Hewlett Packard Enterprise

Data sheet

HPE NonStop RPM Real-time Process Monitor

Instant real-time views of CPUs, IPUs, and processes

HPE NonStop Real-time Process Monitor (RPM) software provides instantaneous performance monitoring of NonStop systems. Statistics and alerts are color-coded in real-time and sorted according to the item of interest. Color-coded alerts instantly tell you when a threshold is exceeded allowing you to discover and fix performance issues before they become bottlenecks or long-term issues.

RPM P *, ByInputs

Process	Cpu,Pin	In%	Name	Programs
\LONDON	3.321	66.46	$DATA1	TSYSDP2
11:30:00	1,237	22.12	$SRV7	DBSERVER
	2,405	22.11	$SRV5	DBSERVER
	1,312	11.12	$SRV4	DBSERVER
	0,315	11.11	$SRV1	DBSERVER
\NEWYORK	3,73	47.82	$DATA2	TSYSDP2
11:30:00	2,320	10.13	$SRV14	DBSERVER
	1,263	7.20	$DATA	DBSERVER
	0,319	.15	$QAZ07	QUERY
	0,314	.12	$QAZ06	QUERY
\TOKYO	15,947	3.19	$DATA9	TSYSDP2
11:30:00	0,124	3.13	$SRV1	DBSERVER
	1,631	2.17	$SRV9	DBSERVER
	0,204	1.15	$SRV5	DBSERVER
	1,47	1.12	$SRV3	DBSERVER

Figure 1. RPM By Inputs

Example in figure 1 shows how an RPM By Item option sorts and alerts you to busiest processes on \LONDON:

- 66.46 msg/sec for DISK $DATA1
- 22.12 msg/sec for server $SRV7
- 22.11 msg/sec for server $SRV5
- 11.12 msg/sec for server $SRV4
- 11.11 msg/sec for server $SRV1

RPM—unique real-time monitoring of NonStop CPUs, IPUs, and processes

- Universal performance monitoring paradigm displays real-time, color-encoded information
- Alerts key NonStop performance primitives
- Instant startup and display of information
- Extremely ultra-low-overhead algorithm
- Requires neither Measure nor Super security
- Multi-level color-coded thresholds provide graduated alerts… Info, Warning, Critical
- Super-scalar concurrent monitoring of 1000s of CPUs, IPUs and 1,000,000s of processes
- Monitors both OSS and NSK processes
- Discovers busiest processes in CPUs, IPUs, and Nodes for a wide range of key metrics
- Displays real-time dynamics of how different processes use different IPUs and CPUs
- Provides real-time sorting and color-alerting of the display based on performance metrics (referred to as By Items) such as CPU Busy, Inputs, Outputs, IOs, Memory, Queue length, Page Faults, and many more
- Alerts when any CPU, IPU, or process uses excessive resources
- Run time options allow wide range of interfaces and configurations
- Fully configurable sample intervals and options
- Critical, Warning, and Informative alert thresholds can be set to match your environment
- Super-cluster support allows analysis of busiest CPUs, IPUs, and processes across large collections of NonStop servers
- Useful in nearly all deployments ranging from small, medium, to large super-scalar server clusters

By Items extend the concept of "busy" in terms of CPU busy to busy in other ways such as real-time sorting and alerting of:

- Processes receiving/sending messages, or
- Processes consuming the most memory, or
- Processes with the longest input queue, or
- Processes with the most page faults, etc.

RPM Data sheet

HPE NonStop Real-time Process Monitor (RPM) software provides real-time discovery, sorting, display, and color-coded alerting of key performance metrics associated with NonStop server CPUs, IPUs, and processes.

Figure 2—Shows the RPM process metrics anatomy for By<item> options which provide real-time discovery, sorting, and alerting on NonStop server metrics. Examples of By Item metrics include: Busy, Inputs, Outputs, IOs, Memory use, Page Faults, Process File Segment use, and Queue length. A summary showing how these properties are related to NonStop processes is shown in figure 2. In addition to process metrics, RPM also provides metrics about CPUs and IPUs. RPM also displays the dynamics of how processes use CPUs and IPUs, where processes are located, whether processes have IPU affinity, the type of affinity, and how processes consume CPU and IPU cycles.

For detailed information about RPM, see RPM User's Guide at **hp.com/go/nonstop-docs**.

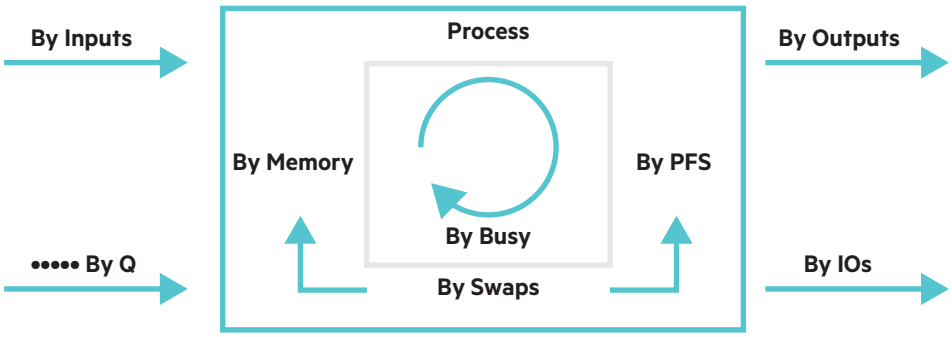

Figure 2. RPM process metrics anatomy

Ordering information

L-series Part number	J-series Part number	H-series Part number	Product name
BE153AC	QRPM01V1	HRPM01V1	HPE NonStop Real-time Process Monitor

Learn more at
hp.com/go/nonstop-docs

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