

Database Management Suite. IMS Debugger.

TIP (Testsystem for IMS Programs)

is a testing aid for application programs that access IMS and/or DB2 databases from an IMS environment. TIP can be used for error recognition and also for the simulation of error situations during running operation. Tests carried out and their results can be automatically documented with the aid of TIP functions.

The product offers the following features:

- IMS Debugger (TIP/Base)
- IMS/DB2 Debugger (TIP/DB2)
- IMS Dialog Router (TIP/Router)



Benefits

- Testing of all kinds of IMS Online and Batch application programs
- No special compiles required to enable debugging mode
- Simultaneous execution of the application program in debugging and production mode
- Support of all major programming languages
- Simulation of exceptional conditions, e.g. damaged data
- Performance monitoring
- Test reporting

Database systems, on the one hand, offer means for easy query and manipulation of huge amounts of data. The development and maintenance of database-oriented applications, however, requires in the majority of cases costly and time consuming testing.

The powerful features of TIP provide assistance in testing application programs for IBM's database systems DL/1 and DB2. Faster detection of bugs saves the developers' time; the ability to simulate exceptional conditions serves for the stability of the applications. Thanks to the easy installation and usage the products find high acceptance at developers and administrators as well.

No changes to IMS and application software, not even special compiles, are required in order to use TIP. The flow of the application programs is reflected in the calls to the IMS transaction manager and to the database systems DL/1 and optionally DB2.

IMS Debugger (TIP/Base)

is a debugging tool for IMS programs. It supports efficient testing, error analysis and error simulation.

First it includes the online component for interactive test of transaction-oriented IMS application programs with access to DL/1 databases.

With the possibility to navigate in either direction of the program flow, the developer can cover several test cases in a single session. Moreover, a developer is able to debug an application while other users execute the program as usual.

Second it includes the component for batch-oriented application programs. It operates for native DL1 batch applications and BMP programs as well.

The test scope can be individually tailored for each test run. Only a special JCL must be submitted to execute a batch application program under the control of TIP.

IMS/DB2 Debugger (TIP/DB2)

adds the capability of testing DB2 applications to the base package. The SQL statements to access a DB2 database are shown in a source view with the possibility to look up the host variables or related SQL statements.

Even the execution time of all kinds of database and transaction manager calls can be monitored.

Configurable reports can be generated to document the execution and the results of the tests.

IMS Dialog Router (TIP/Router)

is an add-on to the base product to enable testing of transaction-oriented IMS application programs for a non-3270 environment (e.g. banking terminals).

TIP/Router redirects the TIP test session to an associated IBM3270 compatible terminal when input from a financial terminal arrives. The output of the application program is automatically routed back to the originating terminal at the end of the test session.

Product Features

- Testing aid for application programs that access IMS and/or DB2 databases from an IMS environment
- Error recognition
- Simulation of error situations
- Automatic documentation of the test results
- Performance monitoring

Related Services

- DB2 Backup (Safety First)
- DB2 Administration (OWB)
- DB2 REXX Interface (ExecSQL)

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