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Subject: [PATCH] memory cgroup enhancements take 4 [0/8] intro  
Posted by [KAMEZAWA Hiroyuki](#) on Wed, 31 Oct 2007 10:22:13 GMT  
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Hi, this set is for enhancements for memory cgroup I have now.  
Tested on x86\_64 and passed some tests.  
All are against 2.6.23-mm1 + previous memory cgroup bugfix patches.

Any comments are welcome.

Patch contents:

[1/8] .... fix zone handling in try\_to\_free\_mem\_cgroup\_page  
This is bug fix.

[2/8] .... force\_empty interface for dropping all account in empty cgroup  
enhancements for easy deleting empty cgroup which was used  
for memory control. Without this, deleting will fail  
in many case.

[3/8] .... remember "a page is charged as page cache"  
record as what a page is charged.

[4/8] .... remember "a page is on active list of cgroup or not"  
for future use. (can be skipped.)  
will be useful for reclaim routine enhance

[5/8] .... add status accounting function for memory cgroup  
infrastructure for accounting.  
will be used in memory.stat file

[6/8] .... add memory.stat file  
showing # of RSS and CACHEes by memory.stat file  
and other \*memory specific\* data in future.

[7/8] .... pre destroy handler  
add cgroup pre\_destroy handler before calling destroy handler.

[8/8] .... implicit force\_empty at rmdir()  
call force\_empty in pre\_destroy handler.  
This allows rmdir() to success always if cgroup is empty.

Reflected all comments against take3 and dropped zonestat.

Thanks,  
-Kame

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