



## z Systems fault analysis

Improve your speed of response to critical application problems

DumpMaster is a high-performance, high-flexibility fault analysis and recovery tool that provides fast problem resolution for critical applications

**Designed specifically for z/OS systems, DumpMaster will help minimize interruptions to your business, reduce the costs associated with unplanned application downtime, and increase productivity and efficiency by:**

- Accelerating problem awareness through email and mobile notifications that are sent automatically when an abend occurs
- Capturing the output of a failing program, pre-processing the data and providing a fast and accurate fault diagnosis while automatically analyzing the abend
- Presenting advanced handling and display of dump information and program listings to expedite the process of fault diagnosis
- Managing the collation of information associated with a detailed problem investigation which can then be shared with colleagues for collaborative analysis
- Exploiting the power of z/OS through native, browser and Eclipse interfaces

### The fault analysis solution

DumpMaster is a sophisticated post-abend fault analysis and management solution designed for z/OS mainframe systems.

It helps to identify and resolve application errors quickly, providing application developers with:

- Vital information to identify the cause of application abends
- The ability to bypass complex routines while navigating dump data with ease
- Advanced diagnostic facilities to aid rapid problem resolution

### Collaborative analysis

Abends can happen at any time during the lifecycle of an application. At times, it might not be possible for the person who wrote the code to examine it, and at other times, the developer may need the help of colleagues at different locations to compare notes.

DumpMaster overcomes these hurdles by allowing a detailed problem investigation to be compiled, through which sections of a dump can be saved, along with associated comments, to provide greater clarity of insight.

This information can then be shared with colleagues, allowing collaborative problem analysis and resolution to take place.

Macro 4's integrated suite  
for z Systems fault analysis  
and testing:

**DumpMaster**  
Fault analysis and recovery

**InSync®**  
Data management and  
manipulation

**TraceMaster**  
Interactive testing and  
debugging

**TraceMaster CodeTrack**  
CICS code path analysis  
and storage violation  
detection

## Knowledge sharing

DumpMaster allows information to be archived for future retrieval; users can intelligently match previous solutions with a dump under analysis to quickly improve their skills and resolve current problems with greater expediency.

## Rapid dynamic diagnosis

Diagnostic information is presented in a clear and logical format and serves as the gateway for all further in-depth analysis of dumps.

The failing instruction statement is always displayed; the format and content of all displays is variable depending on the abend type, program and environment.

Familiar diagnostic terms are presented to COBOL, PL/I, Assembler, C, C++, CICS, IMS, DB2, WebSphere MQ and Batch application developers.

Traditional register, base, and displacement displays are always available.

The information displayed is usually sufficient to diagnose the program error; however, if the abend cannot be resolved at this stage, DumpMaster can provide access to a number of other functions, such as the call chain list, a complete map of the data division, code disassembly, and other advanced components.

DumpMaster can produce an instant mini-dump that is incorporated into the output of a failing job when an abend occurs. This will typically contain enough information to solve the majority of program abends.

## Global source listing support

DumpMaster has extensive capabilities to access source listings wherever they reside within your organization, whether that be local to the production system or at a development site that is geographically remote.

DumpMaster will accept listings as output from compilers – there is no need to convert them to proprietary formats.

Support is provided for processing listings that are stored within proprietary source change management repositories.

## Batch, CICS, WebSphere MQ and Hogan support

DumpMaster has support for batch, CICS transaction and system dumps, WebSphere MQ and HOGAN abends. Users can obtain specific details of a program failing statement in source context for COBOL, Assembler, PL/I, C and C++.

## DB2 support

When an abending program contains evidence that DB2 was active, the DB2 summary page provides enough detail for the DB2 DBA or application programmer to resolve SQL errors or any other DB2-based problem.

## IMS support

DumpMaster presents an organized and structured series of dynamic displays keyed to IMS abends. Access to IMS-specific dump debugging information is available via the IMS diagnostics menu.

Support for IMS sites using Standardware's COPE product is also provided.

## Familiar, efficient interfaces

DumpMaster offers its comprehensive fault analysis functionality via native, browser and Eclipse interfaces, all of which are intuitive and easy to use.

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