Subject: [PATCH 2/4] Add a __GFP_SLABMEMCG flag
Posted by Glauber Costa on Fri, 08 Jun 2012 09:43:19 GMT
View Forum Message <> Reply to Message

This flag is used to indicate to the callees that this allocation will be
serviced to the kernel. It is not supposed to be passed by the callers
of kmem_cache_alloc, but rather by the cache core itself.

CC: Christoph Lameter <cl@linux.com>
CC: Pekka Enberg <penberg@cs.helsinki.fi>
CC: Michal Hocko <mhocko@suse.cz>
CC: Kamezawa Hiroyuki <kamezawa.hiroyu@jp.fujitsu.com>
CC: Johannes Weiner <hannes@cmpxchg.org>
CC: Suleiman Souhlal <suleiman@google.com>
---
 include/linux/gfp.h | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)

diff --git a/include/linux/gfp.h b/include/linux/gfp.h
index 581e74b..05cfbc2 100644
--- a/include/linux/gfp.h
+++ b/include/linux/gfp.h
@@ -37,6 +37,7 @@ struct vm_area_struct;
 #define ___GFP_NO_KSWAPD 0x400000u
 #define ___GFP_OTHER_NODE 0x800000u
 #define ___GFP_WRITE 0x1000000u
+#define ___GFP_SLABMEMCG 0x2000000u

 /*
  * GFP bitmasks..
@@ -87,6 +88,7 @@ struct vm_area_struct;
 #define __GFP_NO_KSWAPD ((__force gfp_t)___GFP_NO_KSWAPD)
 #define __GFP_OTHER_NODE ((__force gfp_t)___GFP_OTHER_NODE) /* On behalf of other node */
 #define __GFP_WRITE ((__force gfp_t)___GFP_WRITE) /* Allocator intends to dirty page */
+#define __GFP_SLABMEMCG ((__force gfp_t)___GFP_SLABMEMCG)/* Allocation comes from a memcg slab */

 /*
  * This may seem redundant, but it's a way of annotating false positives vs.
@@ -94,7 +96,7 @@ struct vm_area_struct;
  */
 #define __GFP_NOTRACK_FALSE_POSITIVE (__GFP_NOTRACK)

-#define __GFP_BITS_SHIFT 25 /* Room for N __GFP_FOO bits */
+#define __GFP_BITS_SHIFT 26 /* Room for N __GFP_FOO bits */
 #define __GFP_BITS_MASK ((__force gfp_t)((1 << __GFP_BITS_SHIFT) - 1))

/* This equals 0, but use constants in case they ever change */
--
1.7.10.2