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Subject: Re: [RFC][mm PATCH 2/8] Memory controller containers setup (v3)

Posted by [Balbir Singh](#) on Sat, 21 Jul 2007 17:04:01 GMT

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Paul Menage wrote:

> On 7/20/07, Balbir Singh <balbir@linux.vnet.ibm.com> wrote:

>>

>> +config CONTAINER\_MEM\_CONT

>> + bool "Memory controller for containers"

>> + select CONTAINERS

>

> Andrew asked me to not use "select" in Kconfig files due to some

> unspecified problems seen in the past, so my latest patchset makes the

> subsystems depend on containers rather than selecting them; I prefer

> the select approach over the dependency approach, but if select does

> have problems then we should be consistent.

>

I'll change it to depends

>> +static struct cftype mem\_container\_usage = {

>> + .name = "mem\_usage",

>> + .private = RES\_USAGE,

>

> For V11, the .name field should just be called something like 'usage';

> the subsystem name is automatically prefixed.

>

Will change

>> +

>> +static int mem\_container\_create(struct container\_subsys \*ss,

>> + struct container \*cont)

>> +{

>> + struct mem\_container \*mem;

>> +

>> + mem = kzalloc(sizeof(struct mem\_container), GFP\_KERNEL);

>> + if (!mem)

>> + return -ENOMEM;

>> +

>> + res\_counter\_init(&mem->res);

>> + cont->subsys[mem\_container\_subsys\_id] = &mem->css;

>> + mem->css.container = cont;

>> + return 0;

>

> For the V11 patchset, you'll want to replace these three lines with just

>

> return &mem->css;

>

Will do

```
>> +static int mem_container_populate(struct container_subsys *ss,
>> +                               struct container *cont)
>> +{
>> +    int rc = 0;
>> +
>> +    rc = container_add_file(cont, &mem_container_usage);
>> +    if (rc < 0)
>> +        goto err;
>> +
>> +    rc = container_add_file(cont, &mem_container_limit);
>> +    if (rc < 0)
>> +        goto err;
>> +
>> +    rc = container_add_file(cont, &mem_container_failcnt);
>> +    if (rc < 0)
>> +        goto err;
>> +
```

>

> There's a container\_add\_files() API in V10 and above that lets you  
> register an array of files in one go.

>

Cool! I'll migrate to that.

```
>> +
>> +err:
>> +    return rc;
>> +}
>> +
>> +struct container_subsys mem_container_subsys = {
>> +    .name = "mem_container",
>> +
```

>

> Maybe just "memory" or "pages" for the container name?

>

Traditionally names like memory\_control have been used to indicate the purpose of the controller. I understand that container is an overloaded term, so I guess memory might be a better name.

> Paul

--

Warm Regards,

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Containers mailing list  
Containers@lists.linux-foundation.org  
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