

These versions of **CONFIG.SYS**, **NET.CFG**, **PROTOCOL.INI**, **STARTPCS.CMD**, **CONFIG.PCS**, and the **DOS Settings for the DOS box** provide access to a Novell network and an AS/400 through 5250 emulation under Communications Manager as well as PC Support simultaneously. They work in the following environment:

Workstation: IBM PS/2 Model 77 (486DX/2) with 16 Mb RAM, 200 Mb hard drive and IBM 16/4 Token Ring Adapter. Software was added in the following order: OS/2 2.0 was preloaded on the system and Extended Services Ver 1.0 was added by the user. The Netware Requester for OS/2 (from Novell) was installed and the corrective diskette NSD202 from Netwire was added.

Network: IBM Token Ring, Compaq Systempro server running Netware Ver 3.11 with 32 Mb RAM, 5.2 Gb expansion chassis.

AS/400: OS/400 Ver 2.0 Release 2.0 and PC Support for OS/2.

I would like to acknowledge the help of several users in the OS/2 and Novell forums as well as the help of IBM Technical Support in Toronto, Canada.

CONFIG.SYS

```
REM IFS=C:\OS2\HPFS.IFS /CACHE:64 /CRECL:4
PROTSHELL=C:\OS2\PMSHELL.EXE
SET USER_INI=C:\OS2\OS2.INI
SET SYSTEM_INI=C:\OS2\OS2SYS.INI
SET OS2_SHELL=C:\OS2\CMD.EXE
SET AUTOSTART=PROGRAMS,TASKLIST,FOLDERS
SET RUNWORKPLACE=C:\OS2\PMSHELL.EXE
SET COMSPEC=C:\OS2\CMD.EXE
LIBPATH=.;C:\OS2\DLL;C:\MUGLIB\DLL;C:\SQLLIB\DLL;C:\OS2\MDOS;C:\CMLIB\DLL;C:\;C:\OS2\APPS\DLL;C:\IBMCOM\DLL;C:\PCSOS2;C:\NETWARE;
SET
PATH=C:\OS2;C:\MUGLIB;C:\SQLLIB;C:\OS2\SYSTEM;C:\OS2\MDOS\WINOS2;C:\CMLIB;C:\CML
IB\APPN;C:\OS2\INSTALL;C:\;C:\OS2\MDOS;C:\OS2\APPS;C:\PCSOS2;L:\OS2;P:\OS2;C:\NETWARE;
SET
DPATH=C:\OS2;C:\MUGLIB\DLL;C:\SQLLIB;C:\CMLIB;C:\CMLIB\APPN;C:\OS2\SYSTEM;C:\OS2\MDOS\WINOS2;C:\OS2\INSTALL;C:\;C:\OS2\BITMAP;C:\OS2\MDOS;C:\OS2\APPS;C:\IBMCOM;C:\NETWARE;P:\OS2;
SET PROMPT=$I[$P]
SET HELP=C:\CMLIB\APPN;C:\OS2\HELP;C:\SQLLIB;C:\OS2\HELP\TUTORIAL;
SET GLOSSARY=C:\OS2\HELP\GLOSS;
```

```
PRIORITY_DISK_IO=YES
FILES=50
DEVICE=C:\OS2\R0CSDD.SYS
DEVICE=C:\ibmcom\lanmsgdd.os2 /I:C:\ibmcom
DEVICE=C:\ibmcom\protman.os2 /I:C:\ibmcom
DEVICE=C:\ibmcom\protocol\LANDD.OS2
DEVICE=C:\ibmcom\protocol\LANDLLDD.OS2
DEVICE=C:\OS2\TESTCFG.SYS
DEVICE=C:\OS2\DOS.SYS
DEVICE=C:\OS2\PMDD.SYS
BUFFERS=30
IOPL=YES
DISKCACHE=384,LW
MAXWAIT=3
REM ** Next line documented in PC Mag Mar 16, 1993 Pg 331 **
TIMESLICE=64,128
REM ** Next line documented in PC Mag Mar 16, 1993 **
MEMMAN=SWAP,MOVE,PROTECT
REM ** Next line moves swapper file to Drive D: for more space. If swapper **
REM ** file grows to take all free space on C: drive, system will hang **
SWAPPATH=D:\SWAPPER 2048 4096
BREAK=OFF
THREADS=256
PRINTMONBUFSIZE=134,134,134
COUNTRY=001,C:\OS2\SYSTEM\COUNTRY.SYS
SET KEYS=ON
REM ** Next line allows Undelete of files **
SET DELDIR=C:\DELETE,512;D:\DELETE,512;
BASEDEV=IBM2FLPY.ADD
BASEDEV=OS2DASD.DMD
REM IFS=C:\OS2\CDFS.IFS /Q
REM DEVICE=C:\OS2\CDROM.SYS /Q /I /N:4
SET BOOKSHELF=C:\OS2\BOOK;C:\SQLLIB\BOOK;
SET EPMPATH=C:\OS2\APPS
PROTECTONLY=NO
SHELL=C:\OS2\MDOS\COMMAND.COM C:\OS2\MDOS /P
FCBS=16,8
RMSIZE=640
DEVICE=C:\OS2\MDOS\VEMM.SYS
DOS=LOW,NOUMB
DEVICE=C:\OS2\MDOS\VDPX.SYS
DEVICE=C:\OS2\MDOS\VXMS.SYS /UMB
DEVICE=C:\OS2\MDOS\VDPMI.SYS
DEVICE=C:\OS2\MDOS\VWIN.SYS
DEVICE=C:\OS2\MDOS\VCDROM.SYS
DEVICE=C:\OS2\MDOS\VMOUSE.SYS
```

```
DEVICE=C:\OS2\POINTDD.SYS
DEVICE=C:\OS2\MOUSE.SYS
DEVICE=C:\OS2\COM.SYS
DEVICE=C:\OS2\MDOS\VCOM.SYS
CODEPAGE=437,850
DEVINFO=KBD,US,C:\OS2\KEYBOARD.DCP
DEVICE=C:\OS2\MDOS\VGA.SYS
SET VIDEO_DEVICES=VIO_VGA
SET VIO_VGA=DEVICE(BVHVGA)
DEVINFO=SCR,VGA,C:\OS2\VIOTBL.DCP
DEVICE=C:\OS2\INSTALL\PRELOAD\PREL_IMG.SYS C:\OS2\INSTALL\PRELOAD\
WELCOME.RGB 5
DEVICE=C:\OS2\APPS\SYSINFO.SYS
BASEDEV=IBM2SCSI.ADD /LED
BASEDEV=IBMINT13.I13
BASEDEV=OS2SCSI.DMD
BASEDEV=PRINT02.SYS
REM DEVICE=C:\OS2\APPS\SASYNADB.SYS
```

```
DEVICE=C:\OS2\LOG.SYS
RUN=C:\OS2\SYSTEM\LOGDAEM.EXE
SET QRWDR=C:
SET QRWINST=C:\SQLLIB
SET SQLNETB=16
DEVICE=C:\IBMCOM\PROTOCOL\LANPDD.OS2
DEVICE=C:\IBMCOM\PROTOCOL\LANVDD.OS2
DEVICE=C:\CMLIB\ACSLDLAN.SYS
RUN=C:\OS2\EPW.EXE
RUN=C:\ibmcom\protocol\landll.exe
RUN=C:\ibmcom\protocol\netbind.exe
RUN=C:\ibmcom\lanmsgex.exe
REM DEVICE=C:\IBMCOM\PROTOCOL\NETBEUI.OS2
REM DEVICE=C:\IBMCOM\MACS\IBMTOK.OS2
DEVICE=C:\CMLIB\APPN\CMKFMDE.SYS
DEVICE=C:\CMLIB\RDSLANDD.SYS
SET EHNL=2924
SET EHNP=C:\PCSOS2
IFS=C:\PCSOS2\EHNSFLO.DLL
RUN=C:\PCSOS2\UPDATEP2.EXE
```

```
REM --- NetWare Requester statements BEGIN ---
DEVICE=C:\NETWARE\LSL.SYS
RUN=C:\NETWARE\DDAEMON.EXE
DEVICE=C:\NETWARE\TOKEN.SYS
DEVICE=C:\NETWARE\ROUTE.SYS
DEVICE=C:\NETWARE\ODINSUP.SYS
```

```
DEVICE=C:\NETWARE\IPX.SYS
DEVICE=C:\NETWARE\SPX.SYS
RUN=C:\NETWARE\SPDAEMON.EXE
rem DEVICE=C:\NETWARE\NMPIPE.SYS
rem DEVICE=C:\NETWARE\NPSEVER.SYS
rem RUN=C:\NETWARE\NPDAEMON.EXE NP_COMPUTERNAME
DEVICE=C:\NETWARE\NWREQ.SYS
IFS=C:\NETWARE\NWIFS.IFS
RUN=C:\NETWARE\NWDAEMON.EXE
rem DEVICE=C:\NETWARE\NETBIOS.SYS
rem RUN=C:\NETWARE\NBDAEMON.EXE
DEVICE=C:\NETWARE\VIPX.SYS
DEVICE=C:\NETWARE\VSHELL.SYS
REM --- NetWare Requester statements END ---

REM DEVICE=C:\IBMCOM\PROTOCOL\NETBIOS.OS2
```

NET.CFG

NOTE: Replace **SERVERNAME** with the name of your network server.

```
Link Driver token
  frame token-ring
  frame token-ring_snap
Link Support
  buffers 14 4202
Protocol ODINSUP
  bind token
Netware Requester
  cache buffers 10
  preferred SERVERNAME
```

PROTOCOL.INI

NOTE: There absolutely **must** be a blank line after the [TOKEN] section heading, otherwise the system will hang with a trap error.

```
[PROT_MAN]
  DRIVERNAME = PROTMAN$
```

```
[IBMLXCFG]
LANDD_nif=LANDD.NIF
NETBEUI_nif=NETBEUI.NIF
IBMTOK_nif=IBMTOK.NIF
```

```
[LANDD_nif]
  DRIVERNAME = LANDD$
  BINDINGS   = TOKEN
  Links      = 41
  Users      = 4
  Max_Saps   = 4
```

```
[NETBEUI_nif]
  DRIVERNAME = NETBEUI$
  BINDINGS   = TOKEN
```

```
[IBMTOK_nif]
  DRIVERNAME = IBMTOK$
```

```
[TOKEN]
  DRIVERNAME = TOKEN$
```

STARTPCS.CMD

NOTE: This version of STARTPCS.CMD allows use of the AS/400 PC Support Organizer to provide file transfer functions between the AS/400 and the PC workstation on the network.

```
@REM V2R2M0 WARNING: DO NOT DELETE ANY LINES FROM THIS FILE
:SCFG
@IF %1.==. %0 C:\PCSOS2\CONFIG.PCS
:ECFG
:STMP
@IF %1.==$.$.$. GOTO :TMPCAL
@COPY C:\PCSOS2\STARTPCS.CMD C:\PCSOS2\%TMP.CMD > NUL
@C:\PCSOS2\%TMP.CMD $.$. $ %1
:TMPCAL
@SHIFT
:ETMP
:SEHNM
@SET EHNM=A
:EEHNM
:SEHNL
@CALL EHNL
:EEHNL
:SQSTRT
@ECHO OFF
:EQSTRT
:SSRTR
STARTRTR %1 /Z
@IF ERRORLEVEL 20 GOTO EXIT
:ESRTR
:SSFLR
STARTFLR /Z
@IF ERRORLEVEL 20 GOTO EXIT
:ESFLR
:SCFLR
CFGFLR %1 /Z
@IF ERRORLEVEL 20 GOTO EXIT
@IF NOT ERRORLEVEL 15 GOTO CDIFLR
@ECHO 5049 - DRIVE I WAS NOT ASSIGNED TO A SPECIFIED SYSTEM
@GOTO EXIT
:CDIFLR
@CD I:\QIWSOS2
:ECFLR
```

```
:SUPDT
START /N I:PCSUPDT %1 /Z
@IF ERRORLEVEL 20 GOTO EXIT
:EUPDT
:MSG
I:STARTMSG %1 /Z
@IF ERRORLEVEL 20 GOTO EXIT
:MSG
:PCO
I:PCO %1 /Z
:EPCO
:SMENU
I:PCSMENU /Z
:EMENU
:EXIT
:SQEND
@ECHO ON
:EQEND
```

CONFIG.PCS

NOTE: Make sure that the entries in bold print are made. In PC Support under DOS, 5250LU is replaced by the actual ID of the PC workstation on the network and 5250PLU is replaced by the serial number of the AS/400 system.

RTYP CMGR
LCLN **5250LU**
MCAO 256,,2
MDEF **5250PLU**,1
MMRI 60
PTIM 30
SFLR 1,I,QIWSOS2,**5250PLU**
RTDN **5250PLU**
RMTN **5250PLU**
UPDT I:\QIWSOS2,C:\PCSOS2,S,,,PC Support/400

DOS BOX SETTINGS

NetWare_Resources Private, VIPX_Enabled Yes, DOS_LASTDRIVE E NETX Loaded, Logged in.

DOS_LASTDRIVE is set to E to provide a familiar F: drive for the user's home directory under Netware.

This setup gives full NCP support and runs all our standard server based DOS programs e.g. WordPerfect 5.1, Lotus 1-2-3, Harvard Graphics, etc. All search mappings are retained under DOS.

Your batch file to login to the network should include the line

SET COMSPEC=C:\OS2\MDOS\COMMAND.COM

so that when exiting from DOS programs, the correct version of COMMAND.COM is reloaded. Also modify your search drives to include **C:\OS2\MDOS** or external programs like XCOPY will not run.

