

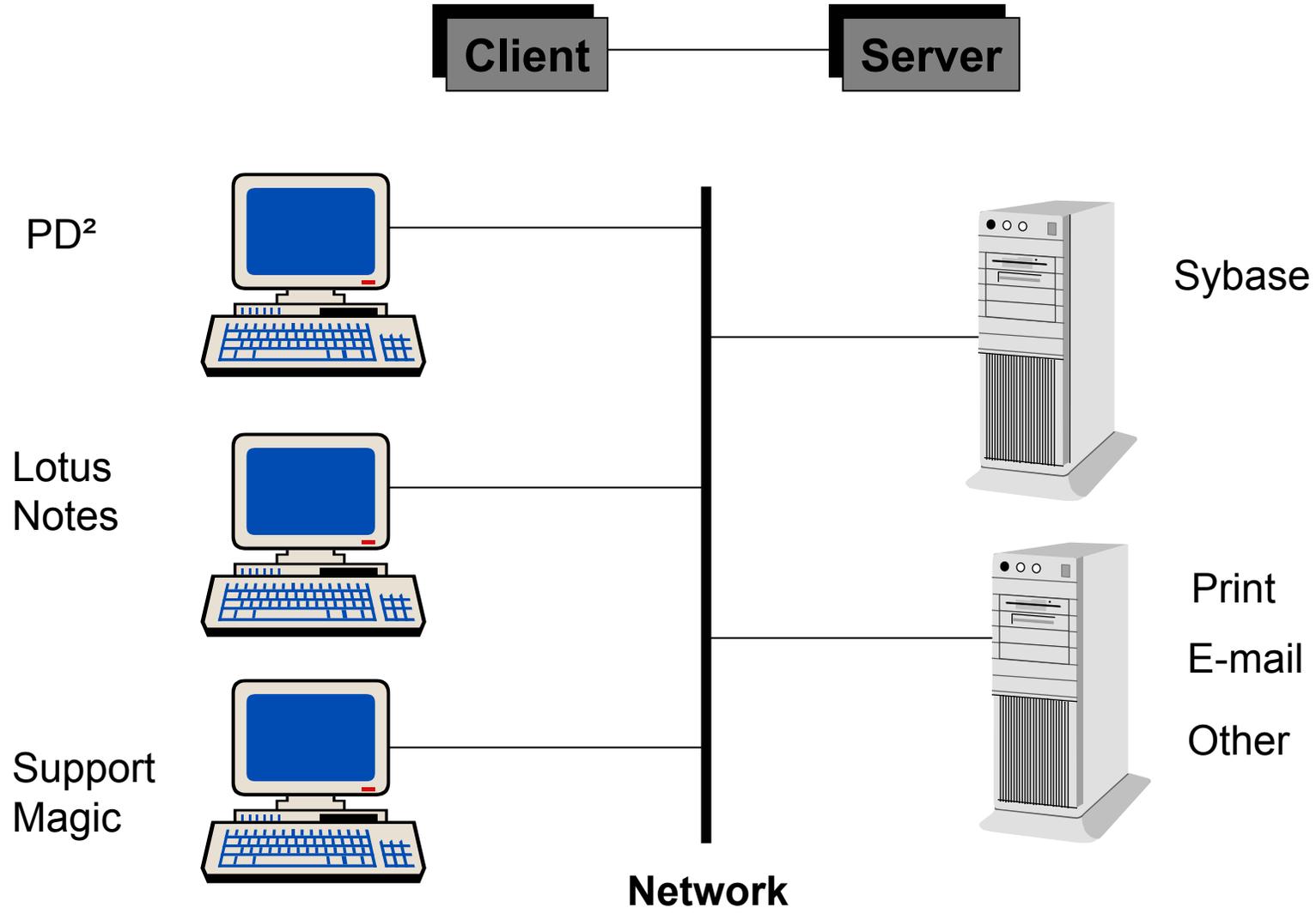
Technical Overview of PD² and Sybase

ams

- Client/ Server Characteristics
- Client/ Server Architecture
- Servers
 - Database Servers
 - Terminal Servers
 - File Servers
 - Application Servers
- Operating Systems
- Sybase
- Connecting Directly to Sybase
- PD² Components
- .INI Files
- Batch Files
- Technical Resources

- Service:
 - Server is the provider of a service. Client is the recipient of a service. No Crossover.
- Shared Resources:
 - Server can provide service to many clients at the same time.
- Transparent Location:
 - The location of the server is transparent to the user.
- Mix & Match:
 - The hardware and software in the client/server environment is independent of one another. In other words, the hardware and software used by the client should operate regardless of the hardware and software used by the server.
- Centrally Managed:
 - Server applications and data are stored and maintained in one central location. Clients remain personal and independent.

Client Server Architecture



- Database Servers
 - Used to store and process information
 - Queries are issued from the client, processed on the server and the results are returned to the client over the network
 - Insert, update and delete transactions are also issued by the client
 - Examples: Sybase SQL Served, Support Magic Server, Lotus Notes

- Terminal Servers
 - Used to provide access to applications on a remote server
 - All processing is done on the remote server
 - Client PCs must have a Terminal Server Client Interface in order to connect to the Terminal Server
 - Not used for storing data

- File Servers
 - Used to store files in a central location where they can be accessed by the client
 - Information on a file server can be copied directly to a client PC
 - All processing is done on the client then saved to the server
 - Not used to store data

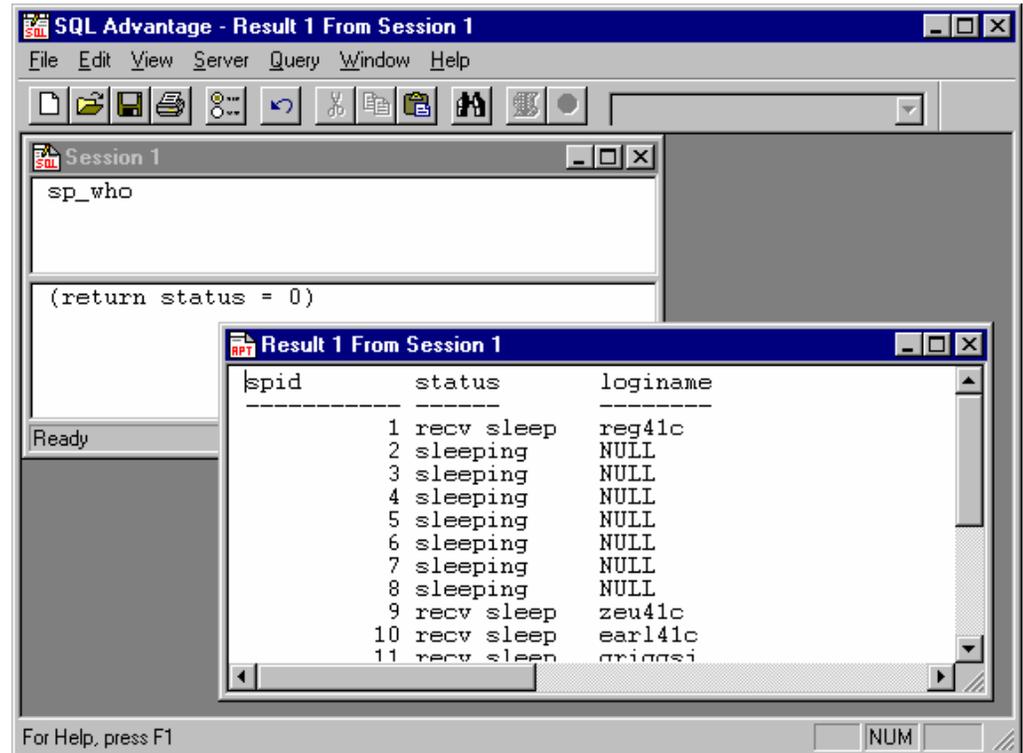
- Application Servers
 - Used as a central location for accessing applications
 - Users access the applications via a shortcut on their desktop
 - All processing is done on the client
 - Not used to store data
 - Not to be confused with the EDA Application Server

- Unix
 - Database Server
 - Non-Graphic Interface
- Windows NT Server
 - Database Server
 - Terminal Server
 - File Server
 - Application Server
 - Graphic Interface

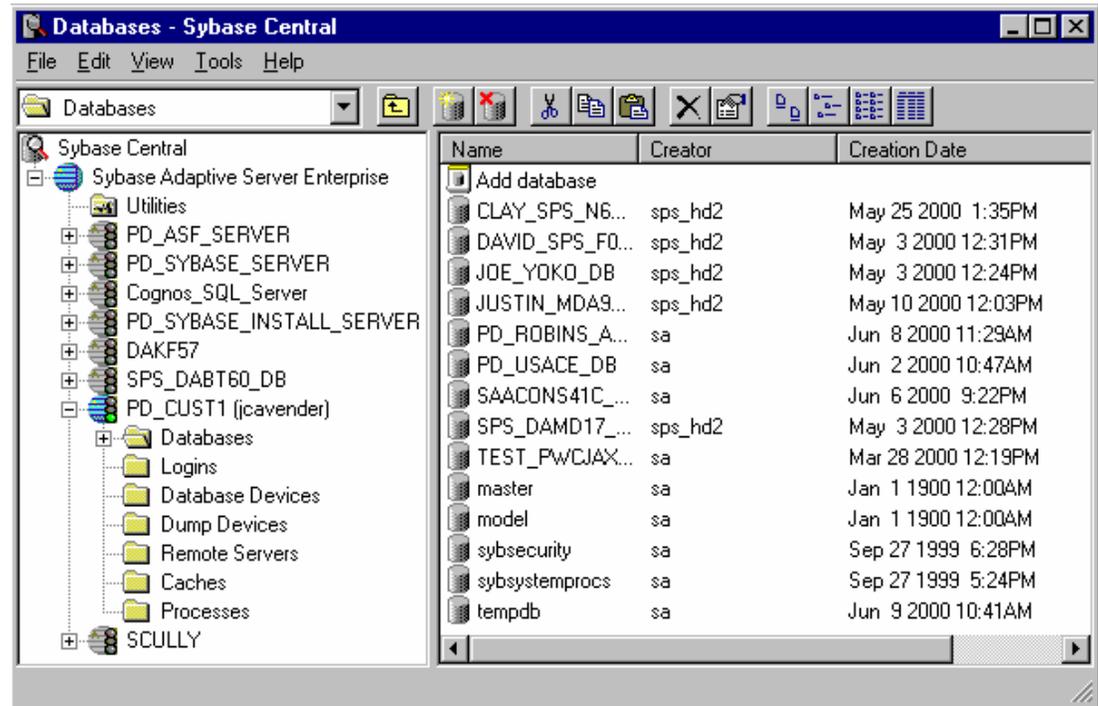
- Windows 95
 - Client PC
 - Supports all Versions of PD²
- Windows 98
 - Client PC
 - Supports PD² version 4.1b and 4.1c
- Windows NT
 - Client PC
 - Supports all Versions of PD²
 - Famous for Dr. Watson Errors

- Sybase SQL Server
 - RDBMS (Relational Database Management System)
 - Stores all PD² Data
 - Information that runs Sybase (i.e. stored procedures)
 - Resides on a Server (not a client)
- Sybase Backup Server
 - Server that is used to perform backups
 - Must be operating in order to perform backups
 - Backups can be performed while people are in the system

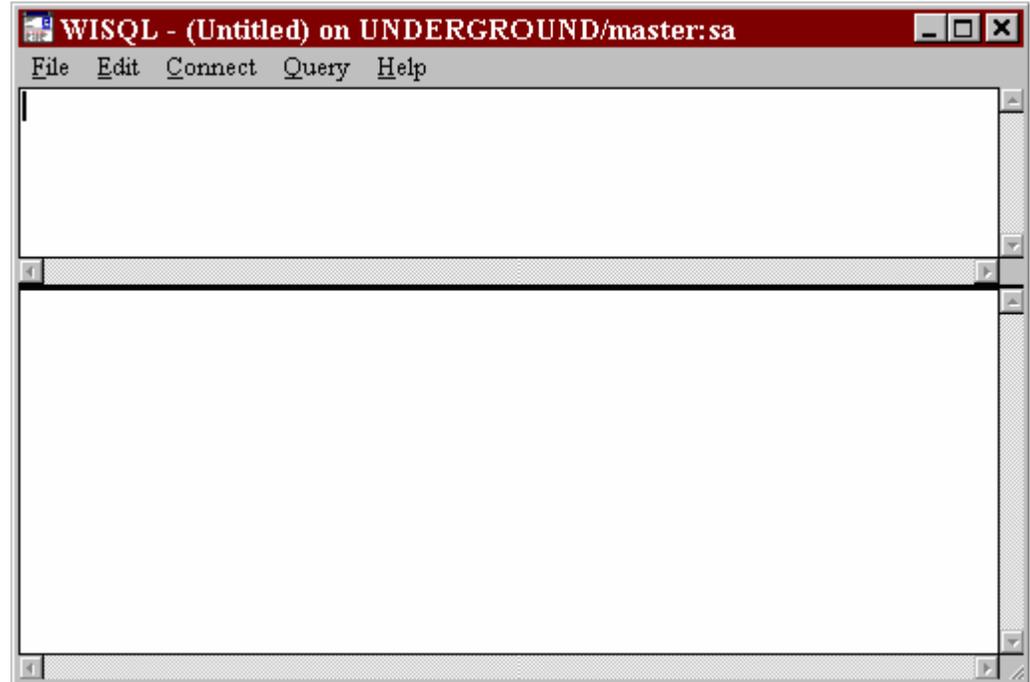
- SQL Advantage
 - Is installed when PD² is installed
 - Used to access the Sybase Server and run SQL scripts
 - Start -> Run -> WISQL



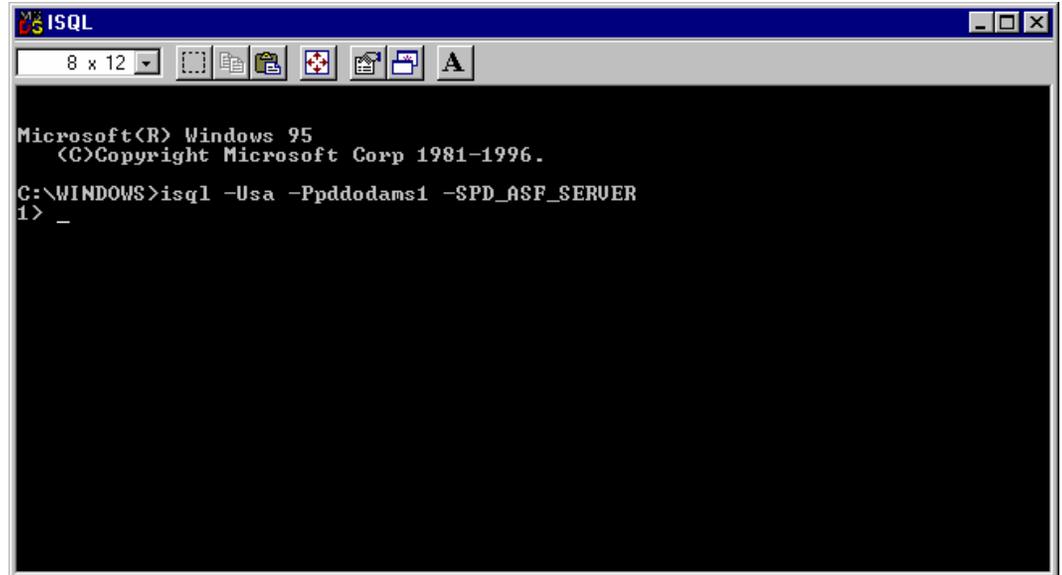
- Sybase Central
 - Is installed on the Sybase server. A separate installation must be performed to install it on a client PC
 - Used to connect to the Sybase server to perform various Database functions (i.e. backups, restore, increase database, etc.)
 - Can not be used to run scripts



- WISQL
 - Installed on the server
 - Has the same functionality as SQL Advantage, but less features

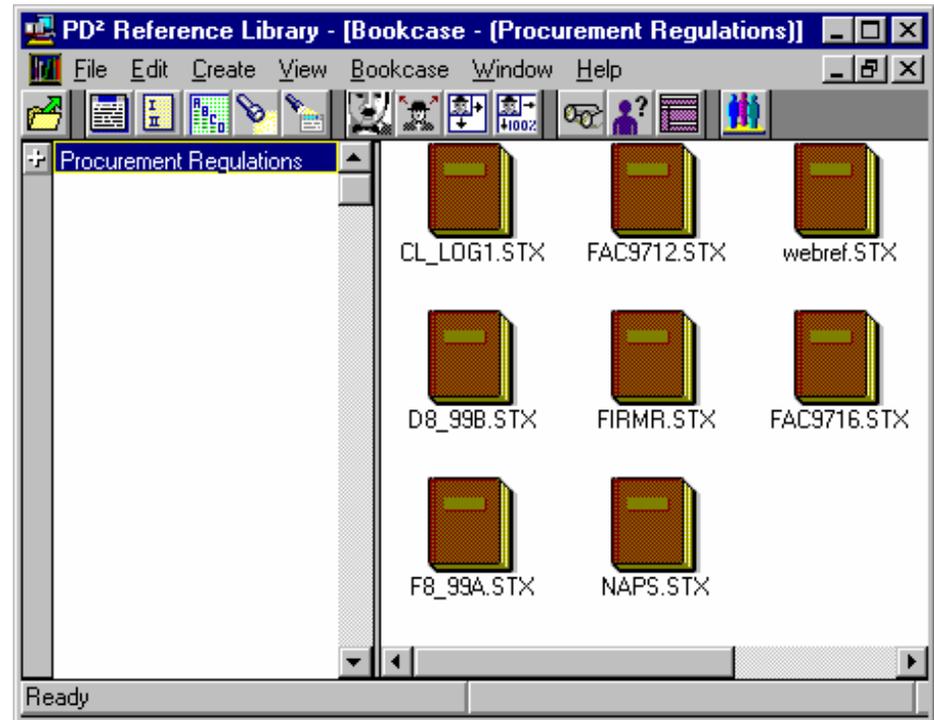


- ISQL
 - Installed on both the server and the client
 - Executed using MS-DOS
 - Can be used to run SQL Commands
 - Is mostly used to run automated backups and other batch processes.



```
ISQL
8 x 12
Microsoft(R) Windows 95
(C)Copyright Microsoft Corp 1981-1996.
C:\WINDOWS>isql -Usa -Ppddodams1 -SPD_ASF_SERVER
1> _
```

- SmartText Reference Library
 - Installed alongside PD² on the client PC
 - Application used to view the PD² Reference Library
 - Books available include (FAR, DFAR, Clause Logic, etc.)
 - Can be accessed outside of PD²
 - Information is not stored in the database
 - Books (*.stx) and Bookshelves (pddod.bks) are stored on a file server



- Cognos Impromptu
 - Installed alongside PD² on the Client PC
 - Application used to run reports against the PD² database
 - Must be accessed via of PD²
 - Report Templates (.imr files) are stored in the database
 - Generated reports are stored on the client PC
 - Utilizes the pddod.cat file to translate fields in the PD² database to fields in Cognos

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**Contracts Between
(\$ 0 -- \$ 25000) and
(2000-01-01 -- 2000-06-01)**

-00-F-0002	Awd. Eff Date: 5/4/00 00:00AM	Tot
PHIL AND JOHN'S CAR WASH		DUNS Plus F
7103 DIJOHN COURT KINGSTOWNE, VA 22315-3954		CAGE: OPGA

PD² Catalog v2.0 113

- Pddod.ini
 - Located in the c:\pd2\bin directory
 - Contains connection information such as Database Name, and Server Name
 - Contains information such as directory location that is unique to each site
 - Updated Manually

```
[Registration Info]
.....
[EDI]
Transmit=L:\EDI\TRANSMIT\
Receive=L:\EDI\RECEIVE\
Archive=L:\EDI\ARCHIVE\
[TRANSMIT]
Transmit=L:\FPDS\
[COGNOS]
Catalog=L:\pd2\COGNOS\
Report=L:\pd2\COGNOS\
[External]
SmarText=d:\pd2\SMARTTEXT
BookshelfInstalled=05064904694749640808
PDTEMP=L:\TEMP
[Database]
DBMS=SYC Sybase System 11
Database=SPS_41C_DB
ServerName=PD_SYBASE_SERVER
DBParm=Release='11',OptSelectBLOB=1,Appname='PD2',
[Local EDA]
Transmit=L:\EDA
```

- Stxr30.ini
 - SmarText .ini
 - Found in the c:\windows directory
 - Maintains several SmarText parameters
 - Usually never updated manually

```
[SmarText]
cdrom=D
Maximize=normal
...
LastOpen1=L:\SMARTEXT\FAC97~2\FAC9716.STX
LastOpen2=L:\SMARTEXT\F8_99A\F8_99A.STX
brwcoord=5570645
brwsize=42467650
LastOpen3=L:\SMARTEXT\CL_LOG1\CL_LOG1.STX
LastOpen4=F:\SMARTEXT\CL_LOG\CL_LOG.STX
.....
LastOpen5=F:\SMARTEXT\D6_99A\D6_99A.STX
editor=C:\PROGRA~1\MICROS~1\OFFICE\WINWORD.EXE
....
manpath=L:\PD2\SMARTEXT\SETTINGS
docpath=L:\PD2\SMARTEXT\SETTINGS
display_banner=NO
title_caption=PD2 Reference Library
BKMPATH=L:\PD2\SMARTEXT\SETTINGS
iconpath=L:\PD2\
NOTEPATH=L:\PD2\SMARTEXT\SETTINGS
iconbarconfig=Default
bookshelf1=L:\PD2\SMARTEXT\SETTINGS\pddod.bks,-
...
```

- Cognos.ini
 - Found in the c:\windows directory
 - Maintains several Cognos parameters
 - ServerName|Database are the only fields that are manually updated

```
.....  
[Databases]  
  
PDCAT4_1B=^User  
ID:^?Password:;LOCAL;CT;Cognos_SQL_Server|SPS_41C_DB@  
%s/%s@0/0@512@ASYNC=1@POLL=0@APPNAME=Impromptu  
  
PDCAT4_1=^User  
ID:^?Password:;LOCAL;CT;Cognos_SQL_Server|SPS_41C_DB@  
%s/%s@0/0@512@ASYNC=1@POLL=0@APPNAME=Impromptu  
  
PDCATALOG=^User  
ID:^?Password:;LOCAL;CT;Cognos_SQL_Server|SPS_41C_DB@  
%s/%s@0/0@512@ASYNC=1@POLL=0@APPNAME=Impromptu  
  
PDPLAY=^User  
ID:^?Password:;LOCAL;CT;Cognos_SQL_Server|SPS_41C_DB@  
%s/%s@0/0@512@ASYNC=1@POLL=0@APPNAME=Impromptu  
.....
```

- Sql.ini
 - Found in the c:\pd2\bin\ini or c:\sybase\ini directory
 - Contains the Server Name and IP address of the Sybase servers
 - Can be manually edited

```
[PD_ASF_SERVER]
query=NLWNSCK,162.70.148.249,5000
master=NLWNSCK,162.70.148.249,5000
```

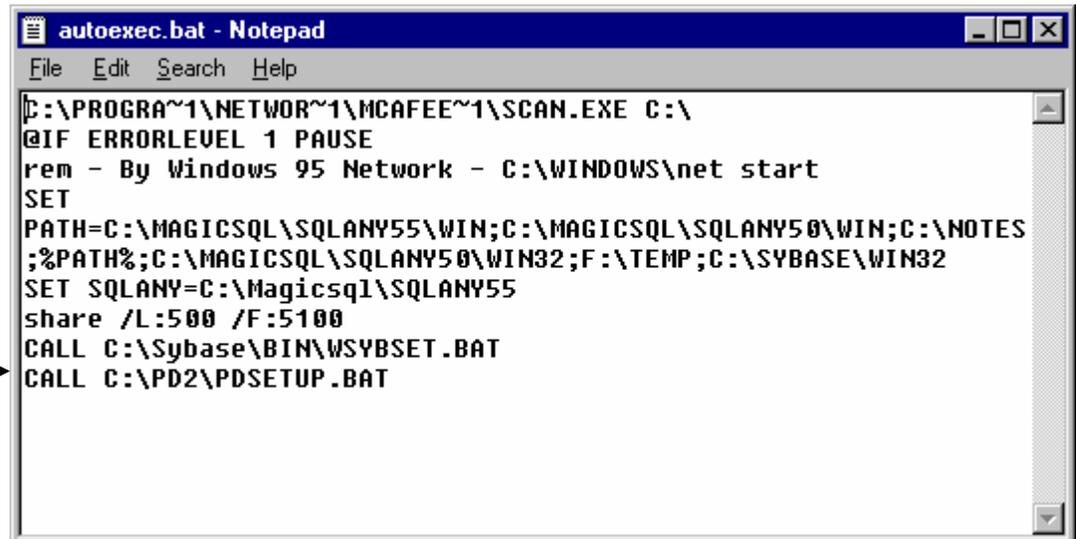
```
[PD_SYBASE_SERVER]
query=NLWNSCK,ams-secure.amsinc.com,5000
master=NLWNSCK,ams-secure.amsinc.com,5000
```

```
[Cognos_SQL_Server]
query=NLWNSCK,162.70.148.169,5000
master=NLWNSCK,162.70.148.169,5000
```

```
[PD_SYBASE_INSTALL_SERVER]
query=NLWNSCK,162.70.148.249,5000
master=NLWNSCK,162.70.148.249,5000
```

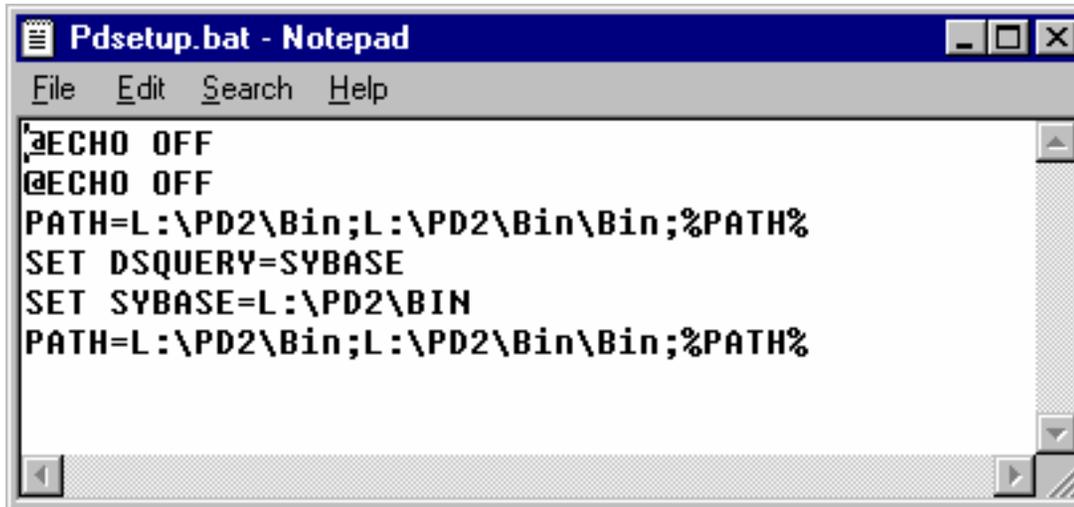
- Autoexec.bat
 - Windows 95 Only
 - Defines the environmental variables for the operating system
 - These variables are set during startup
 - File can be found in the c:\ directory

PD² Call Statement



```
autoexec.bat - Notepad
File Edit Search Help
C:\PROGRAMS\NETWORK\MCAFFEE\SCAN.EXE C:\
@IF ERRORLEVEL 1 PAUSE
rem - By Windows 95 Network - C:\WINDOWS\net start
SET
PATH=C:\MAGICSQL\SQLANY55\WIN;C:\MAGICSQL\SQLANY50\WIN;C:\NOTES
;%PATH%;C:\MAGICSQL\SQLANY50\WIN32;F:\TEMP;C:\SYBASE\WIN32
SET SQLANY=C:\Magicsql\SQLANY55
share /L:500 /F:5100
CALL C:\Sybase\BIN\WSYBSET.BAT
CALL C:\PD2\PDSETUP.BAT
```

- PDSetup.bat
 - Defines the environmental variables for PD²
 - These variables are set during startup
 - File can be found in the c:\PD² directory



```
Pdsetup.bat - Notepad
File Edit Search Help
@ECHO OFF
@ECHO OFF
PATH=L:\PD2\Bin;L:\PD2\Bin\Bin;%PATH%
SET DSQUERY=SYBASE
SET SYBASE=L:\PD2\BIN
PATH=L:\PD2\Bin;L:\PD2\Bin\Bin;%PATH%
```

- Knowledge Base (pd2.amsinc.com/spskb.nsf)
- SIR (Support Magic)
- WOOF (Lotus Notes)
- SPUDS (Lotus Notes)
- Sybooks (sybooks.sybase.com)
- Microsoft Support (support.microsoft.com)
- Other Team Members