
Subject: Re: [RFC][mm PATCH 1/8] Memory controller resource counters (v3)
Posted by [Balbir Singh](#) on Sat, 21 Jul 2007 17:00:57 GMT

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Paul Menage wrote:

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

```
>> +
>> +ssize_t res_counter_read(struct res_counter *counter, int member,
>> +      const char __user *userbuf, size_t nbytes, loff_t *pos)
>> +{
>> +    unsigned long *val;
>> +    char buf[64], *s;
>> +
>> +    s = buf;
>> +    val = res_counter_member(counter, member);
>> +    s += sprintf(s, "%lu\n", *val);
>> +    return simple_read_from_buffer((void __user *)userbuf, nbytes,
>> +      pos, buf, s - buf);
>> +}
>
> I think it should be possible to use the support built-in to task
> containers to export a uint64 rather than having to create a separate
> function here.
>
```

That sounds like an easy thing to do, but that means we need to standardize on the uint64 data type for all platforms.

```
>> +
>> +ssize_t res_counter_write(struct res_counter *counter, int member,
>> +      const char __user *userbuf, size_t nbytes, loff_t *pos)
>> +{
>> +    int ret;
>> +    char *buf, *end;
>> +    unsigned long tmp, *val;
>> +
>> +    buf = kmalloc(nbytes + 1, GFP_KERNEL);
>> +    ret = -ENOMEM;
>> +    if (buf == NULL)
>> +        goto out;
>> +
>> +    buf[nbytes] = '\0';
>> +    ret = -EFAULT;
>> +    if (copy_from_user(buf, userbuf, nbytes))
>> +        goto out_free;
>> +
>> +    ret = -EINVAL;
>> +    tmp = simple_strtoul(buf, &end, 10);
```

```
>> +    if (*end != '\0')
>> +        goto out_free;
>> +
>> +    val = res_counter_member(counter, member);
>> +    *val = tmp;
>> +    ret = nbytes;
>> +out_free:
>> +    kfree(buf);
>> +out:
>> +    return ret;
>> +}
>
> I should probably add a generic "write uint64" wrapper to task
> containers as well.
>
```

Sounds good, that will be really helpful.

```
> Paul
>
> --
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> the body to majordomo@kvack.org. For more info on Linux MM,
> see: http://www.linux-mm.org/ .
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```

```
--
Warm Regards,
Balbir Singh
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```

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