
Subject: Re: [ckrm-tech] [PATCH 5/7] BC: user interface (syscalls)
Posted by [Chandra Seetharaman](#) on Wed, 30 Aug 2006 19:15:23 GMT
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On Tue, 2006-08-29 at 18:55 +0400, Kirill Korotaev wrote:

> Add the following system calls for BC management:
> 1. sys_get_bcid - get current BC id
> 2. sys_set_bcid - change exec_ and fork_ BCs on current
> 3. sys_set_bclimit - set limits for resources consumptions
> 4. sys_get_bcstat - return br_resource_parm on resource

>
> Signed-off-by: Pavel Emelianov <xemul@sw.ru>
> Signed-off-by: Kirill Korotaev <dev@sw.ru>

>
> ---
<snip>

```
> +
> +asmlinkage long sys_set_bclimit(bcid_t id, unsigned long resource,
> + unsigned long __user *limits)
> +{
> + int error;
> + unsigned long flags;
> + struct beancounter *bc;
> + unsigned long new_limits[2];
> +
> + error = -EPERM;
> + if(!capable(CAP_SYS_RESOURCE))
> + goto out;
> +
> + error = -EINVAL;
> + if (resource >= BC_RESOURCES)
> + goto out;
> +
> + error = -EFAULT;
> + if (copy_from_user(&new_limits, limits, sizeof(new_limits)))
> + goto out;
> +
> + error = -EINVAL;
> + if (new_limits[0] > BC_MAXVALUE || new_limits[1] > BC_MAXVALUE ||
> + new_limits[0] > new_limits[1])
> + goto out;
> +
> + error = -ENOENT;
> + bc = beancounter_findcreate(id, BC_LOOKUP);
> + if (bc == NULL)
> + goto out;
```

Moving this to be before copy_from_user() would be efficient.

```
> +  
> + spin_lock_irqsave(&bc->bc_lock, flags);  
> + bc->bc_parms[resource].barrier = new_limits[0];  
> + bc->bc_parms[resource].limit = new_limits[1];  
> + spin_unlock_irqrestore(&bc->bc_lock, flags);  
> +  
> + put_beancounter(bc);  
> + error = 0;  
> +out:  
> + return error;  
> +}  
<snip>  
--
```

```
-----  
Chandra Seetharaman      | Be careful what you choose....  
- sekharan@us.ibm.com   | .....you may get it.  
-----
```
