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DAL for MVS/VTAM Server: Tuning Hints and Tips

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TOPIC -----

I need information on tuning the VTAM connection to improve the performance of the DAL VTAM server.

DISCUSSION -----

The following is the file containing tuning hints and tips for the VTAM server. You can find it on the DAL for MVS/VTAM Server distribution tape in the DAL.RUN.JCL file as the member, TUNING. An additional member, README, can also be of assistance. It is also recommended that all the tracing and log files be removed from the execution JCL.

DAL MVS/VTAM SERVER TUNING HINTS AND TIPS.

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THE FOLLOWING INFORMATION CAN BE USED TO HELP YOU OBTAIN THE BEST RESULTS FOR THE DAL MVS/VTAM SERVER, VERSION 1.3.5.

* CALCULATING STORAGE REQUIREMENTS (REGION SIZE)

THE DAL MVS/VTAM SERVER REQUIRES 808K OF STORAGE WITH NO SESSIONS CONNECTED. EACH CONCURRENT SESSION REQUIRES A MINIMUM OF 260K. TO CALCULATE THE REGION SIZE TO SUPPORT THE DESIRED NUMBER OF CONCURRENT SESSIONS FOR YOUR ENVIRONMENT, USE THE ABOVE FIGURES AND ADD TEN PERCENT FOR OVERHEAD. EXAMPLE: TEN CONCURRENT SESSIONS WILL REQUIRE A REGION SIZE (REGION= ON JOB STEP) OF 3749K. SEE BELOW ON THE MAXIMUM NUMBER OF SESSIONS CONNECTED TO A SINGLE SERVER.

* 31-BIT ADDRESSING AND MAXIMUM NUMBER OF SESSIONS

THE DAL MVS/VTAM SERVER DOES NOT CURRENTLY SUPPORT 31-BIT ADDRESSING.

THIS MEANS THAT THE SERVER CANNOT OPERATE IN A REGION SIZE LARGER THAN 16M (I.E., "ABOVE THE LINE"). THEREFORE, USING THE STORAGE ESTIMATION PROCEDURE GIVEN ABOVE, THE MAXIMUM NUMBER OF SESSIONS SIMULTANEOUSLY CONNECTED TO THE SERVER IN A 16M REGION IS 52; FOR A 9M REGION THE NUMBER OF SESSIONS WOULD BE 28.

* MULTIPLE DAL MVS/VTAM SERVERS ON THE SAME CPU

MORE THAN ONE MVS/VTAM SERVER CAN BE RUN AT THE SAME TIME ON A SINGLE CPU (GIVEN THE LIMITS OF YOUR ENVIRONMENT). USING MORE THAN ONE SERVER WILL ALLOW FOR GREATER THAN 63 CONCURRENT SESSIONS. IF MULTIPLE SERVERS ARE USED, THE CLIENT SCRIPTS (HOSTS.CL1 PRIOR TO SYSTEM 7.0 AND DAL PREFERENCES UNDER SYSTEM 7.0) MUST REFERENCE THE APPROPRIATE APPLID(S). TO ACCOMPLISH THIS, EACH SERVER MUST HAVE A UNIQUE VTAM APPLID ASSIGNED TO IT. YOU WILL NOT NEED TO PERFORM A COMPLETE INSTALLATION FOR EACH APPLID (AND ITS ASSOCIATED SERVER) AS THE LOADLIB, AUTOEXEC, AND ENVIRONMENT FILES MAY BE SHARED BETWEEN MULTIPLE SERVERS. REFER TO THE "DATA ACCESS LANGUAGE FOR MVS/VTAM INSTALLATION AND OPERATION GUIDE", AS WELL AS TO THE APPROPRIATE IBM PUBLICATIONS, FOR MORE INFORMATION ON VTAM APPLIDS AND SERVER FILES. REFER TO THE "DATA ACCESS LANGUAGE FOR THE MACINTOSH INSTALLATION AND USER'S GUIDE" FOR MORE INFORMATION ON THE HOSTS.CL1 (DAL PREFERENCES) FILE.

* SECURITY

THE DAL MVS/VTAM SERVER MUST BE AN AUTHORIZED TASK ON THE HOST SYSTEM IN ORDER TO IMPLEMENT SECURITY (PASSWORD) VERIFICATION. AUTHORIZATION PROCEDURES ARE EXPLAINED IN THE "DATA ACCESS LANGUAGE FOR MVS/VTAM INSTALLATION AND OPERATION GUIDE" AS WELL AS THE APPROPRIATE IBM PUBLICATIONS. USE OF THIRD-PARTY PROGRAMS TO BYPASS THE NORMAL AUTHORIZATION PROCEDURE (I.E., REFERENCE TO THE LOAD MODULE IN A SYS1.PARMLIB MEMBER) IS NOT SUPPORTED BY APPLE, AND RESULTS MAY BE UNPREDICTABLE.

* USE OF DB2 THREADS

THE DAL MVS/VTAM SERVER REUSES THE AVAILABLE THREADS WITHIN THE HOST DB2 SUBSYSTEM. EACH CONCURRENT SESSION REQUIRES ONE THREAD, WHICH IS RELEASED UPON COMPLETION OF THE DATABASE TRANSACTION (E.G., SELECT, COMMIT). THE NUMBER OF AVAILABLE DB2 THREADS IS SPECIFIED DURING INSTALLATION OF THE DB2 SUBSYSTEM. REFER TO THE APPROPRIATE IBM PUBLICATIONS FOR MORE INFORMATION.

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