

# Re: [PATCH 2.6.11-rc3-mm2] connector: Add a fork connector

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-02/5159.html>

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**Date:** 02/23/05

To: Andrew Morton <[akpm@osdl.org](mailto:akpm@osdl.org)>

Date: Wed, 23 Feb 2005 09:52:32 +0100

Hello,

This patch replaces the relay\_fork module and it implements a fork connector in the kernel/fork.c:do\_fork() routine. The connector sends information about parent PID and child PID over a netlink interface. It allows to several user space applications to be informed when a fork occurs in the kernel. The main drawback is that even if nobody listens, message is send. I don't know how to avoid that.

It is used by ELSA to manage group of processes in user space.

ChangeLog:

- Add a "depends on CONNECTOR=y" in the Kconfig
- Remove the macro #if defined(CONFIG\_CONNECTOR)
- cn\_netlink\_send() sends messages to the correct group which is CN\_IDX\_FORK

Thanks to Evgeniy and to everyone for the comments,  
Guillaume

Signed-off-by: Guillaume Thouvenin <[guillaume.thouvenin@bull.net](mailto:guillaume.thouvenin@bull.net)>

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```
drivers/connector/Kconfig |      8 ++++++++
include/linux/connector.h |       2 ++
kernel/fork.c             |     41 ++++++++++++++++++++++++++++++++++++++
```

3 files changed, 51 insertions(+)

```
diff -uprN -X dontdiff linux-2.6.11-rc3-mm2/drivers/connector/Kconfig linux-2.6.11-rc3-mm2-cnfork
```

```
--- linux-2.6.11-rc3-mm2/drivers/connector/Kconfig      2005-02-11 11:00:16.000000000 +0100
```

```
+++ linux-2.6.11-rc3-mm2-cnfork/drivers/connector/Kconfig      2005-02-21 09:52:22.000000000 +0100
```

```
@@ -10,4 +10,12 @@ config CONNECTOR
```

```
Connector support can also be built as a module. If so, the module
will be called cn.ko.
```

```
+config FORK_CONNECTOR
```

```
+    bool "Enable fork connector"
```

```
+    depends on CONNECTOR=y
```

```
+    ---help---
```

## Linux-Kernel: Re: [PATCH 2.6.11-rc3-mm2] connector: Add a fork connector

```
+ It adds a connector in kernel/fork.c:do_fork() function. When a fork
+ occurs, netlink is used to transfer information about the parent and
+ its child. This information can be used by a user space application.
```

```
+ 
```

```
endmenu
```

```
diff -uprN -X dontdiff linux-2.6.11-rc3-mm2/include/linux/connector.h linux-2.6.11-rc3-mm2-cnfork
```

```
--- linux-2.6.11-rc3-mm2/include/linux/connector.h      2005-02-11 11:00:18.000000000 +0100
```

```
+++ linux-2.6.11-rc3-mm2-cnfork/include/linux/connector.h      2005-02-16 15:07:46.000000000 +0100
```

```
@@ -28,6 +28,8 @@
```

```
#define CN_VAL_KOBJECT_UEVENT      0x0000
#define CN_IDX_SUPERIO            0xaabb /* SuperIO subsystem */
#define CN_VAL_SUPERIO            0xccdd
+#define CN_IDX_FORK               0xfedd /* fork events */
+#define CN_VAL_FORK               0xbeef
```

```
#define CONNECTOR_M
```