Subject: Re: [PATCH 02/10] consider a memcg parameter in kmem_create_cache
Posted by Kirill A. Shutsemov on Wed, 25 Jul 2012 18:10:13 GMT
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On Wed, Jul 25, 2012 at 06:38:13PM +0400, Glauber Costa wrote:

...

> @@ -337,6 +341,12 @@ extern void *__kmalloc_track_caller(size_t, gfp_t, unsigned long);
> __kmalloc(size, flags)
> #endif /* DEBUG_SLAB */
>
> +#ifdef CONFIG_MEMCG_KMEM
> +#define MAX_KMEM_CACHE_TYPES 400
> +#else
> +#define MAX_KMEM_CACHE_TYPES 0
> +#endif /* CONFIG_MEMCG_KMEM */
> +
> #ifdef CONFIG_NUMA
> /*
> * kmalloc_node_track_caller is a special version of kmalloc_node that

...

> @@ -527,6 +532,24 @@ static inline bool memcg_kmem_enabled(struct mem_cgroup
*memcg)
> memcg->kmem_accounted;
> }
>
> +struct ida cache_types;
> +
> +void memcg_register_cache(struct mem_cgroup *memcg, struct kmem_cache *cachep)
> +{
> + int id = -1;
> +
> + if (!memcg)
> + id = ida_simple_get(&cache_types, 0, MAX_KMEM_CACHE_TYPES,
> + GFP_KERNEL);

MAX_KMEM_CACHE_TYPES is 0 if CONFIG_MEMCG_KMEM undefined.
If 'end' parameter of ida_simple_get() is 0 it will use default max value
which is 0x80000000.
I guess you want MAX_KMEM_CACHE_TYPES to be 1 for !CONFIG_MEMCG_KMEM.

--
 Kirill A. Shutemov