester = services\wksta.exe
messenger = services\msrvinit.exe
```

## Sheet1

netpopup = services\netpopup.exe  
server = services\netsvini.exe  
alerter = services\alerter.exe  
netlogon = services\netlogon.exe  
replicator = services\replicat.exe  
pcdosrpl = services\pcdosrpl.exe  
netrun = services\runservr.exe

IFS=C:\OS2\HPFS.IFS -C:  
RUN=C:\OS2\CACHE.EXE /LAZY:ON  
DISKCACHE=xxxx,8

## Sheet1

### 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 K 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  
<<- 254 or More Stations Required!!!  
<<- 254 or More Sessions Required!!!  
<<- 255 or More Commands Required!!!  
<<- Too Many Stations Required  
<<- 254 or More Names Required!!!  
<<- Too Many, 5 Max  
<<- 16/4 Adapter Recommended  
<<- 16/4 Adapter REQUIRED  
<<- Additional Server RAM recommended



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