

[PATCH 1/3] vprintk support

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-07/6312.html>

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Date: 07/31/04

Date: Fri, 30 Jul 2004 17:38:23 -0500

To: linux-kernel <linux-kernel@vger.kernel.org>, Andrew Morton <akpm@osdl.org>

Add vprintk call. This lets us directly pass varargs stuff to the console without using vsnprintf to an intermediate buffer.

Signed-off-by: Matt Mackall <mpm@selenic.com>

tiny-mpm/include/linux/kernel.h | 1 +
tiny-mpm/kernel/printk.c | 14 ++++++++-----
2 files changed, 13 insertions(+), 2 deletions(-)

Index: tiny/include/linux/kernel.h

```
-----  
--- tiny.orig/include/linux/kernel.h 2004-04-15 14:18:37.000000000 -0500  
+++ tiny/include/linux/kernel.h 2004-04-19 13:29:39.000000000 -0500  
@@ -87,6 +87,7 @@  
extern int kernel_text_address(unsigned long addr);  
extern int session_of_pgrp(int pgrp);  
  
+asmlinkage int vprintk(const char *fmt, va_list args);  
asmlinkage int printk(const char *fmt, ...)  
    __attribute__((format (printf, 1, 2)));
```

Index: tiny/kernel/printk.c

```
-----  
--- tiny.orig/kernel/printk.c 2004-04-15 14:18:37.000000000 -0500  
+++ tiny/kernel/printk.c 2004-04-19 13:29:39.000000000 -0500  
@@ -483,6 +483,17 @@  
asmlinkage int printk(const char *fmt, ...)  
{  
    va_list args;  
+ int r;  
+  
+ va_start(args, fmt);  
+ r = vprintk(fmt, args);  
+ va_end(args);  
+  
+ return r;  
+}
```

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```
+
+asmlinkage int vprintk(const char *fmt, va_list args)
+{
    unsigned long flags;
    int printed_len;
    char *p;
@@ -500,9 +511,7 @@
    spin_lock_irqsave(&logbuf_lock, flags);

    /* Emit the output into the temporary buffer */
- va_start(args, fmt);
    printed_len = vsnprintf(printk_buf, sizeof(printk_buf), fmt, args);
- va_end(args);

    /*
     * Copy the output into log_buf. If the caller didn't provide
@@ -554,6 +563,7 @@
    return printed_len;
}
EXPORT_SYMBOL(printk);
+EXPORT_SYMBOL(vprintk);

/**
 * acquire_console_sem - lock the console system for exclusive use.

--
Mathematics is the supreme nostalgia of our time.
-
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```