
Subject: Re: [PATCH 2/5] Generic notifiers for SLUB events
Posted by [Balbir Singh](#) on Mon, 01 Oct 2007 13:05:07 GMT
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Pavel Emelyanov 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 Emelyanov <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?

> + 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`?

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

--

Warm Regards,
Balbir Singh
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