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DAL for MVS/VTAM: DB2 Interface

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TOPIC -----

Configuration:

- DAL 1.3 with MVS/VTAM via 3270 with SNA•ps 1.1
- Client is DAL 1.3.5, using DataPivot 1.7.2 to test with.

We were able to test DAL and the DB2 interface, and these were our observations:

- 1) DB2D wouldn't shut down while the user was signed on to DAL, even though there was no open thread to DB2. Once DALSERVE was shut down or the test user logged off from DAL, the DB2 region completed the shutdown request.
- 2) DAL would shut down with the user signed on.
- 3) It appears that the same DALSERVE STC will access all DB2 regions. It may be necessary to shut down DAL in order to shut down any of the DB2 regions; procedures for operations will be complicated at best.

Questions:

- 1) Should we run one DALSERVE which will allow access to all DB2 regions, or is it possible to run multiple DALSERVES, one for each DB2 region?
- 2) If we can run multiple DALSERVES, can the user access more than one DALSERVE simultaneously from the Macintosh?
- 3) In our testing, we were unable to shut down DB2 until the DALSERVE was shut down or all users were logged off from DALSERVE. OMEGAMON for DB2 showed no open threads, and we have no reason for the delay. Can you provide any insight into this puzzle?

DISCUSSION -----

Responses to your observations:

- 1) This problem hasn't been reported previously. We will investigate it.
- 2) The SHUTDOWN command is designed to be immediate. There is a warning to this effect in Chapter 4 of the "Installation and Operation Guide."
- 3) We assume by "region" you mean the DB2 subsystems. Yes, DAL can access any subsystem on the host. Note that you must perform specific Plan Binds and GRANTS for each subsystem. Access to a DB2 subsystem is a function of the Bind and the inclusion of the DB2 DSNLOAD library in the server execution JCL. Subsystems not included should not be effected. DAL being able to access multiple subsystems doesn't automatically imply data access in each subsystem.

Answers to your questions:

- 1) It's possible to run multiple DAL servers; it's also possible to run one server for all subsystems. This is a customer decision. If you want multiple servers, see the Tech Note on "DAL VTAM Tuning" included in the DAL.RUN>JCL library on the server installation tape. It explains the steps and strategies for installing and running multiple servers.
- 2) In theory, if an application is intelligent enough to make multiple calls to DAL -- that is, the hosts.cll file (DAL Preferences under System 7) AND the resources are available (multiple LUs would be necessary in the case of IBM connections) -- then this should be possible. Each connection to a DB2 subsystem required a separate network connection and is an independent session. One session cannot access multiple DB2 subsystems (DAL's "database" conversion). It's a more complicated scenario, both programmatically and administratively. We aren't familiar with DataPivot, and can't comment on its ability to perform.
- 3) As mentioned, we don't understand why this would happen if all threads were closed.

As a comment, performance in version 1.3.5 of the server is greatly improved. These improvements include thread and memory handling, blocking for APPC, and so on.

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