



## TEST MISSION-CRITICAL CODE

It's crucial to test DB2 Stored Procedures before placing them into production. The power and flexibility of Xpediter makes it possible for developers to ensure the thorough testing of DB2 Stored Procedures, triggers and UDFs. With the addition of Xpediter/Code Coverage, organizations can reduce risk by ensuring changes are tested before applications are placed into production. The unique Relative Risk metric allows testers to gauge the risk of placing an application into production. Xpediter/Code Coverage highlights changed and untested lines of code, helping the developer identify tested and high-risk code easily.

## TRANSITION EASILY TO NEW TECHNOLOGIES

For many organizations, DB2 Stored Procedures are being adopted as a way of connecting distributed or web-based applications to the mainframe. As with any new technology, developers are challenged to understand the underlying basics in order to build reliable, efficient and maintainable applications. As environments are upgraded to run DB2 Stored Procedures under IBM's Workload Manager, a new

range of potential error conditions is introduced. Like DB2, Workload Manager is fault tolerant, and issues return codes rather than abending whenever an error is encountered. How can developers quickly locate, understand and take corrective action when workload-managed DB2 Stored Procedures fail to execute properly, and instead issue a cryptic return code?

Compuware Abend-AID *for DB2* is fully integrated with Xpediter/TSO, and therefore available within DB2 Stored Procedures test sessions. Abend-AID *for DB2* automatically and thoroughly diagnoses all SQL codes returned during test sessions, providing the developer with a clear explanation of what is happening in the DB2/Workload Manager environment. Developers are now freed from having to search through documentation or interrupt their coworkers in order to understand the underlying problem. Their learning curve for these new technologies is improved, and higher quality, more reliable applications are put into production.

To learn more about Xpediter, visit:  
[www.compuware.com/xpediter](http://www.compuware.com/xpediter)

```
----- XPEDITER/TSO - BROWSE -----
COMMAND ==>                                SCROLL ==> CSR
                                CHARS 'DB2' FOUND
----- After PDASP1:406 -->
SYS02050.T101824.RA000.CVS001X.R0157165      dd ABEND AID line 000082
0
      DB2 Environment Data
      -----
      AADB2 Release 5.0.7
0
      SQL Return Code
      -----
SQLCODE      -303
00 value cannot be assigned to a host variable because the data types
are not compatible. Both must be numeric, both must be character
strings, or both must be graphic strings.
0Corrective action:
  Verify that table definitions are current and that the host
  variable has the proper data type.
0Following is a list of those host variables whose types are not
compatible with their matching columns.
0
0Host Variable Name/
Column Name/
Table Name      Type
-----
:VS-UNIT-PRICE      CHAR(009)
UNIT_PRICE         DECIMAL(010,002)
ITEM_SUPPLIER
0
The SQL statement returning this SQLCODE at preprocessor sequence
number 254 in program 'PDASP1' is:
EXEC SQL SELECT UNIT PRICE
-----
07/23
```

Figure 2: With Xpediter and Abend-AID, detailed descriptions of DB2 error codes are a single PF key away.

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