

[PATCH] s390 (8/8): docu.

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-08/7893.html>

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Date: Fri, 29 Aug 2003 19:11:20 +0200
To: linux-kernel@vger.kernel.org, torvalds@transmeta.com

diffstat:

```
Documentation/s390/CommonIO | 46 ++-----  
Documentation/s390/driver-model.txt | 10 +++-----  
2 files changed, 8 insertions(+), 48 deletions(-)
```

```
diff -urN linux-2.6/Documentation/s390/CommonIO linux-2.6-s390/Documentation/s390/CommonIO  
---- linux-2.6/Documentation/s390/CommonIO Sat Aug 23 02:00:52 2003  
+++ linux-2.6-s390/Documentation/s390/CommonIO Fri Aug 29 18:55:13 2003  
@@ -45,25 +45,6 @@  
/proc entries  
-----
```

-* /proc/subchannels

-

- This entry shows information on a per-subchannel basis.

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- The data is ordered in the following way:

-

- - device number

- - subchannel number

- - device type/model (if applicable; if not, this is empty) and control unit

- type/model

- - whether the device is in use (i. e. a device driver has requested ownership
- and registered an interrupt handler)

- - path installed mask (PIM), as reflected by last store subchannel

- - path available mask (PAM), as reflected by last store subchannel

- - path operational mask (POM), as reflected by last store subchannel

- - the channel path IDs (CHPIDs)

-

- All fields are separated by spaces, the chpids are in blocks of four chpids.

-

* /proc/cio_ignore

Lists the ranges of device numbers which are ignored by common I/O.

```
@@ -116,27 +97,6 @@
```

/proc/s390dbf/cio_*/level a number between 0 and 6; see the documentation on
the S/390 debug feature (Documentation/s390/s390dbf.txt) for details.

```
–* /proc/irq_count
–
– This entry counts how many times s390_process_IRQ has been called for each
– CPU. This info is in /proc/interrupts on other architectures.
–
–* /proc/chpids
–
– This entry serves a dual purpose:
–
– – show which chpids are currently known to Linux and their status (online,
– logically offline),
–
– – toggling known chpids logically online/offline.
–
– To toggle a known chpid logically offline, do an
– echo off <chpid> > /proc/chpids
– <chpid> is interpreted as hex, even if you omit the '0x'.
– The chpid will be treated by Linux as if it were not online, which can mean
– some devices will become unavailable.
–
– You can toggle a logically offline chpid online again by
– echo on <chpid> > /proc/chpids
– If devices became unavailable by toggling the chpid logically offline, they
– will become available again after you toggle the chpid online again.
+* For some of the information present in the /proc filesystem in 2.4 (namely,
+ /proc/subchannels and /proc/chpids), see driver–model.txt.
+ Information formerly in /proc/irq_count is now in /proc/interrupts.
diff –urN linux–2.6/Documentation/s390/driver–model.txt
linux–2.6–s390/Documentation/s390/driver–model.txt
--- linux–2.6/Documentation/s390/driver–model.txt Sat Aug 23 01:50:28 2003
+++ linux–2.6–s390/Documentation/s390/driver–model.txt Fri Aug 29 18:55:13 2003
@@ –14,15 +14,15 @@
– sys
– legacy
– css0/
– 0:0000/0:0815/
– 0:0001/0:4711/
– 0:0002/
+ – 0.0.0000/0.0.0815/
+ – 0.0.0001/0.0.4711/
+ – 0.0.0002/
…
```

In this example, device 0815 is accessed via subchannel 0, device 4711 via subchannel 1, and subchannel 2 is a non–I/O subchannel.

```
–You should address a ccw device via its bus id (e.g. 0:4711); the device can
+You should address a ccw device via its bus id (e.g. 0.0.4711); the device can
be found under bus/ccw/devices/.
```

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All ccw devices export some data via sysfs additional to the standard 'name'
@@ -186,7 +186,7 @@

Channel paths show up, like subchannels, under the channel subsystem root (css0)
-and are called 'chp<chpid>'. They have no driver and do not belong to any bus.
+and are called 'chp0.<chpid>'. They have no driver and do not belong to any bus.

status - Can be 'online', 'logically offline' or 'n/a'.

Piping 'on' or 'off' sets the chpid logically online/offline.

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