

























# **SQLGLOB** Parameters

- QryBlksize specifies the block size used to return rows of data when DRDA blocking is used to perform fetches.
- CHARNAME specifies the character set name, which determines the CCSID values for CCSIDSBCS, CCSIDMIXED and CCSIDGRAPHIC to be used by the DRDA Online Resource Adapter, and determines how ISQL and the preprocessors fold characters from lowercase to uppercase.
- DBCS specifies whether DBCS character handling of SO/SI pairs is done by ISQL and the preprocessors or not.



### SYN

#### e-business



# **SQLGLOB** Parameters

- SYNCPOINT specifies how commits or rollbacks are to be coordinated by the CICS/VSE Syncpoint Manager.
- TRACERA specifies the parts of the DRDA Online Resource Adapter that are to be traced and the level of trace.
- TRACEDRRM specifies the parts of the DRRM component that are to be traced and the level of trace.
- TRACECONV specifies that the Data Conversion component is to be traced and the level of trace.
- COMMPROT (Version 7.1.0) specifies the communications protocol that a CICS transaction will use for DRDA if both SNA and TCP/IP information is defined for the remote database in the DBNAME directory.





# **SYNCPOINT**

e-business



syncpoint 1	syncpoint 2
one-phase commit	two-phase commit
no syncpoint manager	syncpoint manager to coordinate two phase commits
unprotected conversation	protected conversation



### **Initializing SQLGLOB File**

#### • Define and Initialize the SQLGLOB File

- ARIS618D IBM-supplied job control program to define the (Batch) SQLGLOB VSAM file. This job must be run when you are preparing to install DB2 Server for VSE 6.1.
- ► FCT Definition (Online)
- ARISGDEF IBM-supplied job control program to initialize the SQLGLOB file with the IBM-supplied global SQLGLOB default values. This job must be run right after you have defined the SQLGLOB VSAM file in ARIS618D.

# IBM

/www.





e-business

WWW

### **DBNAME Directory** (New Fields)

- SYSID Character field of up to 4 characters. (A-Z, 0-9, \$, @, #) This field is mandatory for remote servers. This field specifies the remote system to which an APPC session is to be allocated. The name identifies an entry (defined as an APPC connection) in the CICS terminal control table.
- REMTPN Alphanumeric or Hexadecimal field of up to 32 bytes that is used ONLY in a DRDA connection. This field is mandatory for remote servers. This field specifies the name of the remote application. That is, the name of the transaction program that is to be run on the remote host.



### **DBNAME Directory**

e-business

XII	
IN	WWW.
(	2
1	BM

Description	Column Number	Column Number
	(Version 5.1.0 and 3.5.0)	(Version 6.1.0)
Comment	1 - 1	1 - 1
TPN	2 - 5	2 - 5
APPLID	10 - 17	7 - 14
SYSDEFAULT	21 - 21	16 - 16
DBNAME	22 - 39	17 - 34
PDEFAULT	44 - 45	36 - 37
PRIVILEGE	50 - 50	39 - 39
SYSID		41 - 44
REMTPN		46 - 77



e-business

### **DBNAME Directory for Version 7.1.0**

 DBNAME directory changed from 80 column fixed record to assembler macros.

- Easier to understand for the user.
- Easier to update and build.
- Easier for DB2/VSE to change without forcing customer to manual changes.
- VSE REXX EXEC provided to define the directory entries.
- Added database alias feature
- Added TCP/IP connection information
- VSE REXX EXEC provide to migrate your existing DBNAME directory to the new format.











# **DBNAME Directory for Version 7.1.0 Example**

e-business



\*

TYPE=REMOTE DBNAME=DB2MVS ALIAS=DB2MVS\_SNA SYSID=MVSC REMTPM=07F6C4C2 SYSDEF=N

TYPE=REMOTE DBNAME=SAMPLE ALIAS=DB2NT\_TCP TCPPORT=50000 IPADDR=9.9.9.9 SYSDEF=N



















e-business

NWW

- When starting the application server, the following error is received
  - ARI4103I TCP/IP service GETSERVBYNAME failed. Return code = 67
  - ARI4102I Unable to initialize TCP/IP service.
- Return code 67 is EPROCLIM, too many processes.
- GETSERVBYNAME is the first TCP/IP function we attempt if we are trying to initialize by using the ETC SERVICES file to determine the port number. This means we are starting 1 process and there is only 1 process so far. If 1 process is too many, then TCP/IP support is not available. Up to now we have only established a C run time environment, but no TCP/IP environment.
- The first thing to check is that the TCP/IP client disk is accessed. Typically this is the TCPMAINT 592 disk. Without the TCP/IP client disk, no TCP/IP functions are supported.

35-36



## **Application Server Problems**

- When starting the application server, the following error is received
  - ARI4103I TCP/IP service GETHOSTBYADDR failed. Return code = 67
  - ARI4102I Unable to initialize TCP/IP service.
- Return code 67 is EPROCLIM, too many processes.
- GETHOSTBYADDR is the first TCP/IP function we attempt if we are trying to initialize by using the TCPPORT initialization parameter to specify the port number. This means we are starting 1 process and there is only 1 process so far. If 1 process is too many, then TCP/IP support is not available. Up to now we have only established a C run time environment, but no TCP/IP environment.
- The first thing to check is that the TCP/IP client disk is accessed. Typically this is the TCPMAINT 592 disk. Without the TCP/IP client disk, no TCP/IP functions are supported.



e-business

### **Application Requester Problems**

- Application requester errors are reported in the SQLCA.
- For TCP/IP errors, the SQLERRD1 will contain the TCP/IP function error code.
- The SQLERRM will contain the name of the TCP/IP function that failed.
- The SQLERRM may contain other tokens that relate to the function being performed.
- The SQLERRP field contains the name of the module reporting the error.
- Since TCP/IP errors can occur for many different SQLCODES, it is important that all of the SQLCA fields are obtained.



























