Subject: Re: [PATCH 2/4] Add a \_\_\_GFP\_SLABMEMCG flag Posted by James Bottomley on Tue, 12 Jun 2012 14:36:27 GMT View Forum Message <> Reply to Message

On Mon, 2012-06-11 at 09:24 -0500, Christoph Lameter wrote: > On Sat, 9 Jun 2012, James Bottomley wrote: > > > On Fri, 2012-06-08 at 14:31 -0500, Christoph Lameter wrote: >>> On Fri, 8 Jun 2012, Glauber Costa wrote: >>> >>>> \*/ >>>> #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)) >>> > > Please make this conditional on CONFIG MEMCG or so. The bit can be useful >>> in particular on 32 bit architectures. > > >> I really don't think that's at all a good idea. It's asking for trouble > > when we don't spot we have a flag overlap. It also means that we're > > trusting the reuser to know that their use case can never clash with > > CONFIG MEMGC and I can't think of any configuration where this is > > possible currently. > > Flag overlap can be avoided using the same method as we have done with the > page flags (which uses an enum). There are other uses of N bits after > GFP BITS SHIFT. On first look this looks like its 4 right now so we cannot > go above 28 on 32 bit platforms. It would also be useful to have that > limit in there somehow so that someone modifying the GFP BITS sees the > danger. But if there's no possible configuration that can use a flag and depends on !CONFIG\_MEMGC then why bother? The main problem is that unless you get two configurations which exactly cancel each other and require a GFP flag, you end up eventually with unbuildable configurations that need >32 flags. > > I think making the flag define of \_\_GFP\_SLABMEMCG conditional might be a

> > reasonable idea so we get a compile failure if anyone tries to use it

> > when !CONFIG\_MEMCG.

>

> Ok that is another reason to do so.

A reason to make it conditional, not a reason to go to the trouble of making the flags reusable.

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