
Subject: Re: [PATCH 2/5] Generic notifiers for SLUB events
Posted by [Pavel Emelianov](#) on Mon, 01 Oct 2007 13:07:44 GMT
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Balbir Singh wrote:

> Pavel Emelianov wrote:

>> If the user wants more than one listener for SLUB event,
>> it can register them all as notifier_block-s so all of
>> them will be notified.

>>

>> This costs us about 10% of performance loss, in comparison
>> with static linking.

>>

>> The selected method of notification is srcu notifier blocks.

>> This is selected because the "call" path, i.e. when the
>> notification is done, is lockless and at the same time the
>> handlers can sleep. Neither regular nor atomic notifiers
>> provide such facilities.

>>

>> Signed-off-by: Pavel Emelianov <xemul@openvz.org>

>>

>> ---

>>

>> diff --git a/init/Kconfig b/init/Kconfig

>> index 684ccfb..e9acc29 100644

>> --- a/init/Kconfig

>> +++ b/init/Kconfig

>> @@ -593,6 +599,16 @@ config SLUB_DEBUG

>> SLUB sysfs support. /sys/slab will not exist and there will be
>> no support for cache validation etc.

>>

>> +config SLUB_NOTIFY

>> + default y

>

> Should the default be on? Shouldn't it depend on KMEM?

Well... I think that is should be N by default and has
nothing to do with the KMEM :) Thanks for noticing.

>> + bool "Enable SLUB events generic notification"

>> + depends on SLUB

>> + help

>> + When Y, this option enables generic notifications of some major
>> + slub events. However, if you do know that there will be the
>> + only listener for them, you may say N here, so that callbacks
>> + will be called directly.

>> +

>> -

```
>> -
>> +#ifdef CONFIG_SLUB_NOTIFY
>> + srcu_init_notifier_head(&slub_nb);
>
> Can we get rid of the #ifdef CONFIG_SLUB_NOTIFY?
```

I don't think this is really useful in the __init code :)

```
>> +#endif
>> printk(KERN_INFO "SLUB: Genslabs=%d, HWalign=%d, Order=%d-%d, MinObjects=%d,"
>> " CPUs=%d, Nodes=%d\n",
>> caches, cache_line_size(),
>>
>
>
```
