Datasheet
Fujitsu Software BS2000
AID V3.4

FUJITSU

The Advanced Interactive Debugger (AID) is a powerfull debugging system for program monitoring, error diagnosis and temporary correction of program errors.

Topics

Product characteristic

AID supports symbolic debugging of COBOL, Fortran, C/C++, C, Assembler and PL/I programs, and non-symbolic debugging of any BS2000 programs at machine code level. During symbolic debugging, the source code symbols of the programming languages mentioned can be used to address memory elements and stop labels. Non-symbolic debugging at machine code level can be used wherever symbolic debugging is insufficient or not possible, e.g. because the symbol information is not available.

The user can direct AID to interrupt program execution at specified addresses or when selected statement types are executed or defined events occur, and then to execute subcommands. A subcommand is a single command or a sequence of AID and BS2000 commands.
With AID you can see the call-hierarchy of programs. AID supports the diagnosis of a program as well as in the current system also as in a dump.
In order to be able to test a program with AID, it needs neither additional translator, or binder-runs, still the program must be loaded again.

AID can reload information, that is necessary for the symbolic test, from a PLAM-module library also dynamically.
Without test activities, the test object runs without any loss of performance.
AID supports the Unicode data type NATIONAL implemented with COBOL2000.

Product description

The AID debugging system comprises two components:
- the AID user interface and
- the AIDSYS system interface.

AID is a standalone tool, independent of the various BS2000 system versions. All the necessary system functions are handled via AIDSYS.

AID and AIDSYS are loaded as subsystems by the system administrator. The debugging system is then available to all users. All AID functions are invoked using AID commands. These start with a % character followed by the command name.

The input of AID commands and the output of messages is done via system files. Memory contents can be output to system files or to cataloged files. When data is output, AID edits the field contents in accordance with the data definition in the source program, i.e.

data field length, data type and structures are taken into account and output along with the symbolic names.

When data elements are modified, AID performs the necessary conversions, carries out the transfer according to the data type of the destination field and truncates or pads the source field to correspond to the length of the destination field. Data groups are treated as alphanumeric fields.

To enable the user to reference program names, variable names and source statement lines during symbolic debugging, the required information must be available in the * file or in a library at object compilation time.

This supplementary information consists of two parts:
- LSD records (list for symbolic debugging): list of symbolic names and statements defined in the module
- ESD records (external symbol dictionary): directory of symbolic external references of a module.

Technical Details

Requirements	
Technical Requirements Hardware	BS2000 Business Server
Technical Requirements Software	BS2000 OSD/BC V11.0, OSD/XC V11.0
User Requirements	Knowledge of BS2000

Installation	
Operating Mode	Batch and interactive dialog
Implementation Language	SPL4 and Assembler
User Interface	Commands in English Messages in English or German
Installation	Please refer to the relevant release notices.

Documentation and Training	
Documentation	The manuals for AID are available on the manual server.
Training	See course offer (German only)

Purchase and Delivery	
Conditions	This software product is provided to customers under the terms and conditions for the use of software products in return for ongoing or one-time payment.
Order and Delivery	This software product may be obtained from your local Fujitsu regional office.

Fujitsu Platform Solutions

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