

Rohit Seth wrote:

> On Thu, 2006-08-17 at 17:35 +0400, Kirill Korotaev wrote:

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>>>My preference would be to have container (I keep on saying container,  
>>>but resource beancounter) pointer embeded in task, mm(not sure),  
>>>address\_space and anon\_vma structures. This should allow us to track  
>>>user land pages optimally. But for tracking kernel usage on behalf of  
>>>user, we will have to use an additional field (unless we can re-use  
>>>mapping). Please correct me if I'm wrong, though all the kernel  
>>>resources will be allocated/freed in context of a user process. And at  
>>>that time we know if a allocation should succeed or not. So we may  
>>>actually not need to track kernel pages that closely. We are not going  
>>>to run reclaim on any of them anyways.

>>

>>objects are really allocated in process context

>>(except for TCP/IP and other softirqs which are done in arbitrary  
>>process context!)

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> Can these pages be tagged using mapping field of the page struct.  
kernel pages can be tagged with mapping field.

User pages - not. So we introduce 2 pointers in the union:

```
union {  
    page_ub // for kernel pages  
    page_pb // for user pages  
}
```

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>>And objects are not always freed in correct context (!).

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> You mean beyond Networking and softirq.

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>>Note, page\_ub is not for \_user\_ pages. user pages accounting will be added  
>>in next patch set. page\_ub is added to track kernel allocations.

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> But will the page\_ub be used for some purpose for user land pages?  
yes. see above.

