Subject: Re: [PATCH 8/8] Per-container pages reclamation Posted by Balbir Singh on Tue, 24 Apr 2007 11:01:07 GMT View Forum Message <> Reply to Message

Pavel Emelianov wrote: > Balbir Singh wrote: >> Pavel Emelianov wrote: >>> Implement try\_to\_free\_pages\_in\_container() to free the >>> pages in container that has run out of memory. >>> >>> The scan\_control->isolate\_pages() function isolates the >>> container pages only. >>> >> Pavel, >> >> I've just started playing around with these patches, I preferred >> the approach of v1. Please see below >> >>> +static unsigned long isolate\_container\_pages(unsigned long nr\_to\_scan, struct list head \*src, struct list head \*dst, >>> + unsigned long \*scanned, struct zone \*zone) >>> + >>> +{ unsigned long nr\_taken = 0; >>> +

- >>> + struct page \*page;
- >>> + struct page\_container \*pc;
- >>> + unsigned long scan;
- >>> + LIST\_HEAD(pc\_list);
- >>> +

```
>>> + for (scan = 0; scan < nr_to_scan && !list_empty(src); scan++) {</pre>
```

- >>> + pc = list\_entry(src->prev, struct page\_container, list);
- >>> + page = pc->page;

```
>>> + if (page_zone(page) != zone)
```

```
>>> + continue;
```

>> shrink\_zone() will walk all pages looking for pages belonging to this

```
>
```

> No. shrink\_zone() will walk container pages looking for pages in the desired zone.

```
> Scann through the full zone is done on global memory shortage.
```

```
>
```

Yes, I see that now. But for each zone in the system, we walk through the containers list - right?

I have some more fixes, improvements that I want to send across. I'll start sending them out to you as I test and verify them.

>> container and this slows down the reclaim quite a bit. Although we've >> reused code, we've ended up walking the entire list of the zone to >> find pages belonging to a particular container, this was the same
>> problem I had with my RSS controller patches.
>>
>> +
>>> +
 list\_move(&pc->list, &pc\_list);
>> +
>>
>
-Warm Regards,

Balbir Singh Linux Technology Center IBM, ISTL

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