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Subject: Re: HELP:How can one VM interrupt another running VM ??

Posted by [Daniel Pittman](#) on Tue, 03 May 2011 21:41:18 GMT

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No, that is absolutely impossible. The only mechanism for that Linux provides for this is using RT scheduling and IPC, and those are not really available to you. What you are describing sounds very much like cooperative multitasking, which Linux doesn't do at this level.

Are you sure you don't want, for example, a TCP socket passing data to the "switch to" process, and then to block until the response comes back?

Daniel

On Tue, May 3, 2011 at 13:27, shule ney <neyshule@gmail.com> wrote:

> Thanks Daniel, but it's not interrupt for that thread/process, the nice  
> value just set higher priority, what I want to do is like stop the current  
> running process in one VM, context switching to another process in another  
> VM, when this process finishes, switch back to the original VM, of  
> course this preempting VM has higher nice value. Is it possible?

>

> 2011/5/3 Daniel Pittman <daniel@rimspace.net>

>>

>> On Tue, May 3, 2011 at 12:58, shule ney <neyshule@gmail.com> wrote:

>>

>> > I was wondering how can I use one VM to interrupt another running VM, is  
>> > there any scheduler support this function, or any control I can use  
>> > to implement it. For OpenVZ, is it possible to achieve this?

>>

>> Not as such, no, but: OpenVZ has a single scheduler across all threads  
>> / processes in all VEs. So, if you imagine the scheduler as working  
>> on a single system with all those tasks the normal rules of process  
>> scheduling apply.

>>

>> Which means that if you set your higher priority stuff to a high nice  
>> level, or real-time priority, it will take precedence over another VE  
>> that runs lower priority stuff.

>>

>> Finally, if you assign appropriate CPU shares to the VEs you can  
>> ensure that they will get all the time divided appropriately at a high  
>> level.

>>

>> Regards,

>> Daniel

>>

>> PS: Native Linux doesn't support this either. :)

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