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Subject: [PATCH 0/1, v9] cgroup/freezer: add per freezer duty ratio control  
Posted by [jacob.jun.pan](#) on Tue, 15 Feb 2011 22:09:09 GMT  
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From: Jacob Pan <jacob.jun.pan@linux.intel.com>

Fixing subject in cover letter, should be v4 instead of v3

Changelog:

v9: - merged duty ratio related data structs

- removed toggling bit, replaced with freezer->state
- consolidated toggling mode cancellation function
- use spin lock to protect duty ratio parameter writes
- use second as period
- allow 0% and 100% frozen time, aligned behavior with freezer\_write()

v8: - minor clean up

v7: - use delayed workqueue instead of per cgroup kernel thread to manage toggling

- make freezer.state higher priority than duty ratio setting
- small correction in documentation

v6: - remove check for duty ratio == 100 case

v5: - improve error handling in duty ratio/ period writes

- fix the logic to avoid kthread creation when ratio and period are invalid.
- 100% frozen is not permitted in duty ratio set up

v4: - limit kthread creation only when valid duty ratio parameters are given.

- changed period back to millisecond
- consolidated paramter write functions

v3: - added documentation

v2:

- use read\_u64/write\_u64 instead of string read/write
- use period in second instead of ms
- renamed duty\_ratio to duty\_ratio\_pct, be more specific
- removed locking around period and duty\_ratio reads

Jacob Pan (1):

cgroup/freezer: add per freezer duty ratio control

Documentation/cgroups/freezer-subsystem.txt | 23 ++++++  
kernel/cgroup\_freezer.c | 109 ++++++  
2 files changed, 130 insertions(+), 2 deletions(-)

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