

# [PATCH 2.6] Update to module\_params() in 3c59x.c

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-12/6245.html>

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**Date:** 12/30/04

Date: Thu, 30 Dec 2004 15:40:20 +0100  
To: [linux-net@vger.kernel.org](mailto:linux-net@vger.kernel.org)

Hi!

This patch:

- 1) updates the 3c59x.c driver to use module\_param() stuff.
- 2) kills a strange character somewhere at the bottom of the patch

I hope it is right, it is my first glance at module\_param() :-)

```
3c59x.c | 67 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++-----  
1 files changed, 33 insertions(+), 34 deletions(-)
```

Oh, in order to use the module\_param() macros i had to move the variable before module\_param.

Signed-off-by: Maciej Soltysiak <[solt2@dns.toxicfilms.tv](mailto:solt2@dns.toxicfilms.tv)>

Please review and hopefully apply.

Regars,  
Maciej

```
diff -ru linux.orig/drivers/net/3c59x.c linux/drivers/net/3c59x.c  
--- linux.orig/drivers/net/3c59x.c 2004-12-30 15:27:40.000000000 +0100  
+++ linux/drivers/net/3c59x.c 2004-12-30 14:33:29.000000000 +0100  
@@ -240,6 +240,7 @@
```

```
#include <linux/config.h>  
#include <linux/module.h>  
+#include <linux/moduleparam.h>  
#include <linux/kernel.h>  
#include <linux/string.h>  
#include <linux/timer.h>  
@@ -269,6 +270,23 @@
```

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

```
/* This driver uses 'options' to pass the media type, full-duplex flag, etc. */
```

## Linux-Kernel: [PATCH 2.6] Update to module\_params() in 3c59x.c

```
+/* Option count limit only --- unlimited interfaces are supported. */
+#define MAX_UNITS 8
+static int options[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, };
+static int full_duplex[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, };
+static int hw_checksums[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, };
+static int flow_ctrl[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, };
+static int enable_wol[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, };
+static int global_options = -1;
+static int global_full_duplex = -1;
+static int global_enable_wol = -1;
+
+/* #define dev_alloc_skb dev_alloc_skb_debug */
+
+/* Variables to work-around the Compaq PCI BIOS32 problem. */
+static int compaq_ioaddr, compaq_irq, compaq_device_id = 0x5900;
+static struct net_device *compaq_net_device;

static char version[] __devinitdata =
DRV_NAME ": Donald Becker and others. www.scyld.com/network/vortex.html\n";
@@ -279,21 +297,21 @@
MODULE_LICENSE("GPL");
MODULE_VERSION(DRV_VERSION);

-MODULE_PARM(debug, "i");
-MODULE_PARM(global_options, "i");
-MODULE_PARM(options, "1- __MODULE_STRING(8) \"i\"");
-MODULE_PARM(global_full_duplex, "i");
-MODULE_PARM(full_duplex, "1- __MODULE_STRING(8) \"i\"");
-MODULE_PARM(hw_checksums, "1- __MODULE_STRING(8) \"i\"");
-MODULE_PARM(flow_ctrl, "1- __MODULE_STRING(8) \"i\"");
-MODULE_PARM(global_enable_wol, "i");
-MODULE_PARM(enable_wol, "1- __MODULE_STRING(8) \"i\"");
-MODULE_PARM(rx_copybreak, "i");
-MODULE_PARM(max_interrupt_work, "i");
-MODULE_PARM(compaq_ioaddr, "i");
-MODULE_PARM(compaq_irq, "i");
-MODULE_PARM(compaq_device_id, "i");
-MODULE_PARM(watchdog, "i");
+module_param(debug, int, 0);
+module_param(global_options, int, 0);
+module_param_array(options, int, NULL, 0);
+module_param(global_full_duplex, int, 0);
+module_param_array(full_duplex, int, NULL, 0);
+module_param_array(hw_checksums, int, NULL, 0);
+module_param_array(flow_ctrl, int, NULL, 0);
+module_param(global_enable_wol, int, 0);
+module_param_array(enable_wol, int, NULL, 0);
+module_param(rx_copybreak, int, 0);
+module_param(max_interrupt_work, int, 0);
+module_param(compaq_ioaddr, int, 0);
+module_param(compaq_irq, int, 0);
```

## Linux-Kernel: [PATCH 2.6] Update to module\_params() in 3c59x.c

```
+module_param(compaq_device_id, int, 0);
+module_param(watchdog, int, 0);
MODULE_PARM_DESC(debug, "3c59x debug level (0-6)");
MODULE_PARM_DESC(options, "3c59x: Bits 0-3: media type, bit 4: bus mastering, bit 9: full duplex");
MODULE_PARM_DESC(global_options, "3c59x: same as options, but applies to all NICs if options is
unset");
@@ -910,25 +928,6 @@
static struct ethtool_ops vortex_ethtool_ops;
static void set_8021q_mode(struct net_device *dev, int enable);

-
-/* This driver uses 'options' to pass the media type, full-duplex flag, etc. */
-/* Option count limit only --- unlimited interfaces are supported. */
-#define MAX_UNITS 8
-static int options[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, -1 };
-static int full_duplex[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, -1 };
-static int hw_checksums[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, -1 };
-static int flow_ctrl[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, -1 };
-static int enable_wol[MAX_UNITS] = { -1, -1, -1, -1, -1, -1, -1, -1, -1 };
-static int global_options = -1;
-static int global_full_duplex = -1;
-static int global_enable_wol = -1;
-
-/* #define dev_alloc_skb dev_alloc_skb_debug */
-
-/* Variables to work-around the Compaq PCI BIOS32 problem. */
-static int compaq_ioaddr, compaq_irq, compaq_device_id = 0x5900;
-static struct net_device *compaq_net_device;
-
static int vortex_cards_found;

#ifdef CONFIG_NET_POLL_CONTROLLER
```

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- application/octet-stream attachment: [3c59x.c.diff](#)