Arquitectura de Computadores 2 Universidade de Aveiro

INTRODUCTION: Establishing USB connection to Pic32

```
redeagleye@nohostname:~> ldpic32 -i
```

DETPIC32 Serial Programmer, V0.4 Universidade de Aveiro, DETI J.L.Azevedo, 2011, 2012 Report bugs to jla@ua.pt

ERROR: opening ("/dev/ttyUSB0")

Solution:

This happens because your *username* is not associated with the group *dialout* which one is used by "/dev/ttyUSB0"

Lets associate your username to group dialout:

usermod arguments:

- -a add the user to the supplemental group(s) (Use only with the -G argument!)
- -G group1,group2,group#

redeagleye@nohostname:~> sudo usermod -a -G dialout redeagleye

This is a permanent fix!

The red username redeagleye should be replaced for the one you use on your system!!

After using the above command please LOG OUT and LOG IN!!

Pedro Rodrigues Universidade de Aveiro

In order to check your username groups you can use the command bellow:

```
redeagleye@nohostname:~> id redeagleye
uid=1000(redeagleye) gid=100(users) groups=16(dialout),100(users)
```

The red username redeagleye should be replaced for the one you use on your system!!

Check connection to pic:

```
redeagleye@nohostname:~> ldpic32 -i

DETPIC32 Serial Programmer, V0.4
Universidade de Aveiro, DETI
J.L.Azevedo, 2011, 2012
Report bugs to jla@ua.pt

Press reset to start
```

push reset button

```
DETPIC32 Serial Programmer, V0.4
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System info:
- BL Version : DETPIC32 SBL V0.3
- Device ID : 14 (32MX795F512H)
- Core frequency : 40 MHz
- Peripheral freq. : 20 MHz
- Flash size : 524288 Bytes (512 kB)
- RAM size : 131072 Bytes (128 kB)
- User program size: 5368 Bytes (1.0%)
```

Open Pic Terminal:

```
redeagleye@nohostname:~> pterm

DETPIC32 terminal emulator, V0.5 (January 2013)
Universidade de Aveiro, DETI
TOS, 2011-2013
Send bug reports to tos@ua.pt
```

push reset button

```
redeagleye@nohostname:~> pterm

DETPIC32 terminal emulator, V0.5 (January 2013)
Universidade de Aveiro, DETI
TOS, 2011-2013
Send bug reports to tos@ua.pt

#DP32BL0316$
DETPIC32, Bootloader V0.3
Universidade de Aveiro, DETI
J.L.Azevedo, 2011

AC2 - DETPIC32 primer ______ msg

Program terminated - exit code 0
```