
Subject: [PATCH][for -mm] per-zone and reclaim enhancements for memory controller take 3 [1/10] add scan_glob

Posted by [KAMEZAWA Hiroyuki](#) on Tue, 27 Nov 2007 02:57:00 GMT

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add macro scan_global_lru().

This is used to detect which scan_control scans global lru or mem_cgroup lru. And compiled to be static value (1) when memory controller is not configured. This may make the meaning obvious.

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mm/vmscan.c | 17 ++++++++-----
1 file changed, 12 insertions(+), 5 deletions(-)

Index: linux-2.6.24-rc3-mm1/mm/vmscan.c

```
=====
--- linux-2.6.24-rc3-mm1.orig/mm/vmscan.c 2007-11-26 15:31:19.000000000 +0900
+++ linux-2.6.24-rc3-mm1/mm/vmscan.c 2007-11-26 16:38:46.000000000 +0900
@@ -127,6 +127,12 @@
static LIST_HEAD(shrinker_list);
static DECLARE_RWSEM(shrinker_rwsem);

+#ifdef CONFIG_CGROUP_MEM_CONT
+#define scan_global_lru(sc) (!sc->mem_cgroup)
+#else
+#define scan_global_lru(sc) (1)
+#endif
+
+/*
+ * Add a shrinker callback to be called from the vm
+ */
@@ -1290,11 +1296,12 @@
+ * Don't shrink slabs when reclaiming memory from
+ * over limit cgroups
+ */
- if (sc->mem_cgroup == NULL)
+ if (scan_global_lru(sc)) {
+ shrink_slab(sc->nr_scanned, gfp_mask, lru_pages);
- if (reclaim_state) {
- nr_reclaimed += reclaim_state->reclaimed_slab;
- reclaim_state->reclaimed_slab = 0;
+ if (reclaim_state) {
+ nr_reclaimed += reclaim_state->reclaimed_slab;
+ reclaim_state->reclaimed_slab = 0;
```

```

+ }
}
total_scanned += sc->nr_scanned;
if (nr_reclaimed >= sc->swap_cluster_max) {
@@ -1321,7 +1328,7 @@
congestion_wait(WRITE, HZ/10);
}
/* top priority shrink_caches still had more to do? don't OOM, then */
- if (!sc->all_unreclaimable && sc->mem_cgroup == NULL)
+ if (!sc->all_unreclaimable && scan_global_lru(sc))
ret = 1;
out:
/*

```

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