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Subject: [PATCH 1/5] make steal time's to-tick routine generic  
Posted by [Glauber Costa](#) on Thu, 02 Feb 2012 14:19:28 GMT  
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In this patchset, I am exposing other data as ticks as well, that are originally nanoseconds. Whether or not I should do it, it is open for debate, and I am happy to drop this patch if we decide not to. But right now this exists to support the further patch that uses it.

Signed-off-by: Glauber Costa <glommer@parallels.com>

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kernel/sched/core.c | 13 ++++++-----  
1 files changed, 9 insertions(+), 4 deletions(-)

diff --git a/kernel/sched/core.c b/kernel/sched/core.c

index b9be4ba..455810f 100644

--- a/kernel/sched/core.c

+++ b/kernel/sched/core.c

@@ -850,13 +850,18 @@ EXPORT\_SYMBOL\_GPL(account\_system\_vtime);

#endif /\* CONFIG\_IRQ\_TIME\_ACCOUNTING \*/

+static inline u64 nsec\_to\_tick(u64 nsec)

+{

+ if (unlikely(nsec > NSEC\_PER\_SEC))

+ return div\_u64(nsec, TICK\_NSEC);

+

+ return \_\_iter\_div\_u64\_rem(nsec, TICK\_NSEC, &nsec);

+}

+

#ifdef CONFIG\_PARAVIRT

static inline u64 steal\_ticks(u64 steal)

{

- if (unlikely(steal > NSEC\_PER\_SEC))

- return div\_u64(steal, TICK\_NSEC);

-

- return \_\_iter\_div\_u64\_rem(steal, TICK\_NSEC, &steal);

+ return nsec\_to\_tick(steal);

}

#endif

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1.7.7.4

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