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Subject: [PATCH 45/59] sysctl: C99 convert ctl\_tables in drivers/parport/procfs.c  
Posted by [ebiederm](#) on Tue, 16 Jan 2007 16:39:50 GMT  
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From: Eric W. Biederman <[ebiederm@xmission.com](mailto:ebiederm@xmission.com)> - unquoted

Signed-off-by: Eric W. Biederman <[ebiederm@xmission.com](mailto:ebiederm@xmission.com)>

---  
drivers/parport/procfs.c | 264 ++++++-----  
1 files changed, 189 insertions(+), 75 deletions(-)

diff --git a/drivers/parport/procfs.c b/drivers/parport/procfs.c

index 2e744a2..5337789 100644

--- a/drivers/parport/procfs.c

+++ b/drivers/parport/procfs.c

@@ -233,12 +233,12 @@ static int do\_hardware\_modes (ctl\_table \*table, int write,  
return copy\_to\_user(result, buffer, len) ? -EFAULT : 0;  
}

-#define PARPORT\_PORT\_DIR(child) { 0, NULL, NULL, 0, 0555, child }

-#define PARPORT\_PARPORT\_DIR(child) { DEV\_PARPORT, "parport", \  
- NULL, 0, 0555, child }

-#define PARPORT\_DEV\_DIR(child) { CTL\_DEV, "dev", NULL, 0, 0555, child }

-#define PARPORT\_DEVICES\_ROOT\_DIR { DEV\_PARPORT\_DEVICES, "devices", \  
- NULL, 0, 0555, NULL }

+#define PARPORT\_PORT\_DIR(CHILD) { .ctl\_name = 0, .procname = NULL, .mode = 0555,  
.child = CHILD }

+#define PARPORT\_PARPORT\_DIR(CHILD) { .ctl\_name = DEV\_PARPORT, .procname =  
"parport", \  
+ .mode = 0555, .child = CHILD }

+#define PARPORT\_DEV\_DIR(CHILD) { .ctl\_name = CTL\_DEV, .procname = "dev", .mode =  
0555, .child = CHILD }

+#define PARPORT\_DEVICES\_ROOT\_DIR { .ctl\_name = DEV\_PARPORT\_DEVICES,  
.procname = "devices", \  
+ .mode = 0555, .child = NULL }

static const unsigned long parport\_min\_timeslice\_value =  
PARPORT\_MIN\_TIMESLICE\_VALUE;

@@ -263,50 +263,118 @@ struct parport\_sysctl\_table {  
};

static const struct parport\_sysctl\_table parport\_sysctl\_template = {

- NULL,

+ .sysctl\_header = NULL,

{

- { DEV\_PARPORT\_SPINTIME, "spintime",

- NULL, sizeof(int), 0644, NULL,

- &proc\_dointvec\_minmax, NULL, NULL,

```

- (void*) &parport_min_spintime_value,
- (void*) &parport_max_spintime_value },
- { DEV_PARPORT_BASE_ADDR, "base-addr",
- NULL, 0, 0444, NULL,
- &do_hardware_base_addr },
- { DEV_PARPORT_IRQ, "irq",
- NULL, 0, 0444, NULL,
- &do_hardware_irq },
- { DEV_PARPORT_DMA, "dma",
- NULL, 0, 0444, NULL,
- &do_hardware_dma },
- { DEV_PARPORT_MODES, "modes",
- NULL, 0, 0444, NULL,
- &do_hardware_modes },
+ {
+ .ctl_name = DEV_PARPORT_SPINTIME,
+ .procname = "spintime",
+ .data = NULL,
+ .maxlen = sizeof(int),
+ .mode = 0644,
+ .proc_handler = &proc_dointvec_minmax,
+ .extra1 = (void*) &parport_min_spintime_value,
+ .extra2 = (void*) &parport_max_spintime_value
+ },
+ {
+ .ctl_name = DEV_PARPORT_BASE_ADDR,
+ .procname = "base-addr",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_hardware_base_addr
+ },
+ {
+ .ctl_name = DEV_PARPORT_IRQ,
+ .procname = "irq",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_hardware_irq
+ },
+ {
+ .ctl_name = DEV_PARPORT_DMA,
+ .procname = "dma",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_hardware_dma
+ },

```

```

+ {
+ .ctl_name = DEV_PARPORT_MODES,
+ .procname = "modes",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_hardware_modes
+ },
    PARPORT_DEVICES_ROOT_DIR,
#ifdef CONFIG_PARPORT_1284
- { DEV_PARPORT_AUTOPROBE, "autoprobe",
-   NULL, 0, 0444, NULL,
-   &do_autoprobe },
- { DEV_PARPORT_AUTOPROBE + 1, "autoprobe0",
-   NULL, 0, 0444, NULL,
-   &do_autoprobe },
- { DEV_PARPORT_AUTOPROBE + 2, "autoprobe1",
-   NULL, 0, 0444, NULL,
-   &do_autoprobe },
- { DEV_PARPORT_AUTOPROBE + 3, "autoprobe2",
-   NULL, 0, 0444, NULL,
-   &do_autoprobe },
- { DEV_PARPORT_AUTOPROBE + 4, "autoprobe3",
-   NULL, 0, 0444, NULL,
-   &do_autoprobe },
+ {
+ .ctl_name = DEV_PARPORT_AUTOPROBE,
+ .procname = "autoprobe",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_autoprobe
+ },
+ {
+ .ctl_name = DEV_PARPORT_AUTOPROBE + 1,
+ .procname = "autoprobe0",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_autoprobe
+ },
+ {
+ .ctl_name = DEV_PARPORT_AUTOPROBE + 2,
+ .procname = "autoprobe1",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_autoprobe

```

```

+ },
+ {
+ .ctl_name = DEV_PARPORT_AUTOPROBE + 3,
+ .procname = "autoprobe2",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_autoprobe
+ },
+ {
+ .ctl_name = DEV_PARPORT_AUTOPROBE + 4,
+ .procname = "autoprobe3",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_autoprobe
+ },
+ #endif /* IEEE 1284 support */
- {0}
+ {}
+ },
- { {DEV_PARPORT_DEVICES_ACTIVE, "active", NULL, 0, 0444, NULL,
- &do_active_device }, {0}},
- { PARPORT_PORT_DIR(NULL), {0}},
- { PARPORT_PARPORT_DIR(NULL), {0}},
- { PARPORT_DEV_DIR(NULL), {0}}
+ {
+ {
+ .ctl_name = DEV_PARPORT_DEVICES_ACTIVE,
+ .procname = "active",
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0444,
+ .proc_handler = &do_active_device
+ },
+ {}
+ },
+ {
+ PARPORT_PORT_DIR(NULL),
+ {}
+ },
+ {
+ PARPORT_PARPORT_DIR(NULL),
+ {}
+ },
+ {
+ PARPORT_DEV_DIR(NULL),
+ {}

```

```

+ }
};

struct parport_device_sysctl_table
@@ -322,19 +390,46 @@ struct parport_device_sysctl_table

static const struct parport_device_sysctl_table
parport_device_sysctl_template = {
- NULL,
+ .sysctl_header = NULL,
+ {
+ {
+ .ctl_name = DEV_PARPORT_DEVICE_TIMESLICE,
+ .procname = "timeslice",
+ .data = NULL,
+ .maxlen = sizeof(int),
+ .mode = 0644,
+ .proc_handler = &proc_doulongvec_ms_jiffies_minmax,
+ .extra1 = (void*) &parport_min_timeslice_value,
+ .extra2 = (void*) &parport_max_timeslice_value
+ },
+ },
+ {
+ {
+ .ctl_name = 0,
+ .procname = NULL,
+ .data = NULL,
+ .maxlen = 0,
+ .mode = 0555,
+ .child = NULL
+ },
+ {}
+ },
+ {
- { DEV_PARPORT_DEVICE_TIMESLICE, "timeslice",
- NULL, sizeof(int), 0644, NULL,
- &proc_doulongvec_ms_jiffies_minmax, NULL, NULL,
- (void*) &parport_min_timeslice_value,
- (void*) &parport_max_timeslice_value },
+ PARPORT_DEVICES_ROOT_DIR,
+ {}
+ },
+ {
+ PARPORT_PORT_DIR(NULL),
+ {}
+ },
- { {0, NULL, NULL, 0, 0555, NULL}, {0}},
- { PARPORT_DEVICES_ROOT_DIR, {0}},

```

```

- { PARPORT_PORT_DIR(NULL), {0}},
- { PARPORT_PARPORT_DIR(NULL), {0}},
- { PARPORT_DEV_DIR(NULL), {0}}
+ {
+ PARPORT_PARPORT_DIR(NULL),
+ {}
+ },
+ {
+ PARPORT_DEV_DIR(NULL),
+ {}
+ }
};

```

```

struct parport_default_sysctl_table
@@ -351,28 +446,47 @@ extern int parport_default_spintime;

```

```

static struct parport_default_sysctl_table
parport_default_sysctl_table = {
- NULL,
+ .sysctl_header = NULL,
+ {
+ {
+ .ctl_name = DEV_PARPORT_DEFAULT_TIMESLICE,
+ .procname = "timeslice",
+ .data = &parport_default_timeslice,
+ .maxlen = sizeof(parport_default_timeslice),
+ .mode = 0644,
+ .proc_handler = &proc_doulongvec_ms_jiffies_minmax,
+ .extra1 = (void*) &parport_min_timeslice_value,
+ .extra2 = (void*) &parport_max_timeslice_value
+ },
+ {
+ .ctl_name = DEV_PARPORT_DEFAULT_SPINTIME,
+ .procname = "spintime",
+ .data = &parport_default_spintime,
+ .maxlen = sizeof(parport_default_spintime),
+ .mode = 0644,
+ .proc_handler = &proc_dointvec_minmax,
+ .extra1 = (void*) &parport_min_spintime_value,
+ .extra2 = (void*) &parport_max_spintime_value
+ },
+ {}
+ },
+ {
- { DEV_PARPORT_DEFAULT_TIMESLICE, "timeslice",
- &parport_default_timeslice,
- sizeof(parport_default_timeslice), 0644, NULL,
- &proc_doulongvec_ms_jiffies_minmax, NULL, NULL,

```

```

- (void*) &parport_min_timeslice_value,
- (void*) &parport_max_timeslice_value },
- { DEV_PARPORT_DEFAULT_SPINTIME, "spintime",
- &parport_default_spintime,
- sizeof(parport_default_spintime), 0644, NULL,
- &proc_dointvec_minmax, NULL, NULL,
- (void*) &parport_min_spintime_value,
- (void*) &parport_max_spintime_value },
- {0}
+ {
+ .ctl_name = DEV_PARPORT_DEFAULT,
+ .procname = "default",
+ .mode = 0555,
+ .child = parport_default_sysctl_table.vars
+ },
+ {}
+ },
- { { DEV_PARPORT_DEFAULT, "default", NULL, 0, 0555,
- parport_default_sysctl_table.vars }, {0}},
+ {
- PARPORT_PARPORT_DIR(parport_default_sysctl_table.default_dir),
- {0}},
- { PARPORT_DEV_DIR(parport_default_sysctl_table.parport_dir), {0}}
+ PARPORT_PARPORT_DIR(parport_default_sysctl_table.default_dir),
+ {}
+ },
+ {
+ PARPORT_DEV_DIR(parport_default_sysctl_table.parport_dir),
+ {}
+ }
+ };

```

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1.4.4.1.g278f

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Containers mailing list  
Containers@lists.osdl.org  
<https://lists.osdl.org/mailman/listinfo/containers>

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