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

Posted by [xemul](#) on Tue, 24 Apr 2007 10:29:58 GMT

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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.

> 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);

>> +

>

>
