
Subject: Re: [PATCH v2 06/13] slab: Add kmem_cache_gfp_flags() helper function.
Posted by [Glauber Costa](#) on Wed, 14 Mar 2012 11:48:09 GMT

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On 03/14/2012 03:21 AM, Suleiman Souhlal wrote:

> On Sun, Mar 11, 2012 at 3:53 AM, Glauber Costa<glommer@parallels.com> wrote:

>> On 03/10/2012 12:39 AM, Suleiman Souhlal wrote:

>>>

>>> This function returns the gfp flags that are always applied to
>>> allocations of a kmem_cache.

>>>

>>> Signed-off-by: Suleiman Souhlal<suleiman@google.com>

>>> ---

>>> include/linux/slab_def.h | 6 ++++++

>>> include/linux/slob_def.h | 6 ++++++

>>> include/linux/slub_def.h | 6 ++++++

>>> 3 files changed, 18 insertions(+), 0 deletions(-)

>>>

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

>>> index fbd1117..25f9a6a 100644

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

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

>>> @@ -159,6 +159,12 @@ found:

>>> return __kmalloc(size, flags);

>>> }

>>>

>>> +static inline gfp_t

>>> +kmem_cache_gfp_flags(struct kmem_cache *cachep)

>>> +{

>>> + return cachep->gfpflags;

>>> +}

>>> +

>>> #ifdef CONFIG_NUMA

>>> extern void *__kmalloc_node(size_t size, gfp_t flags, int node);

>>> extern void *kmem_cache_alloc_node(struct kmem_cache *, gfp_t flags, int
>>> node);

>>> diff --git a/include/linux/slob_def.h b/include/linux/slob_def.h

>>> index 0ec00b3..3fa527d 100644

>>> --- a/include/linux/slob_def.h

>>> +++ b/include/linux/slob_def.h

>>> @@ -34,4 +34,10 @@ static __always_inline void *__kmalloc(size_t size,
>>> gfp_t flags)

>>> return kmalloc(size, flags);

>>> }

>>>

>>> +static inline gfp_t

>>> +kmem_cache_gfp_flags(struct kmem_cache *cachep)

>>> +{

```

>>> +     return 0;
>>> +}
>>> +
>>> #endif /* __LINUX_SLOB_DEF_H */
>>> diff --git a/include/linux/slub_def.h b/include/linux/slub_def.h
>>> index a32bcfd..5911d81 100644
>>> --- a/include/linux/slub_def.h
>>> +++ b/include/linux/slub_def.h
>>> @@ -313,4 +313,10 @@ static __always_inline void *kmalloc_node(size_t
>>> size, gfp_t flags, int node)
>>> }
>>> #endif
>>>
>>> +static inline gfp_t
>>> +kmem_cache_gfp_flags(struct kmem_cache *cachep)
>>> +{
>>> +     return cachep->allocflags;
>>> +}
>>> +
>>>
>>>
>> Why is this needed? Can't the caller just call
>> mem_cgroup_get_kmem_cache(cachep, flags | cachep->allocflags) ?
>
> Because slub calls this cachep->allocflags, while slab calls it
> cachep->gfpflags.
>

```

So what?

That function is only called from slab.c anyway. Let slab call it
 mem_cgroup_get_kmem_cache(cachep, flags | cachep->allocflags);
 and slub
 mem_cgroup_get_kmem_cache(cachep, flags | cachep->gfpflags);

Subject: Re: [PATCH v2 06/13] slab: Add kmem_cache_gfp_flags() helper function.
 Posted by [Suleiman Souhail](#) on Wed, 14 Mar 2012 22:08:13 GMT
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On Wed, Mar 14, 2012 at 4:48 AM, Glauber Costa <glommer@parallels.com> wrote:
 > So what?
 > That function is only called from slab.c anyway. Let slab call it
 > mem_cgroup_get_kmem_cache(cachep, flags | cachep->allocflags);
 > and slub
 > mem_cgroup_get_kmem_cache(cachep, flags | cachep->gfpflags);

Ok, I will do that.
 I felt like it was better to do it in a single place, instead of doing

it at all the callers.

-- Suleiman
