



Rocket MXI Generation II for z/OS

Version 5, Release 2

Provides Ready Access to Critical Information About Active z/OS Systems

Rocket MXI Generation II for z/OS (MXI G2) provides systems programmers ready access to critical information about the active z/OS system. MXI offers a fast and easy-to-use ISPF interface along with a REXX API and batch reporting capability. MXI G2 extends further than any previous release, offering an enhanced ISPF interface, a REXX API, and a Java-based Consolidation and Analysis Engine and client.

Introducing a Suite of New Features and Functionality

MXI G2 introduces a suite of new features and functions:

- Most column names are now optional keywords to the MXI G2 command and accept logical operators, for example, 'DA CPU%(>0) SORT(CPU%,D)'
- View details about all of your defined z/OS systems
- Device data (such as DASD space usage) is cached at user-defined intervals against criteria including device range, volser or SMS storage group
- KILL a subtask or address space
- Obtain a summary of user subpool storage as well as the more detailed view
- 64-bit support for the MEM command
- Obtain a formatted DSECT view of memory with equate values
- Browse dataspace storage
- Obtain information about private region usage
- Out-of-the-box monitoring of important events on your system (resource problems, enq conflicts, etc.)
- A full-featured event management system that has state-of-the-art event correlation and a variety of notification tools including email and wto
- Provides context-sensitive analytical assistance so when exception events occur, appropriate analytical tools are one click away to help you to quickly determine the underlying problems
- A rich set of analytical tools for performing manual problem determination, including historical trend charts, distribution analysis, and specialized problem analysis tables (e.g. historical memory information of address spaces for analyzing system aux storage problems)
- Provides Web-based access to MXI messages, commands and monitoring

MXI G2 offers a number of enhancements to product usability that enables you to:

- Access valid line commands via pop-up menus
- View more information via new columns and widescreen layout
- Arrange columns and filter display data

Enhanced ISPF Interface and REXX Interface

MXI G2's enhanced ISPF interface supports widescreen formats. Some MXI displays are now hundreds of bytes wide and can be easily filtered, scrolled and sorted. Columns can be fixed or arranged according to your specifications and line commands and over-typeable fields are now available on most displays. Additionally, MXI G2's REXX API interface enables you to address column data directly using 'row.column.i' stem variable names.

Cmd	Jobname	Step	ProcStep	JobID	C	ASID	Pos	SM	Real	SIO	CPU%
MLM	MLM		IEFPROC			0008	N/S		1179	0	0.92
RMFGAT	RMFGAT		IEFPROC	S0718038		005E	N/S		1909	0	0.69
MXIMAST	MXIMAST		MXISRV00	S0719391		0096	N/S		3093	0	0.55
XCFAS	XCFAS		IEFPROC			0006	N/S		3142	7	0.50
VTAM	VTAM		VTAM	S0717970		001C	N/S		660	0	0.44
AMBAGT16			*OMVSEX	S0717987		0034	IN		3513	0	0.31
JES2	JES2		IEFPROC			001A	N/S		1101	9	0.23
SMSYSAM	SMSYSAM		IEFPROC			0009	N/S		1174	0	0.14
JES2MON	JES2MON		IEFPROC			0023	N/S		114	0	0.14
TCPIP2	TCPIP2		TCPIP	S0718095		0097	N/S		5055	0	0.10
Q7B2IRLM	Q7B2IRLM			S0718043		0063	N/S		535	0	0.10
C7B1IRLM	C7B1IRLM			S0718039		005E	N/S		475	0	0.10
D7B1IRLM	D7B1IRLM			S0718048		0068	N/S		491	0	0.10
D7D1IRLM	D7D1IRLM			S0718053		0060	N/S		490	0	0.09
TCPIP	TCPIP		TCPIP	S0718000		0042	N/S		1380	0	0.09
Q7B2MSTR	Q7B2MSTR		IEFPROC	S0718041		0061	N/S		526	3	0.07
GPMSERVE	GPMSERVE		STEP1	S0718036		0040	N/S		3323	0	0.07
D8BMSR	D8BMSR		IEFPROC	S0718056		0070	N/S		453	3	0.07
D8DMSTR	D8DMSTR		IEFPROC	S0718061		0075	N/S		1174	3	0.07

Workstation-Based Consolidation and Analysis Engine and Client

In-depth analysis of MXI command results:

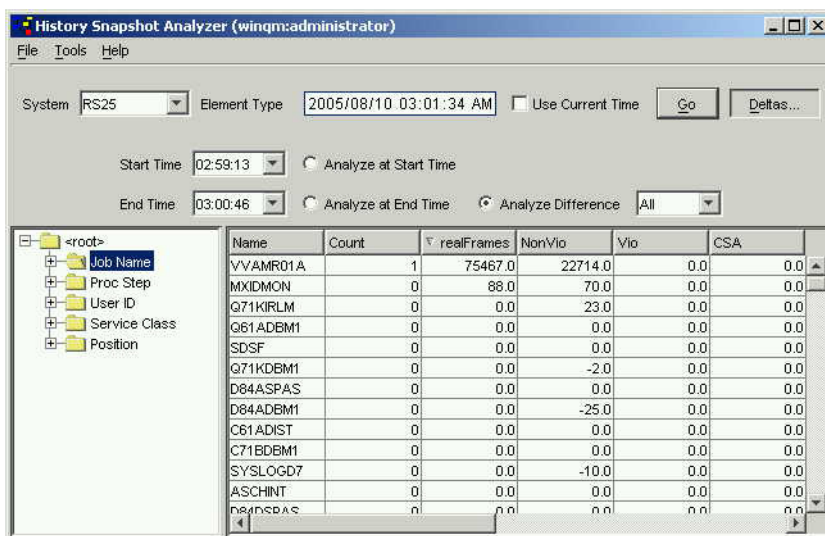
MXI's Command Analyzer tool enables you to summarize MXI command results in ways useful to you. For example, aux storage usage by active address spaces can be summarized by Job Name, Proc Step, User ID, Job Priority, or Service Class.

Find changes in MXI data over time:

The Command Analyzer quickly highlights changes between two executions of an MXI command. For example, this tool can drastically reduce the time it takes to find memory leaks in any application. Additionally, you can monitor Systems, Address Spaces, CICS Regions (requires the CICS Plug-In), and ICF Catalogs.

View & analyze historical system behavior:

MXI's CAE can gather historical data and you can perform the same analysis on this data as you can on MXI command results.



The screenshot shows the History Snapshot Analyzer interface. The system is set to RS25 and the element type is 2005/08/10 03:01:34 AM. The start time is 02:59:13 and the end time is 03:00:46. The analysis is set to 'Analyze Difference' with a filter of 'All'. The table below shows the results of the analysis.

Name	Count	realFrames	NonVio	Vio	CSA
VVAMR01A	1	75467.0	22714.0	0.0	0.0
MXIDMON	0	88.0	70.0	0.0	0.0
Q71KIRLM	0	0.0	23.0	0.0	0.0
Q61ADB1	0	0.0	0.0	0.0	0.0
SDSF	0	0.0	0.0	0.0	0.0
Q71KDB1	0	0.0	-2.0	0.0	0.0
D84ASPAS	0	0.0	0.0	0.0	0.0
D84ADB1	0	0.0	-25.0	0.0	0.0
C61ADIST	0	0.0	0.0	0.0	0.0
C71BDB1	0	0.0	0.0	0.0	0.0
SYSLOGD7	0	0.0	-10.0	0.0	0.0
ASCHINT	0	0.0	0.0	0.0	0.0
D84NSPAS	0	0.0	0.0	0.0	0.0

Autonomic event and response system:

MXI's CAE has a full-featured event and response system that alerts you to exceptional events as they happen and can issue automatic responses. This event system is smoothly integrated with the Historical Data Analysis, allowing you to quickly identify the sources of system problems.

Context-sensitive analytical assistance:

When exception events occur, appropriate analytical tools are one click away, to help you to quickly determine the underlying problems.

Extending MXI G2

MXI G2's suite of Plug-Ins enables you to extend the MXI G2 base product and gain easy access to a range of information about DB2 subsystems, CICS regions, and MQ subsystems.

TCP/IP Plug-In

The MXI TCP/IP Plug-In enables you to display TCP/IP stack information, manage TCP/IP connections and listener tasks, display information about your site's FTP activity, and much more.

CICS Plug-In

The MXI CICS Plug-In enables you to access information about CICS regions, CICS active tasks and transactions, CICS storage subpools, and CPU elapsed and wait times for CICS active tasks and transactions.

DB2 Plug-In

The MXI DB2 Plug-In enables you to view DB2 subsystem information (version, data sharing, and statistics), access information about DB2 thread statistics and SQL activity information, issue DB2 commands and cancel threads.

MQ Plug-In

The MXI MQ Plug-In enables you to display MQ subsystem information (version and status), view MQ active thread information, issue MQ commands.