

ADVANCED PROBLEM RESOLUTION FOR IDMS APPLICATIONS

Maintaining legacy IDMS applications makes good business sense. The shortage of IDMS expertise challenges IT organizations in application troubleshooting and problem solving. Abend-AID *for IDMS* delivers powerful support by resolving IDMS application failures quickly and efficiently, and keeping applications up and running.

Compuware Abend-AID *for IDMS* removes the guesswork associated with solving IDMS application faults. Information is available immediately — no additional steps or program recompiling are necessary.

Abend-AID *for IDMS* provides complete, hard-to-find, vital information, including:

- a complete currency table and database command trace to determine what a program did prior to an abend
- critical trace information
- complete environmental data for each abend
- details of what went wrong, why it went wrong and a suggested course of action
- information about data problems
- information about problems that occur without causing an abend.

The Abend-AID *for IDMS* diagnostic report presents information in an easy to-use format. IDMS programmers receive data immediately, without consulting manuals and reference cards. The report includes all IDMS data and shows the database condition when an abend occurs.

The product supports COBOL, PL/I and Assembler batch programs that operate in IDMS local mode, or under IDMS central version and in all common IDMS releases.

RESOLVE CURRENCY PROBLEMS

Abend-AID *for IDMS* displays a complete currency table for all records, sets and areas — a key advantage to resolving difficult-to-track currency problems. At a glance, programmers can view:

- a current set of records
- area usage and currency of records by area
- records, sets and areas that are not current.

In testing, programmers can use the Abend-AID SNAP-AID feature after some or all IDMS calls to obtain currency information without abending.

TRACE PROGRAM ACTIVITY

The Command Trace capabilities of Abend-AID *for IDMS* provide complete environmental data for each abend, which helps eliminate reruns. This information can be reviewed in abends and logic problems during testing, preventing errors from ever reaching production.

The Command Trace tracks the program flow of the last 10 calls, providing a complete command text, error status and description of the status. Trace capabilities also point to critical IDMS fields and techniques. This reduces the learning curve for novice programmers, who can see the program at work and learn immediately what failed.

At the time of an abend or by program request, Abend-AID *for IDMS* dynamically creates a database command trace, which specifies what the program did prior to an abend.

TRACK DATA PROBLEMS

Abend-AID *for IDMS* tracks data problems by displaying each updated record, the prior version of each current record and the contents of the records in Working Storage. All displayed data is captured before system rollback, providing an instant picture of the environment. Environment data includes:

- IDMS release number
- central version system ID
- subschema version.

The record contents can provide information when a problem occurs that does not cause an abend. Here, IDMS support uses the SNAP-AID feature in Abend-AID to give programmers necessary information to solve logic problems. Also, a dynamic database access trace helps diagnose difficult problems that involve possible deadlocks or loops.

Record Name	DB-Key	Page	Line
EMPLOYEE	01250A05	75,018	5
DEPARTMENT	0125A401	75,172	1
JOB	01259D05	75,165	5
EMPOSITION	01250A06	75,018	6
OFFICE	01259602	75,158	2
STRUCTURE	No Currency		
SKILL	No Currency		
NON-HOSP-CLAIM	No Currency		
INSURANCE-PLAN	No Currency		
HOSPITAL-CLAIM	No Currency		
EXPERTISE	No Currency		
DENTAL-CLAIM	No Currency		
COVERAGE	No Currency		

Abend-AID for IDMS displays a complete currency table for all records, sets and areas.

TAKE ADVANTAGE OF PRODUCT FAMILY INTEGRATION

In situations where IDMS applications are migrated to DB2 as part of the transition to new work load applications Abend-AID *for DB2* and Abend-AID *for CICS/DB2* provide DB2-specific assistance. Integrated capabilities and standard menus allow DBAs and lead programmers to move easily from one environment to the next. Abend-AID can help reduce the learning curve by automating the collection and diagnosis of fault data.

Program	Type	Reference	Status	Database Command
TEST0307	DML	16	0000	OBTAIN OWNER WITHIN SET OFFICE-EMPLOYEE
TEST0307	DML	10	0000	OBTAIN NEXT EMPLOYEE WITHIN SET DEPT-EMPLOYEE
TEST0307	DML	11	1601	IF EMP-EMPOSITION IS EMPTY
TEST0307	DML	12	0000	FIND FIRST WITHIN SET EMP-EMPOSITION
TEST0307	DML	13	0000	IF NOT JOB-EMPOSITION MEMBER
TEST0307	DML	14	0000	OBTAIN OWNER WITHIN SET JOB-EMPOSITION
TEST0307	DML	15	1601	IF OFFICE-EMPLOYEE IS EMPTY
TEST0307	DML	16	0000	OBTAIN OWNER WITHIN SET OFFICE-EMPLOYEE
TEST0307	DML	10	0307	OBTAIN NEXT EMPLOYEE WITHIN SET DEPT-EMPLOYEE
TEST0307	DML	18	0000	ROLLBACK

Command Trace capabilities provide complete environmental data for each abend, eliminating reruns.

