
Subject: kernel thread accounted to a VE

Posted by [Eric Keller](#) on Tue, 11 Dec 2007 17:11:09 GMT

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Is it possible to start a kernel thread and then move it to a particular VE?

I have the following code inside of a kernel thread:

```
envid_t _veid = 200;
// enter that VE
unsigned flags = VE_ENTER;
int err = real_env_create(_veid, flags, 0, 0, 0); // the last 3
arguments are only used if flags is VE_CREATE
```

I needed to modify `ve_move_task()` a bit. It has the following assignment: `tsk->mm->vps_dumpable = 0;` But for kernel_threads, `tsk->mm` is NULL, so I just check if it's null and don't do the assignment if it is null. Other than that, it appears to be successful. It returns successful and in the VE I moved the task to, I can see a new process running (using `top`).

The problem is, I set a cpu limit for that VE to 10%, yet I can see this thread go well above that amount (~50%). User processes do get limited when I run them, so I know it's not a setting issue (unless there's something special I need to do for kernel threads). Note that I do not want to allow the VEs to install kernel modules, so I want the host system to do it on their behalf for a very specific circumstance.

Any ideas of what I'm doing wrong or what it'll take to make this work?

Thanks,
Eric
