
Subject: [PATCH v3 03/28] slab: rename gfpflags to allocflags

Posted by [Glauber Costa](#) on Fri, 25 May 2012 13:03:23 GMT

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A consistent name with slub saves us an accessor function.
In both caches, this field represents the same thing. We would like to use it from the mem_cgroup code.

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```
include/linux/slab_def.h | 2 +-
mm/slab.c                 | 10 ++++++-----
2 files changed, 6 insertions(+), 6 deletions(-)
```

diff --git a/include/linux/slab_def.h b/include/linux/slab_def.h

index fbd1117..d41effe 100644

--- a/include/linux/slab_def.h

+++ b/include/linux/slab_def.h

```
@@ -39,7 +39,7 @@ struct kmem_cache {
    unsigned int gfporder;
```

```
    /* force GFP flags, e.g. GFP_DMA */
```

```
- gfp_t gfpflags;
```

```
+ gfp_t allocflags;
```

```
    size_t colour; /* cache colouring range */
```

```
    unsigned int colour_off; /* colour offset */
```

diff --git a/mm/slab.c b/mm/slab.c

index 8658d72..1057a32 100644

--- a/mm/slab.c

+++ b/mm/slab.c

```
@@ -1798,7 +1798,7 @@ static void *kmem_getpages(struct kmem_cache *cachep, gfp_t flags,
int nodeid)
```

```
    flags |= __GFP_COMP;
```

```
    #endif
```

```
- flags |= cachep->gfpflags;
```

```
+ flags |= cachep->allocflags;
```

```
    if (cachep->flags & SLAB_RECLAIM_ACCOUNT)
```

```
        flags |= __GFP_RECLAIMABLE;
```

```
@@ -2508,9 +2508,9 @@ kmem_cache_create (const char *name, size_t size, size_t align,
```

```
    cachep->colour = left_over / cachep->colour_off;
```

```
    cachep->slab_size = slab_size;
```

```
    cachep->flags = flags;
```

```
- cachep->gfpflags = 0;
```

```

+ cachep->allocflags = 0;
  if (CONFIG_ZONE_DMA_FLAG && (flags & SLAB_CACHE_DMA))
-  cachep->gfpflags |= GFP_DMA;
+  cachep->allocflags |= GFP_DMA;
  cachep->buffer_size = size;
  cachep->reciprocal_buffer_size = reciprocal_value(size);

```

```

@@ -2857,9 +2857,9 @@ static void kmem_flagcheck(struct kmem_cache *cachep, gfp_t flags)
{
  if (CONFIG_ZONE_DMA_FLAG) {
    if (flags & GFP_DMA)
-    BUG_ON(!(cachep->gfpflags & GFP_DMA));
+    BUG_ON(!(cachep->allocflags & GFP_DMA));
    else
-    BUG_ON(cachep->gfpflags & GFP_DMA);
+    BUG_ON(cachep->allocflags & GFP_DMA);
  }
}

```

--

1.7.7.6
