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);
>>> +
>>> +
>>> +
>>> +
| list_move(&pc->list, &pc_list);
>>> +
>>> +
| list_move(&pc->list, &pc_list);
| lis
```