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Subject: Re: [RFC][mm] [2/2] Simple stats for memory resource controller  
Posted by [Balbir Singh](#) on Sun, 06 Apr 2008 06:23:37 GMT

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Balaji Rao wrote:

```
> This patch implements trivial statistics for the memory resource controller.
>
> Signed-off-by: Balaji Rao <balajirao@gmail.com>
> CC: Balbir Singh <balbir@linux.vnet.ibm.com>
> CC: Dhaval Giani <dhaval@linux.vnet.ibm.com>
>
> diff --git a/mm/memcontrol.c b/mm/memcontrol.c
> index a860765..ca98b21 100644
> --- a/mm/memcontrol.c
> +++ b/mm/memcontrol.c
> @@ -47,6 +47,8 @@ enum mem_cgroup_stat_index {
>  */
> MEM_CGROUP_STAT_CACHE, /* # of pages charged as cache */
> MEM_CGROUP_STAT_RSS, /* # of pages charged as rss */
> + MEM_CGROUP_STAT_PGPGIN_COUNT, /* # of pages paged in */
> + MEM_CGROUP_STAT_PGPGOUT_COUNT, /* # of pages paged out */
>
> MEM_CGROUP_STAT_NSTATS,
> };
> @@ -198,6 +200,13 @@ static void mem_cgroup_charge_statistics(struct mem_cgroup *mem,
int flags,
> __mem_cgroup_stat_add_safe(stat, MEM_CGROUP_STAT_CACHE, val);
> else
> __mem_cgroup_stat_add_safe(stat, MEM_CGROUP_STAT_RSS, val);
> +
> + if (charge)
> + __mem_cgroup_stat_add_safe(stat,
> + MEM_CGROUP_STAT_PGPGIN_COUNT, 1);
> + else
> + __mem_cgroup_stat_add_safe(stat,
> + MEM_CGROUP_STAT_PGPGOUT_COUNT, 1);
> }
>
> static struct mem_cgroup_per_zone *
> @@ -897,6 +906,8 @@ static const struct mem_cgroup_stat_desc {
> } mem_cgroup_stat_desc[] = {
> [MEM_CGROUP_STAT_CACHE] = { "cache", PAGE_SIZE, },
> [MEM_CGROUP_STAT_RSS] = { "rss", PAGE_SIZE, },
> + [MEM_CGROUP_STAT_PGPGIN_COUNT] = {"pgpgin", 1, },
> + [MEM_CGROUP_STAT_PGPGOUT_COUNT] = {"pgpgout", 1, },
> };
>
> static int mem_control_stat_show(struct cgroup *cont, struct cftype *cft,
```

>

Looks good to me. I wonder if pcpin/pcpgout per second will be a useful metric, to see how fast things are changing within the cgroup.

Acked-by: Balbir Singh <balbir@linux.vnet.ibm.com>

Let me test this patch right away.

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Warm Regards,  
Balbir Singh  
Linux Technology Center  
IBM, ISTL

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Containers mailing list  
Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

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