Subject: [RFC][for -mm] memory cgroup enhancements take3 [1/9] fix try_to_free_mem_cgroup_pages() numa handl
Posted by KAMEZAWA Hiroyuki on Tue, 30 Oct 2007 11:14:31 GMT
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Because NODE_DATA(node)->node_zonelists[] is guaranteed to contain
all necessary zones, it is not necessary to use for_each_online_node.

And this for_each_online_node() makes reclaim routine start always
from node 0. This is bad. This patch will make relcaim code start
from caller's node.

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```
 mm/vmscan.c |    8 +++-----
 1 file changed, 3 insertions(+), 5 deletions(-)

Index: devel-2.6.23-mm1/mm/vmscan.c
===================================================================
--- devel-2.6.23-mm1.orig/mm/vmscan.c
+++ devel-2.6.23-mm1/mm/vmscan.c
@@ -1375,15 +1375,13 @@ unsigned long try_to_free_mem_cgroup_pag
   .mem_cgroup = mem_cont,
   .isolate_pages = mem_cgroup_isolate_pages,
  };
- int node;
+ int node = numa_node_id();
  struct zone **zones;
  int target_zone = gfp_zone(GFP_HIGHUSER_MOVABLE);

- for_each_online_node(node) {
-  zones = NODE_DATA(node)->node_zonelists[target_zone].zones;
-  if (do_try_to_free_pages(zones, sc.gfp_mask, &sc))
+ zones = NODE_DATA(node)->node_zonelists[target_zone].zones;
+ if (do_try_to_free_pages(zones, sc.gfp_mask, &sc))
    return 1;
- }
  return 0;
 }
 #endif
```

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