Subject: Re: [RFC][PATCH] memory controller per zone patches take 2 [4/10] calculate mapped ratio for memory
Posted by yamamoto on Thu, 22 Nov 2007 08:46:47 GMT
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> On Thu, 22 Nov 2007 17:34:20 +0900 (JST)
> yamamoto@valinux.co.jp (YAMAMOTO Takashi) wrote:
>
> > > > > > + /* usage is recorded in bytes */
> > > > > > + total = mem->res.usage >> PAGE_SHIFT;
> > > > > > + rss = mem_cgroup_read_stat(&mem->stat, MEM_CGROUP_STAT_RSS);
> > > > > > + return (rss * 100) / total;
> > > > >
> > > > Never tried 64 bit division on a 32 bit system. I hope we don't
> > > > have to resort to do_div() sort of functionality.
> > > >
> > > Hmm, maybe it's better to make these numebrs be just "long".
> > > I'll try to change per-cpu-counter implementation.
> > >
> > > Thanks,
> > > -Kame
> >
> > besides that, i think 'total' can be zero here.
> >
> Ah, This is what I do now.
> ==
> +/*
> + * Calculate mapped_ratio under memory controller. This will be used in
> + * vmscan.c for deteremining we have to reclaim mapped pages.
> + */
> +int mem_cgroup_calc_mapped_ratio(struct mem_cgroup *mem)
> +{
> +	long total, rss;
> +
> +	/*
> +	 * usage is recorded in bytes. But, here, we assume the number of
> +	 * physical pages can be represented by "long" on any arch.
> +	 */
> +	total = (long) (mem->res.usage >> PAGE_SHIFT);
> +	rss = (long)mem_cgroup_read_stat(&mem->stat, MEM_CGROUP_STAT_RSS);
> +	return (int)((rss * 100L) / total);
> +}
> ==
>
> maybe works well.
>
> -Kame

i meant that "/ total" can cause a division-by-zero exception.

YAMAMOTO Takashi

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