DAL: Canceled Query Hangs (3/93)

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TOPIC ---

I'm having a problem whenever a user cancels a query from GQL. I get an
error message "Can't access the host". Here is the information about my
DAL environment.

DAL Environment

DB2 maint level : 9206 release 2.3
MVS maint level : 9006
VTAM main level : 9006
Using Jes2
System ESA but VTAM is XA version 3.3
Network connection: SNA•ps APPC
SNA•ps APPC version: 1.1b3.
DAL VTAM Server : 1.3.5
DAL Client : 1.3.7
Using GQL. This is where the cancel problems are occurring.
Also using Dataprism.

DISCUSSION ---

You should purchase the 1.1.1 release of SNA•ps.

We've checked with two engineers, one for the SNA•ps APPC network adapter
and one for the Client driver.

There is no way for an APPC connection to issue the break command to the
server. This is a limitation of the protocol. Therefore, attempting to
use the break function on an APPC session can cause confusion and some
messiness.

You might think the server is in a loop, but it's not; it's just continuing
to process the DBMS command which was given to it previously. It will not
see the client as gone, and the network connection will remain open. This
means that the LU will be tied up in an active session in the gateway, and
the userid will be "in use" to the server.

In the testing we did (with GQL 3.0) we were able to determine two methods
of dealing with the problem. One way is probably what a Macintosh user
would do and the other is what he should do.

What a Macintosh User Probably Will Do
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1) Issue the break command.

2) May not wait until GQL finishes processing the break, or the break
   may "hang".

3) Force quit the GQL application.

4) MUST restart the Macintosh to clear the DAL Client driver -- if not
   the Macintosh can get really hung when DAL is next accessed.

5) Attempt to re-use GQL/DAL.

6) Notice that the connection attempt just "hangs", never seems to
   return.

7) Check gateway, see session number.

8) Get frustrated!

What You Should Do
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1) When the break command is issued to GQL, wait patiently for it to
   complete its processing and re-activate the mouse. This means more than
   just being able to move the mouse, it means being able to click on the
   GQL query window and close it.

2) Quit GQL and request "Close" of connection.

3) When GQL quits completely, the APPC session will still be active in
   the gateway. Any attempts to reconnect with that LU, or with that
   userid and a different LU will not succeed and may "hang" the
   application.

4) Request the console operator to answer the outstanding "request for
   reply" for the server with the following command:

   nn, cancel,userid   (where nn is the request number)

   This will cancel the APPC session and free the LU in the gateway.

5) To actually complete the cancel of the userid in the server, you must
   use the DAL Monitor to cancel the userid. This is done by logging onto
   the Monitor by a command such as:

   logon applid(dalserve) data(tpn=dalmon)

6) Hit 'enter' twice and you will see a listing of the active users in the
   server. Type a 'C' on the line for the userid to be cancelled. This
   will complete the cancellation of the userid in the server.

7) Steps 5 and 6 can be done in the reverse order, but both methods are
   required for a complete cancellation and clean-up. The first cancel
   will terminate the APPC session and the second cancel (which MUST be
   done by the OTHER method!!) will cancel the userid from the server and
   DB2.

Until the session is terminated and the userid canceled, the server
believes that the userid is still connected and will not allow the userid
to make another connection.

DAL doesn't support the "break" feature for APPC connections. It is
possible to cancel queries made with any of the 3270 protocol network
adapters (SNA•ps 3270, MacMainFrame, Netway, etc.) to the VTAM server.
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