

Perf

The Perf module calculates low-level performance metrics for a particular implementation of the ROME core on a system.

Process Information

Prototype Name	perf
Process Priority	1
Process Name	does not matter.
Prototype Name	resp
Process Priority	1
Process Name	"resp".
Prototype Name	up
Process Priority	> 1 (greater than the <i>perf</i> process)
Process Name	does not matter.

Module Options

PERF_USE_KPRINTF	If this option is set, the output from Perf will be printed using <i>rome_kprintf</i> rather than <i>printf</i> . This allows the performance monitor to run without an interrupt-driven serial interface, for example for the PC-based demonstration program.
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Process Operation

The measurement system comprises a performance monitor process and a responder process which exchange messages from the *Perf* messageset. A third process prints the time for which the system has been running, every 15 minutes. Both the monitor and the uptime process use the standard I/o library for output.

TESTCX	messages are handled by the main "resp" process and are used to measure the real time to perform a context switch.
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TESTQ messages are replied to from within the "resp" queue handler and are used to measure the real time to perform a Queue Handler call.