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Subject: [PATCH v5 05/14] Add a \_\_GFP\_KMEMCG flag  
Posted by [Glauber Costa](#) on Tue, 16 Oct 2012 10:16:42 GMT  
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This flag is used to indicate to the callees that this allocation is a kernel allocation in process context, and should be accounted to current's memcg. It takes numerical place of the of the recently removed \_\_GFP\_NO\_KSWAPD.

[ v4: make flag unconditional, also declare it in trace code ]

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---  
include/linux/gfp.h | 3 ++-  
include/trace/events/gfpflags.h | 1 +  
2 files changed, 3 insertions(+), 1 deletion(-)

diff --git a/include/linux/gfp.h b/include/linux/gfp.h  
index 02c1c97..9289d46 100644

--- a/include/linux/gfp.h

+++ b/include/linux/gfp.h

```
@@ -31,6 +31,7 @@ struct vm_area_struct;  
#define __GFP_THISNODE 0x40000u  
#define __GFP_RECLAIMABLE 0x80000u  
#define __GFP_NOTRACK 0x200000u  
+#define __GFP_KMEMCG 0x400000u  
#define __GFP_OTHER_NODE 0x800000u  
#define __GFP_WRITE 0x1000000u
```

```
@@ -87,7 +88,7 @@ struct vm_area_struct;
```

```
#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_KMEMCG ((__force gfp_t) __GFP_KMEMCG) /* Allocation comes from a  
memcg-accounted resource */  
/*
```

```
 * This may seem redundant, but it's a way of annotating false positives vs.
```

```
* allocations that simply cannot be supported (e.g. page tables).
diff --git a/include/trace/events/gfpflags.h b/include/trace/events/gfpflags.h
index 9391706..730df12 100644
--- a/include/trace/events/gfpflags.h
+++ b/include/trace/events/gfpflags.h
@@ -36,6 +36,7 @@
 { (unsigned long)__GFP_RECLAIMABLE, "GFP_RECLAIMABLE"}, \
 { (unsigned long)__GFP_MOVABLE, "GFP_MOVABLE"}, \
 { (unsigned long)__GFP_NOTRACK, "GFP_NOTRACK"}, \
+ { (unsigned long)__GFP_KMEMCG, "GFP_KMEMCG"}, \
 { (unsigned long)__GFP_OTHER_NODE, "GFP_OTHER_NODE"} \
) : "GFP_NOWAIT"

--
1.7.11.7
```

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