
Subject: Re: [RFC][PATCH] memory controller per zone patches take 2 [4/10]
calculate mapped ratio for memory

Posted by [KAMEZAWA Hiroyuki](#) on Thu, 22 Nov 2007 08:40:15 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

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