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Subject: [PATCH v5 02/18] move print\_slabinfo\_header to slab\_common.c

Posted by [Glauber Costa](#) on Fri, 19 Oct 2012 14:20:26 GMT

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The header format is highly similar between slab and slub. The main difference lays in the fact that slab may optionally have statistics added here in case of CONFIG\_SLAB\_DEBUG, while the slub will stick them somewhere else.

By making sure that information conditionally lives inside a globally-visible CONFIG\_DEBUG\_SLAB switch, we can move the header printing to a common location.

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```
mm/slab.c      | 24 -----
mm/slab.h      |  2 --
mm/slab_common.c | 23 ++++++
mm/slub.c      | 10 -----
4 files changed, 23 insertions(+), 36 deletions(-)
```

diff --git a/mm/slab.c b/mm/slab.c

index e35970a..864a9e9 100644

--- a/mm/slab.c

+++ b/mm/slab.c

@ @ -4262,30 +4262,6 @ @ out:

}

```
#ifdef CONFIG_SLABINFO
```

```
-
```

```
-void print_slabinfo_header(struct seq_file *m)
```

```
-{
```

```
- /*
```

```
-  * Output format version, so at least we can change it
```

```
-  * without _too_ many complaints.
```

```
- */
```

```
-#if STATS
```

```
- seq_puts(m, "slabinfo - version: 2.1 (statistics)\n");
```

```
-#else
```

```
- seq_puts(m, "slabinfo - version: 2.1\n");
```

```
-#endif
```

```
- seq_puts(m, "# name          <active_objs> <num_objs> <objsize> "
```

```
- "<objperslab> <pagesperslab>");
```

```
- seq_puts(m, " : tunables <limit> <batchcount> <sharedfactor>");
```

```
- seq_puts(m, " : slabdata <active_slabs> <num_slabs> <sharedavail>");
```

```

-#if STATS
- seq_puts(m, " : globalstat <listallocs> <maxobjs> <grown> <reaped> "
- "<error> <maxfreeable> <nodeallocs> <remotefrees> <alienoverflow>");
- seq_puts(m, " : cpustat <allochit> <allocmiss> <freehit> <freemiss>");
-#endif
- seq_putc(m, '\n');
-}
-
int slabinfo_show(struct seq_file *m, void *p)
{
    struct kmem_cache *cachep = list_entry(p, struct kmem_cache, list);
diff --git a/mm/slab.h b/mm/slab.h
index 4156d21..e9ba23f 100644
--- a/mm/slab.h
+++ b/mm/slab.h
@@ -74,8 +74,6 @@ int __kmem_cache_shutdown(struct kmem_cache *);

struct seq_file;
struct file;
-void print_slabinfo_header(struct seq_file *m);
-
int slabinfo_show(struct seq_file *m, void *p);

ssize_t slabinfo_write(struct file *file, const char __user *buffer,
diff --git a/mm/slab_common.c b/mm/slab_common.c
index 11ecab4..bb4d751 100644
--- a/mm/slab_common.c
+++ b/mm/slab_common.c
@@ -200,6 +200,29 @@ int slab_is_available(void)
}

#ifdef CONFIG_SLABINFO
+static void print_slabinfo_header(struct seq_file *m)
+{
+ /*
+  * Output format version, so at least we can change it
+  * without _too_ many complaints.
+  */
+ #ifdef CONFIG_DEBUG_SLAB
+ seq_puts(m, "slabinfo - version: 2.1 (statistics)\n");
+ #else
+ seq_puts(m, "slabinfo - version: 2.1\n");
+ #endif
+ seq_puts(m, "# name          <active_objs> <num_objs> <objsize> "
+ "<objperslab> <pagesperslab>");
+ seq_puts(m, " : tunables <limit> <batchcount> <sharedfactor>");
+ seq_puts(m, " : slabdata <active_slabs> <num_slabs> <sharedavail>");
+ #ifdef CONFIG_DEBUG_SLAB

```

```

+ seq_puts(m, " : globalstat <listallocs> <maxobjs> <grown> <reaped> "
+ " <error> <maxfreeable> <nodeallocs> <remotefrees> <alienoverflow>");
+ seq_puts(m, " : cpustat <allochit> <allocmiss> <freehit> <freemiss>");
+ #endif
+ seq_putc(m, '\n');
+ }
+
+ static void *s_start(struct seq_file *m, loff_t *pos)
+ {
+     loff_t n = *pos;
diff --git a/mm/slub.c b/mm/slub.c
index 55304ed..91e1f3b 100644
--- a/mm/slub.c
+++ b/mm/slub.c
@@ -5394,16 +5394,6 @@ __initcall(slab_sysfs_init);
 * The /proc/slabinf ABI
 */
#ifdef CONFIG_SLABINFO
-void print_slabinf_header(struct seq_file *m)
-{
-    seq_puts(m, "slabinf - version: 2.1\n");
-    seq_puts(m, "# name          <active_objs> <num_objs> <object_size> "
-    "<objperslab> <pagesperslab>");
-    seq_puts(m, " : tunables <limit> <batchcount> <sharedfactor>");
-    seq_puts(m, " : slabdata <active_slabs> <num_slabs> <sharedavail>");
-    seq_putc(m, '\n');
-}
-
int slabinfo_show(struct seq_file *m, void *p)
{
    unsigned long nr_partials = 0;
--
1.7.11.7

```

---