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

View Forum Message <> Reply to Message

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.

Signed-off-by: Glauber Costa <glommer@parallels.com>
Acked-by: Christoph Lameter <cl@linux.com>
CC: Pekka Enberg <penberg@cs.helsinki.fi>
CC: David Rientjes <rientjes@google.com>
---
 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/slabinfo ABI
  */
 #ifdef CONFIG_SLABINFO
-void print_slabinfo_header(struct seq_file *m)
-{
- seq_puts(m, "slabinfo - 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
```