

[PATCH 9/11] LED: Add device support for tosa

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-01/msg11408.html>

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Adds LED drivers for LEDs found on the Sharp Zaurus c6000 model (tosa).

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Index: linux-2.6.15/drivers/leds/Kconfig

```
----- linux-2.6.15.orig/drivers/leds/Kconfig 2006-01-30 00:25:28.000000000 +0000
+++ linux-2.6.15/drivers/leds/Kconfig 2006-01-30 00:25:52.000000000 +0000
@@ -52,6 +52,13 @@
```

particular board must have LEDs and they must be connected to the GPIO lines. If unsure, say Y.

```
+config LEDS_TOSA
+ tristate "LED Support for the Sharp SL-6000 series"
+ depends LEDS_CLASS && PXA_SHARPSL
+ help
+ This option enables support for the LEDs on Sharp Zaurus
+ SL-6000 series.
```

```
+
+config LEDS_TRIGGER_TIMER
+ tristate "LED Timer Trigger"
+ depends LEDS_TRIGGERS
Index: linux-2.6.15/drivers/leds/Makefile
```

```
----- linux-2.6.15.orig/drivers/leds/Makefile 2006-01-30 00:25:28.000000000 +0000
+++ linux-2.6.15/drivers/leds/Makefile 2006-01-30 00:26:48.000000000 +0000
@@ -9,6 +9,7 @@
```

```
obj-$(CONFIG_LEDS_LOCOMO) += leds-locomo.o
obj-$(CONFIG_LEDS_SPITZ) += leds-spitz.o
obj-$(CONFIG_LEDS_IXP4XX) += leds-ixp4xx-gpio.o
+obj-$(CONFIG_LEDS_TOSA) += leds-tosa.o
```

```
# LED Triggers
obj-$(CONFIG_LEDS_TRIGGER_TIMER) += ledtrig-timer.o
Index: linux-2.6.15/drivers/leds/leds-tosa.c
```

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```
--- /dev/null 1970-01-01 00:00:00.000000000 +0000
+++ linux-2.6.15/drivers/leds/leds-tosa.c 2006-01-30 00:28:15.000000000 +0000
@@ -0,0 +1,123 @@
+/*
+ * LED Triggers Core
+ *
+ * Copyright 2005 Dirk Opfer
+ *
+ * Author: Dirk Opfer <Dirk@xxxxxxxxxxxxxxxxxx>
+ * based on spitz.c
+ *
+ * This program is free software; you can redistribute it and/or modify
+ * it under the terms of the GNU General Public License version 2 as
+ * published by the Free Software Foundation.
+ *
+ */
+
+#include <linux/config.h>
+#include <linux/kernel.h>
+#include <linux/init.h>
+#include <linux/platform_device.h>
+#include <linux/leds.h>
+#include <asm/hardware/scoop.h>
+#include <asm/mach-types.h>
+#include <asm/arch/hardware.h>
+#include <asm/arch/pxa-regs.h>
+#include <asm/arch/tosa.h>
+
+void tosaled_amber_set(struct led_device *led_dev, enum led_brightness value)
+{
+ if (value)
+ set_scoop_gpio(&tosascoop_jc_device.dev, TOSA_SCOOP_JC_CHRG_ERR_LED);
+ else
+ reset_scoop_gpio(&tosascoop_jc_device.dev, TOSA_SCOOP_JC_CHRG_ERR_LED);
+}
+
+void tosaled_green_set(struct led_device *led_dev, enum led_brightness value)
+{
+ if (value)
+ set_scoop_gpio(&tosascoop_jc_device.dev, TOSA_SCOOP_JC_NOTE_LED);
+ else
+ reset_scoop_gpio(&tosascoop_jc_device.dev, TOSA_SCOOP_JC_NOTE_LED);
+}
+
+static struct led_device tosa_amber_led = {
+ .name = "tosa:amber",
+ .default_trigger = "sharpsh-charge",
+ .brightness_set = tosaled_amber_set,
+};
+
+static struct led_device tosa_green_led = {
```

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```
+ .name = "tosa:green",
+ .default_trigger = "nand-disk",
+ .brightness_set = tosaled_green_set,
+};
+
+ #ifdef CONFIG_PM
+ static int tosaled_suspend(struct platform_device *dev, pm_message_t state)
+ {
+ #ifdef CONFIG_LEDS_TRIGGERS
+ if (tosa_amber_led.trigger && strcmp(tosa_amber_led.trigger->name, "sharpsl-charge"))
+ #endif
+ led_device_suspend(&tosa_amber_led);
+ led_device_suspend(&tosa_green_led);
+ return 0;
+ }
+
+ static int tosaled_resume(struct platform_device *dev)
+ {
+ led_device_resume(&tosa_amber_led);
+ led_device_resume(&tosa_green_led);
+ return 0;
+ }
+ #endif
+
+ static int tosaled_probe(struct platform_device *pdev)
+ {
+ int ret;
+
+ ret = led_device_register(&pdev->dev, &tosa_amber_led);
+ if (ret < 0)
+ return ret;
+
+ ret = led_device_register(&pdev->dev, &tosa_green_led);
+ if (ret < 0)
+ led_device_unregister(&tosa_amber_led);
+
+ return ret;
+ }
+
+ static int tosaled_remove(struct platform_device *pdev)
+ {
+ led_device_unregister(&tosa_amber_led);
+ led_device_unregister(&tosa_green_led);
+
+ return 0;
+ }
+
+ static struct platform_driver tosaled_driver = {
+ .probe = tosaled_probe,
+ .remove = tosaled_remove,
+ #ifdef CONFIG_PM
```

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```
+ .suspend = tosaled_suspend,
+ .resume = tosaled_resume,
+ #endif
+ .driver = {
+ .name = "tosa-led",
+ },
+ };
+
+ static int __devinit tosaled_init(void)
+ {
+ return platform_driver_register(&tosaled_driver);
+ }
+
+ static void tosaled_exit(void)
+ {
+ platform_driver_unregister(&tosaled_driver);
+ }
+
+ module_init(tosaled_init);
+ module_exit(tosaled_exit);
+
+ MODULE_AUTHOR("Dirk Opfer <Dirk@xxxxxxxxxxxxxxxx>");
+ MODULE_DESCRIPTION("Tosa LED driver");
+ MODULE_LICENSE("GPL");
```

Index: linux-2.6.15/arch/arm/mach-pxa/tosa.c

```
-----
--- linux-2.6.15.orig/arch/arm/mach-pxa/tosa.c 2006-01-03 03:21:10.000000000 +0000
+++ linux-2.6.15/arch/arm/mach-pxa/tosa.c 2006-01-30 00:29:25.000000000 +0000
@@ -252,10 +252,19 @@
```

```
.id = -1,
};

+/*
+ * Tosa LEDs
+ */
+static struct platform_device tosaled_device = {
+ .name = "tosa-led",
+ .id = -1,
+ };
+
+ static struct platform_device *devices[] __initdata = {
+ &tosascoop_device,
+ &tosascoop_jc_device,
+ &tosakbd_device,
+ &tosaled_device,
+ };

static void __init tosa_init(void)
```

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