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Beyond the latency: New metrics for the real-time kernel

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The PREEMPT_RT's current metric, the latency is good. It helped to guide the development of the preempt_rt for more than a decade. However, in real-time analysis, the principal metric for the system the response time of tasks.

Generally, in addition to the latency, the response time of a task comprises the task's execution time, the blocking time on locks, the overhead associated with scheduling and so on. Although we can think on ways to measure such values on Linux, we 1) don't have a single/standardized way to do this, and 2) we don't do regression tests to see if things changed from one version to another.

This talk will discuss these points, collecting ideas on how to proceed toward the development of new metrics and ways to use them to test the kernel-rt.

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