

Explanation on how to activate a serial console starting at *bootloader* all the way up to a *tty* login request with Debian.

This command shows all current *tty* sessions on the machine.

```
dmesg | grep tty
```

Configuration FW-machine:

```
sudo apt-get install minicom  
sudo minicom -s
```



Illustration 1: minicom -s

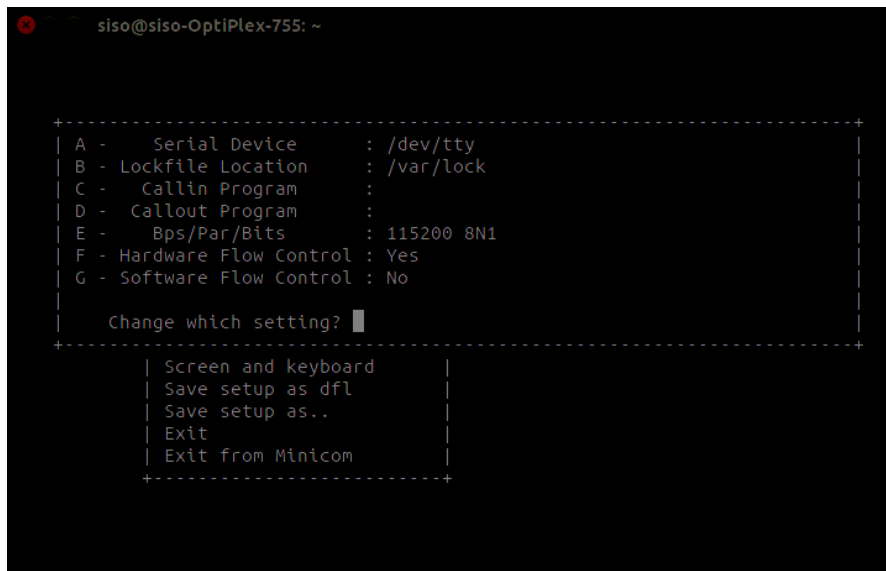


Illustration 2: Serial port setup output

Configure as shown on Illustration 2 and press Enter to change settings.

Go to "Save setup as.." and give a desired name. (*if saved as **serial** next time this configuration has to be run, type **sudo minicom serial***)

Configuration Debian/Ubuntu machine:

Edit or add the following lines in `/etc/default/grub`:

```
GRUB_CMDLINE_LINUX_DEFAULT="console=tty0 console=ttyS0,115200n8"  
GRUB_TERMINAL=console  
GRUB_SERIAL_COMMAND="serial --speed=115200 --unit=0 --word=8 --parity=no --stop=1"
```

Run `update-grub` – this leads to outputting all Bootloader, Kernel and Init messages on the serial console on next boot.

For login prompt on serial console modify `/etc/inittab`:

```
1:2345:respawn:/sbin/getty 38400 tty1  
2:23:respawn:/sbin/getty 38400 tty2  
3:23:respawn:/sbin/getty 38400 tty3  
4:23:respawn:/sbin/getty 38400 tty4  
5:23:respawn:/sbin/getty 38400 tty5  
6:23:respawn:/sbin/getty 38400 tty6  
# Serial console  
s0:2345:respawn:/sbin/getty -L 115200 ttyS0 vt102
```

Run `init q` to reload init or simply reboot.