

Re: printf internals

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-12/msg06931.html>

- *From:* "Masoud Sharbiani \("E39H/ 41(İ'Fİ\)" <masouds@xxxxxxxxxx>
 - *Date:* Wed, 19 Dec 2007 16:04:30 -0800
-

On 12/19/07, Siva Prasad <sprasad@xxxxxxxxxx> wrote:

Yes!... this is a embedded system, and will not have monitor. So, serial is the default console.

I pass cmdline as "root=/dev/ram rw console=ttyS0,115200"

Adding a CONSOLE=/dev/ttyS0 works for me on both Debian and Redhat; You also want a inittab entry for console on serial device. (use google and find it yourself).
cheers,
Masoud

Thanks
Siva

-----Original Message-----

From: Scott Russell [<mailto:catfather@xxxxxxxxxx>]
Sent: Wednesday, December 19, 2007 3:31 PM
To: Siva Prasad
Cc: Clemens Koller; David Newall; linux-kernel@xxxxxxxxxxxxxxxxxx
Subject: RE: printf internals

On Wed, 2007-12-19 at 14:33 -0800, Siva Prasad wrote:

Thank you very much for your response Clemens.

I tried strace on a regular system. It does not show which tty, etc., as it uses the stdout (fd = 1) and write(1, ...) to it.

This is not a student project. I am trying to build my own kernel and

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ramdisk. Kernel boots fine to a point where it starts accessing ramdisk and executes init scripts. From there on nothing gets printed. I did some debugging and found that prints of user land programs are not coming to the serial console, while kernel prints are working fine. I found all the programs getting executed, by placing a printk in execve routine and printing the arguments.

So, I wanted to trace down the path from user program to the kernel

and see why it is not printing messages from user program. I placed a printk in drivers/char/tty_io.c:tty_write() and it is not getting called from my file system. I tried the same thing on my good system (say regular PC) and it works as expected.

Any clues that can help debug this issue is highly appreciated.
How can I get access to the same printf string inside kernel.

This sounds like you're printing out the serial console instead.

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Scott <catfather@xxxxxxxxxx>
AIM: BlueCamel

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