## DAL: When RDB Locks Entire Database

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TOPIC -----------------------------------------------------------

When I use DAL to insert data into RDB, the whole system locks until the
user doing the insert does a commit.  It should only lock the current
record, not the entire database.

DISCUSSION ------------------------------------------------------

When using DAL with RDB, each user should have a distinct VMS account,
including unique UICs and login directories.  With a DBMS like Oracle,
which has its own user account validation system with the DBMS, you don't
need distinct VMS accounts.

However, RDB relies on VMS to let it know who is using which record.  If
RDB can't distinguish between the different accounts, it can't tell which
record is being updated, so it locks all records opened by the current
user.  Because, in this case, everyone is effectively the same user, all
records are locked for everyone until the commit is complete.

This issue was addressed in RDB 4.0 and DAL 1.3.
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