



Hewlett Packard
Enterprise

NonStop RPM

Real-time Process Monitor

Instant real-time views of CPUs, IPU, and Processes

HPE NonStop Real-time Process Monitor (RPM) software provides instantaneous performance monitoring of NonStop systems. Statistics are sorted, graphed, and alerted with color-coded real-time displays. Graphical color-coded alerts instantly tell you when a threshold is exceeded allowing you to find and fix performance issues before they become bottlenecks or long-term issues.

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RPM P \*, ByInputs
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Process  Cpu,Pin  In%   Name   Programs
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\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
    
```

RPM – Unique Real-time Monitoring of NonStop CPUs, IPU, 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, IPU and 1,000,000s of processes
- Monitors both OSS and NSK processes
- Discovers busiest Processes in CPUs, IPU, and Nodes for a wide range of key metrics
- Displays real-time dynamics of how different Processes use different IPU 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, I/Os, Memory, Queue length, Page Faults, and many more.
- Super-cluster support allows monitoring of objects across large collections of NonStop servers.
- Useful in all deployments ranging from small, medium, to large super-scalar server clusters.

Figure 1 – RPM By Inputs example above shows how the RPM By Item option sorts and alerts you to busy 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

By Items extend the concept of "busy" to other metrics such as real-time 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.

Data sheet

HPE NonStop Real-time Process Monitor (RPM) software provides real-time discovery, sorting, graphical, color-coded alerting of key performance metrics associated with NonStop servers.

Figure 2 –RPM Process Metrics Anatomy

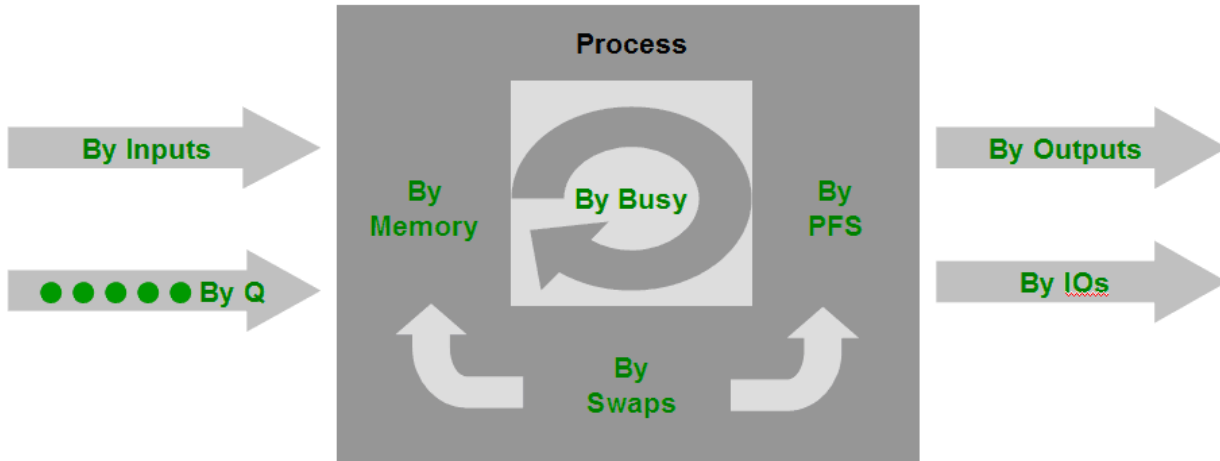


Figure 2 - Shows the RPM Process Metrics Anatomy for By<item> options which provide real-time discovery, sorting, and alerting on NonStop server metrics. Examples of By Item metrics include: Busy, Inputs, Outputs, I/Os, Memory use, Page Faults, Process File Segment use, and Queue length. A summary showing how these properties are related to NonStop processes is shown in the diagram above. 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 <http://NonstopRPM.com/Document.htm>

Ordering information

L-series Part number	J-series Part number	H-series Part number	Product name
BE153AC	QSE30v3	HSE30v3	HPE NonStop Real-time Process Monitor

Learn more at
nonstoprpm.com