

[PATCH 11/11] LED: Add NAND MTD activity LED trigger

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-01/msg11413.html>

- *From:* Richard Purdie <rpurdie@xxxxxxxx>
 - *Date:* Tue, 31 Jan 2006 13:42:02 +0000
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Index: linux-2.6.15/drivers/mtd/nand/nand_base.c

```
----- linux-2.6.15.orig/drivers/mtd/nand/nand_base.c 2006-01-29 14:37:20.000000000 +0000
+++ linux-2.6.15/drivers/mtd/nand/nand_base.c 2006-01-29 15:25:11.000000000 +0000
@@ -80,6 +80,7 @@
#include <linux/mtd/compatmac.h>
#include <linux/interrupt.h>
#include <linux/bitops.h>
+#include <linux/leds.h>
#include <asm/io.h>

#ifdef CONFIG_MTD_PARTITIONS
@@ -515,6 +516,8 @@
return nand_isbad_bbt (mtd, ofs, allowbbt);
}

+INIT_LED_TRIGGER(nand_led_trigger);
+
+/*
* Wait for the ready pin, after a command
* The timeout is caught later.
@@ -524,12 +527,14 @@
struct nand_chip *this = mtd->priv;
unsigned long timeo = jiffies + 2;

+ led_trigger_event(nand_led_trigger, LED_FULL);
/* wait until command is processed or timeout occurs */
do {
if (this->dev_ready(mtd))
- return;
+ break;
touch_softlockup_watchdog();
} while (time_before(jiffies, timeo));
+ led_trigger_event(nand_led_trigger, LED_OFF);
}

/**
@@ -817,6 +822,8 @@
```

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```
else
timeo += (HZ * 20) / 1000;

+ led_trigger_event(nand_led_trigger, LED_FULL);
+
/* Apply this short delay always to ensure that we do wait tWB in
* any case on any machine. */
ndelay (100);
@@ -840,6 +847,8 @@
}
cond_resched();
}
+ led_trigger_event(nand_led_trigger, LED_OFF);
+
status = (int) this->read_byte(mtd);
return status;
}
@@ -2724,6 +2733,21 @@
EXPORT_SYMBOL_GPL (nand_scan);
EXPORT_SYMBOL_GPL (nand_release);

+
+static int __init nand_base_init(void)
+{
+ led_trigger_register_simple("nand-disk", &nand_led_trigger);
+ return 0;
+}
+
+static void nand_base_exit(void)
+{
+ led_trigger_unregister_simple(nand_led_trigger);
+}
+
+module_init(nand_base_init);
+module_exit(nand_base_exit);
+
MODULE_LICENSE ("GPL");
MODULE_AUTHOR ("Steven J. Hill <sjhill@xxxxxxxxxxxxxxxxxxxx>, Thomas Gleixner
<tglx@xxxxxxxxxxxxxxxx>");
MODULE_DESCRIPTION ("Generic NAND flash driver code");
```

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