
Subject: Re: [PATCH 8/8] Per-container pages reclamation

Posted by [xemul](#) on Tue, 24 Apr 2007 11:37:38 GMT

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Balbir Singh wrote:

> 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++) {

>>>> + 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?

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.

That's great! :) Thanks for participation.

```
>
>>> 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);
>>>> +
>>>
>>
>
>
```
