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Subject: [PATCH 2/3] Introduce the res\_counter\_populate() function

Posted by [Pavel Emelianov](#) on Wed, 03 Oct 2007 10:57:54 GMT

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This one is responsible for initializing the RES\_CFT\_MAX files properly and register them inside the container.

The caller must provide the cgroup, the cgroup\_subsys, the RES\_CFT\_MAX \* sizeof(cftype) chunk of uninitialized memory and the read and write callbacks.

In the future, if we add more res\_counter files, change their names or anything else, no caller will be affected.

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

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```
diff --git a/include/linux/res_counter.h b/include/linux/res_counter.h
```

```
index 61363ce..8ee8316 100644
```

```
--- a/include/linux/res_counter.h
```

```
+++ b/include/linux/res_counter.h
```

```
@@ -58,6 +58,9 @@ ssize_t res_counter_write(struct res_cou  
    const char __user *buf, size_t nbytes, loff_t *pos,  
    int (*write_strategy)(char *buf, unsigned long long *val));
```

```
+int res_counter_populate(struct cgroup_subsys *ss, struct cgroup *cont,  
+ struct cftype files[], cft_read read_fn, cft_write write_fn);
```

```
+
```

```
/*
```

```
 * the field descriptors. one for each member of res_counter
```

```
*/
```

```
@@ -66,6 +69,8 @@ enum {
```

```
    RES_USAGE,
```

```
    RES_LIMIT,
```

```
    RES_FAILCNT,
```

```
+
```

```
+ RES_CFT_MAX,
```

```
};
```

```
/*
```

```
diff --git a/kernel/res_counter.c b/kernel/res_counter.c
```

```
index d7f43cd..018eb2b 100644
```

```
--- a/kernel/res_counter.c
```

```
+++ b/kernel/res_counter.c
```

```
@@ -10,9 +10,34 @@
```

```
    #include <linux/types.h>
```

```
    #include <linux/parser.h>
```

```

#include <linux/fs.h>
+#include <linux/cgroup.h>
#include <linux/res_counter.h>
#include <linux/uaccess.h>

+int res_counter_populate(struct cgroup_subsys *ss, struct cgroup *cont,
+ struct cftype files[], cft_read read_fn, cft_write write_fn)
+{
+ /*
+  * to be on the safe side
+  */
+ memset(files, 0, RES_CFT_MAX * sizeof(struct cftype));
+
+ strcpy(files[RES_USAGE].name, "usage_in_bytes");
+ files[RES_USAGE].private = RES_USAGE;
+ files[RES_USAGE].read = read_fn;
+
+ strcpy(files[RES_LIMIT].name, "limit_in_bytes");
+ files[RES_LIMIT].private = RES_LIMIT;
+ files[RES_LIMIT].read = read_fn;
+ files[RES_LIMIT].write = write_fn;
+
+ strcpy(files[RES_FAILCNT].name, "failcnt");
+ files[RES_FAILCNT].private = RES_FAILCNT;
+ files[RES_FAILCNT].read = read_fn;
+
+ return cgroup_add_files(cont, ss, files, RES_CFT_MAX);
+}
+
void res_counter_init(struct res_counter *counter)
{
    spin_lock_init(&counter->lock);

```

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Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

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