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QPW: How to improve latency and CPU Isolation without cost

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Some kernel code implement a parallel programming strategy that grabs `local_locks()` for most of the work, and then use `schedule_work_on(cpu)` when some rare remote operations are needed. This is quite efficient for throughput, since it keeps cacheline mostly local and avoid locks in non-RT kernels, paying the price when you need to touch a remote CPU.

On the other hand, that's quite bad for RT kernels, as touching other CPU's data will require that CPU to interrupt any RT task it's running in favor of executing the requested task, while the requestor CPU waits for it's completion.

To solve that, I propose a new QPW interface that harness the `local_lock()` -> `spin_lock()` implementation in `PREEMPT_RT` to avoid above mentioned interruption without requiring extra cycles in the hot-paths, and actually causing a major reduction in the time spent by the requesting task itself.

This presentation will show the idea behind the interface, and bring numbers on latency and throughput improvements for some of the potential users of this interface.

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