
Subject: Re: [ckrm-tech] [RFC][PATCH 1/6] Introduce struct sched_entity and struct
IRQ

Posted by [Balbir Singh](#) on Tue, 12 Jun 2007 02:15:59 GMT

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Srivatsa Vaddagiri wrote:

> This patch introduces two new structures:
>
> struct sched_entity
> stores essential attributes/execution-history used by CFS core
> to drive fairness between 'schedulable entities' (tasks, users etc)
>
> struct IRQ
> runqueue used to hold ready-to-run entities
>
> These new structures are formed by grouping together existing fields in
> existing structures (task_struct and rq) and hence represents rework
> with zero functionality change.
>
> Signed-off-by : Srivatsa Vaddagiri <vatsa@linux.vnet.ibm.com>
[snip]

>
> /* CFS-related fields in a runqueue */
> +struct IRQ {
> + unsigned long raw_weighted_load;
> + #define CPU_LOAD_IDX_MAX 5
> + unsigned long cpu_load[CPU_LOAD_IDX_MAX];
> + unsigned long nr_load_updates;
> +
> + u64 fair_clock, delta_fair_clock;
> + u64 exec_clock, delta_exec_clock;
> + s64 wait_runtime;
> + unsigned long wait_runtime_overruns, wait_runtime_underruns;
> +
> + struct rb_root tasks_timeline;
> + struct rb_node *rb_leftmost;
> + struct rb_node *rb_load_balance_curr;
> +};
> +

Shouldn't the rq->lock move into IRQ?

--
Warm Regards,

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