
Subject: [PATCH 1/6][NET-2.6.24] Introduce the seq_open_private()

Posted by [Pavel Emelianov](#) on Tue, 09 Oct 2007 15:52:58 GMT

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This function allocates the zeroed chunk of memory and call seq_open(). The __seq_open_private() helper returns the allocated memory to make it possible for the caller to initialize it.

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```
diff --git a/fs/seq_file.c b/fs/seq_file.c
```

```
index bbb19be..ca71c11 100644
```

```
--- a/fs/seq_file.c
```

```
+++ b/fs/seq_file.c
```

```
@@ -429,6 +429,39 @@ int seq_release_private(struct inode *in
```

```
}
```

```
EXPORT_SYMBOL(seq_release_private);
```

```
+void *__seq_open_private(struct file *f, const struct seq_operations *ops,
```

```
+ int psize)
```

```
{
```

```
+ int rc;
```

```
+ void *private;
```

```
+ struct seq_file *seq;
```

```
+
```

```
+ private = kzalloc(psize, GFP_KERNEL);
```

```
+ if (private == NULL)
```

```
+ goto out;
```

```
+
```

```
+ rc = seq_open(f, ops);
```

```
+ if (rc < 0)
```

```
+ goto out_free;
```

```
+
```

```
+ seq = f->private_data;
```

```
+ seq->private = private;
```

```
+ return private;
```

```
+
```

```
+out_free:
```

```
+ kfree(private);
```

```
+out:
```

```
+ return NULL;
```

```
+
```

```
+EXPORT_SYMBOL(__seq_open_private);
```

```
+
```

```
+int seq_open_private(struct file *filp, const struct seq_operations *ops,
```

```

+ int psize)
+{
+ return __seq_open_private(filp, ops, psize) ? 0 : -ENOMEM;
+}
+EXPORT_SYMBOL(seq_open_private);
+
+ int seq_putc(struct seq_file *m, char c)
+ {
+   if (m->count < m->size) {
diff --git a/include/linux/seq_file.h b/include/linux/seq_file.h
index 83783ab..8bf1e05 100644
--- a/include/linux/seq_file.h
+++ b/include/linux/seq_file.h
@@ -46,6 +46,8 @@ int seq_path(struct seq_file *, struct v

int single_open(struct file *, int (*)(struct seq_file *, void *), void *);
int single_release(struct inode *, struct file *);
+void *__seq_open_private(struct file *, const struct seq_operations *, int);
+int seq_open_private(struct file *, const struct seq_operations *, int);
int seq_release_private(struct inode *, struct file *);

#define SEQ_START_TOKEN ((void *)1)

```
