

关于 "setconsole.c" Alesssandro Rubini 的邮件 回复

抱着试一试的心态给偶像写了一封求助e-mail,回复了!!!我的小心脏啊~

呵呵~Rubini是谁不解释了...

我的HELP原文主要的关于setconsole.c的问题,这个是LDD3的一个小程序

 $\tt set console.\, c$

- setconsole.c -- choose a console to receive kernel messages
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```
#include
#i
```

但是在虚拟控制台之间测试一直不成功,很纠结^{*} 我用*某*搜索引擎检索了很多blog,都是水...都是直接copy原书的内容,仅发现一个有对程序进行测试的,但是测试没有成功,google不能用,不知道情况如果,用TTT检索出来的一样,没有实质性的对setconsole.c的讨论和测试!

 $fprintf(stderr, \ "\$s: \ need \ a \ single \ arg\n", argv[0]); \ exit(1);$

if (ioctl(STDIN_FILENO, TIOCLINUX, bytes)<0) { /* use stdin */</pre>

fprintf(stderr,"%s: ioctl(stdin, TIOCLINUX): %s\n",

argv[0], strerror(errno));

下面是Rubini 对我的回复:

else {

}

exit(0);

exit(1);

发件人 Alessandro Rubini☆
主题 Re: HELP for setconsole.c(LDD3)
收件人 我 <jasonleaster@gmail.com>☆

Hello Jason.

[...]
So I am writing this e-mail for your **help**.

You are welcome.

I am gona to use this code to redirect terminal I/O in current console to another console. Something like that if I printf("hello world!\n"); in current console and it would print out in another console.

BUT IT DOESN'T WORK...

I think you misunderstood the role of the program (or, my text is not clear enough in explaining it).

LDD is about kernel drivers and kernel code, so your printf("h, w") is not affected by code in the book. What it affects is printk("...\n"), i.e. messages generated by kernel code -- either from the stock kernel+drivers or by the modules you built and loaded.

In this context the console is the text screen. If you are working on a PC or another modern machine, most likely you run the graphic environment. The "terminal" or "tty" in your graphic environment is not a "console".

To reach the text console, please try typing ctrl-alt-F1. Usually distributions leave 6 text consoles, and the graphic environment is on console 7. So, with ctrl-alt-F3 you reach console 3. To go



Please note, also, that your printk (e.g. if you load hello.ko from the LDD examples) is only printed to the console if it's message priority is bigger than the current threshold. Thus the "setlevel" program, but you can also "echo 8 > /proc/sys/kernel/printk" to enable debug messages.

I hope this helps you in making sense of the section about the console and kernel messages. If the core misunderstanding is clarified, everything should be easier.

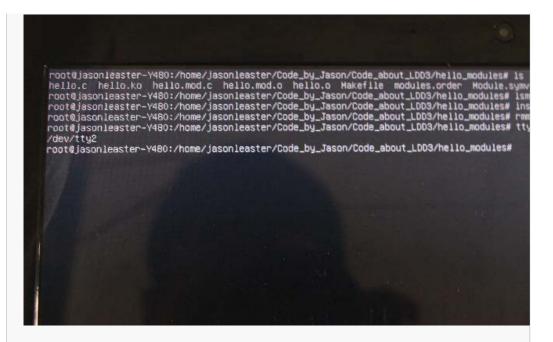
/alessandro

```
- added if ( fd < 0 ) { perror("/dev/console"); exit(1); } // <--- added if ( ioct1( fd, TIOCLINUX, bytes ) < 0 ) // <--- changed { fprintf( stderr, "%s: ioct1( fd, TIOCLINUX ): %s\n", // <--- argv[0], strerror( errno ) ); exit(1); } exit(0); }

是可以在console之间重定向IO的!!
```

这幅图看到的是tty4,我把控制台的IO重定向到了console 3,也就是/dev/tty3 切换到tty2,我们插入hello.ko模块,调用printk,打印hello world

我故意执行了tty这个shell程序,提示读者当前我们在tty2,进行insmod操作



明明是有hello world的为什么不打印呢?去哪儿了?console 3!

我们ctrl + alt + F3 切换到console 3看看

```
Ubuntu 14.04.1 LTS jasonleaster—Y480 tty3

jasonleaster—Y480 login: jasonleaster
Password:
Last login: Sun Aug 31 17:04:29 CST 2014 on tty1
Welcome to Ubuntu 14.04.1 LTS (GNU/Linux 3.13.11.4 x86_64)

* Documentation: https://help.ubuntu.com/
jasonleaster@jasonleaster—Y480:~$ [41239.089627] defined Mac [41239.089638] hello world!
[41247.563437] I am back.kernel in planet Linux!
```

终于搞定了! 利用ioct1实现了对于不同console之间的I0重定向!

最后谢谢偶像[~] Alesssandro Rubini & Allan Cruse





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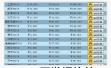
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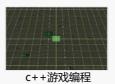
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