## Subject: Re: [ckrm-tech] [PATCH 5/13] BC: user interface (syscalls) Posted by Balbir Singh on Wed, 06 Sep 2006 13:23:27 GMT

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Pavel Emelianov wrote:
> Balbir Singh wrote:
>> Pavel Emelianov wrote:
>>> Balbir Singh wrote:
>>>> +
>>>> +asmlinkage long sys set bcid(bcid t id)
>>>> +{
>>>> + int error:
>>>> + struct beancounter *bc;
>>>> + struct task_beancounter *task_bc;
>>>> +
>>>> + task_bc = &current->task_bc;
>>>> I was playing around with the bc patches and found that to make
>>> use of bc's, I had to actually call set bcid() and then exec() a
>>>> task/shell so that the id would stick around. Would you consider
>>> That sounds very strange as sys set bcid() actually changes current's
>>> exec bc.
>>> One note is about mm's bc - mm obtains new bc only after fork or exec -
>>> that's
>>> true. But kmemsize starts charging right after the sys_set_bcid.
>> I was playing around only with kmemsize. I think the reason for my
>> observation
>> is this
>>
>> bash --> (my utility) --> set bcid()
>> Since bash spawns my utility in a separate process, it creates and
>> assigns
>> a bean counter to it and then my utility exits. Unless it
>> spawns/exec()'s a
>> new shell, the beancounter is freed when the task exits (my utility).
> Well, beancounter is not "inherited" by parent task:)
> After setting bcid you need to spawn/exec a new shell.
> But seeting limits and getting stats is possible from the old shell
> as well as from the new one.
```

That's what I suspected. I suggest changing the system call to allow adding any task to a particular id (not necessarily only the current one). It would help us group tasks to a particular id. It would also solve my problem of spawning a shell each time I decide to use a task with a beancounter and limits.

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>>>> changing sys_set_bcid to sys_set_task_bcid() or adding a new >>>> system call sys_set_task_bcid()? We could pass the pid that we >>>> intend to associate with the new id. This also means we'll need
```

>>>> locking around to protect task->task\_bc. >> Balbir Singh, Linux Technology Center, IBM Software Labs