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M3BE: How to use the Profile Tool in the Business Engine



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Description:

The purpose of this Knowledge Base (KB) is to provide information about the Profile tool found in the ServerView/Grid Management Pages of the M3 Business Engine. It is not meant to be all-inclusive or provide the exact steps for your environment.

More information can be found in M3 BE 15.1 and M3 Foundation 10.1 Product Documentation >> M3 Business Engine Foundation Administration Guide >> Subsystems

Resolution:**Monitor resource usage with the Profiler**

The profiler is a program that monitors how another program uses resources. The M3 Business Engine has a built-in profiler that is useful in:

- Measuring time spent in program logic
- Measuring specific database and display operations
- Measuring time and resources in the operating system

You can run the profiler for the entire subsystem, or for an individual job:

SUBSYSTEM LEVEL

The profiler can be run on subsystem level to measure performance for all jobs. When you start the profiler from the subsystem view, individual profilers are started for all the jobs in the subsystem, and additional summary data is gathered. This is useful for catching performance bottlenecks on the system level. Currently, the following subsystem types can be selected:

- Interactive
- Autostart jobs
- MI batch (Managed and Interactive jobs)

To analyze a subsystem

1. Open the view for the subsystem where you want to analyze the performance.
2. Click Profiler.
3. Click Enable to start the Profiler.
4. To update the view, click Refresh.

JOB LEVEL

The profiler can be run on the job level to measure performance for a specific job. When you start the profiler from the job view, an individual profiler relating to the specific job displays. This is useful if you know that you have a performance bottleneck in a job or you want to understand what a job is doing (hung, processing, etc.).

To analyze a job

1. Open the Job view where you want to analyze the performance.
2. Click Profiler.
3. The Profiler view shows that profiler data is unavailable.
4. Click Enable Profiler
5. Click Refresh to update the view.

Note:**EXAMPLE of profiling a Subsystem**

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Select your subsystem:

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:: Foundation: M3BE_15.1_IXS - M3BE_15.1_IXS

Navigation: Foundation: M3BE_15.1_IXS

Foundation: M3BE_15.1_IXS Log Files News Tools Settings About

Host	Name	Type	Config	Log Status	Jobs	Info
NLBAVWLGS17.infor.com	M3Coordinator	Node Coordinator		0 / 0		6d
NLBAVWLGS17.infor.com	M3Coordinator	Node Transaction Server				6d
NLBAVWLGS17.infor.com	M3ApiWS	Node M3-API-WS		0 / 0		6d
NLBAVWLGS17.infor.com	M3RemoteClassProvider	Node Remote files		0 / 0		6d
NLBAVWLGS17.infor.com	M3Auto	Node Subsystem:A	PRECONFIG	0 / 0	10 / 55	6d
NLBAVWLGS17.infor.com	M3Api	Node Subsystem:M	PRECONFIG	0 / 0	0 / 10	
NLBAVWLGS17.infor.com	M3Interactive	Node Subsystem:IW	PRECONFIG	0 / 0	0 / 30	
NLBAVWLGS17.infor.com	M3ApiProfiler	Node Subsystem:M	PRECONFIG	0 / 0	0	

Click on the Profiler link:

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:: Profiler - M3BE_15.1_IXS - M3ApiProfiler/10.21.43.26:52470-8512

Navigation: Foundation: M3BE_15.1_IXS • Subsystem: Subsystem:PRECONFIG:M

Subsystem: Subsystem:PRECONFIG:M Properties Threads Profiler Tools Logging

Node Profiler [Select...](#)

■ Profiler is disabled. [Enable](#) [Reset](#) [Settings...](#) [Export...](#)

No profile data available.

Stop the profiler when finished:

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:: Profiler - M3BE_15.1_IXS - M3ApiProfiler/10.21.43.26:52470-8512

Navigation: Foundation: M3BE_15.1_IXS • Subsystem: Subsystem:PRECONFIG:M

Subsystem: Subsystem:PRECONFIG:M Properties Threads Profiler Tools Logging

Node Profiler [Select...](#)

► Profiler is enabled. Duration: 00s. [Disable](#) [Reset](#) [Settings...](#) [Export...](#)

No profile data available.

EXAMPLE of profiling a job

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Go into your subsystem and into the individual program, click the Profiler link/button



EXPORTING YOUR PROFILED INFORMATION

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:: Profiler - M3BE_15.1_IXS - M3ApiProfiler/10.21.43.26:52470-8512

Navigation: Foundation: M3BE_15.1_IXS • Subsystem: Subsystem:PRECONFIG:M

Subsystem: Subsystem:PRECONFIG:M Properties Threads Profiler Tools Logging

Node Profiler

■ Profiler is disabled. Last duration: 02m 27s.

1 to 40 of 40

↓ Entry (1)	Count	Time (ms)	Time/Count
Subsystem	1	0.23	0.23
Subsystem->SYSTEM RUN PGC MMS200MI	2	14.69	7.35
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN	2	3.73	1.86
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CFACIL00 [CACHED]	2	0.21	0.10
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CMNCMP00 [CACHED]	4	0.39	0.10
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CMNDIV00 [CACHED]	4	0.41	0.10
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CMNLNG00 [CACHED]	2	0.20	0.10
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CMNMVX00 [CACHED]	2	0.30	0.15
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CMNSEC00 [CACHED]	2	0.20	0.10
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CMNUSR00 [CACHED]	2	0.26	0.13
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CSEFPX00 [CACHED]	2	0.19	0.10
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CSYPAR00 [CACHED]	6	1.25	0.21
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CSYTAB00 [CACHED]	6	0.66	0.11
Subsystem->SYSTEM RUN PGC MMS200MI->CSETLDA RUN->CSETLDA CHAIN CSYUSR00 [CACHED]	2	0.77	0.39

Affected Products & Releases

Affected Product	Affected Release	Patch Status	Notes
M3 BE Application Foundation	Unspecified		
M3 Foundation	Unspecified		

Recommended Articles for Products :

Recommended Articles for Releases :

Keywords : profiler;profile;subsystem;batch job;program;mform;trace;profiler tool;profile tool;m3be;serverview;grid management pages;batch job;autojob;batchjob

Type : Knowledge

Classification :

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