

******DRAFT******

SLIP for Ultibo
03/20/20

******DRAFT******

Started with the project [devel@mypi3-15:~/Examples/Synapse/SerialEcho/RPi2](#)

The kernel was built and tested on a RPi3B+ running ultibo and RPi4 4G running RaspBain with a PMODUSBUART.

[devel@mypi3-15:~/Ultibo_Projects/slip-ppp/snapase/RPi2](#)

Needed to update my AraratSynapse at github 03/20/20.

git clone https://github.com/develone/AraratSynapse.git
This branch is 3 commits behind ultibohub:ultibo.

git log

commit eda069bfd8001700def7e707016e0a696d74dce3 (HEAD -> ultibo, origin/ultibo, origin/HEAD)

Author: Ultibo <admin@ultibo.org>

Date: Sat Sep 30 11:23:02 2017 +1000

Update README

git clone https://github.com/ultibohub/AraratSynapse.git

git log

commit d6c76d9b2c1b1e77151985861355c723ff49550a (HEAD -> ultibo, origin/ultibo, origin/HEAD)

Author: Ultibo <admin@ultibo.org>

Date: Fri Jun 15 13:07:18 2018 +1000

Fix for socket send and receive timeout values plus other minor fixes

git remote add upstream https://github.com/ultibohub/AraratSynapse.git

git fetch upstream

git merge upstream/ultibo

git push origin ultibo

git log

commit d6c76d9b2c1b1e77151985861355c723ff49550a (HEAD -> ultibo, upstream/ultibo, origin/ultibo, origin/HEAD)

Author: Ultibo <admin@ultibo.org>

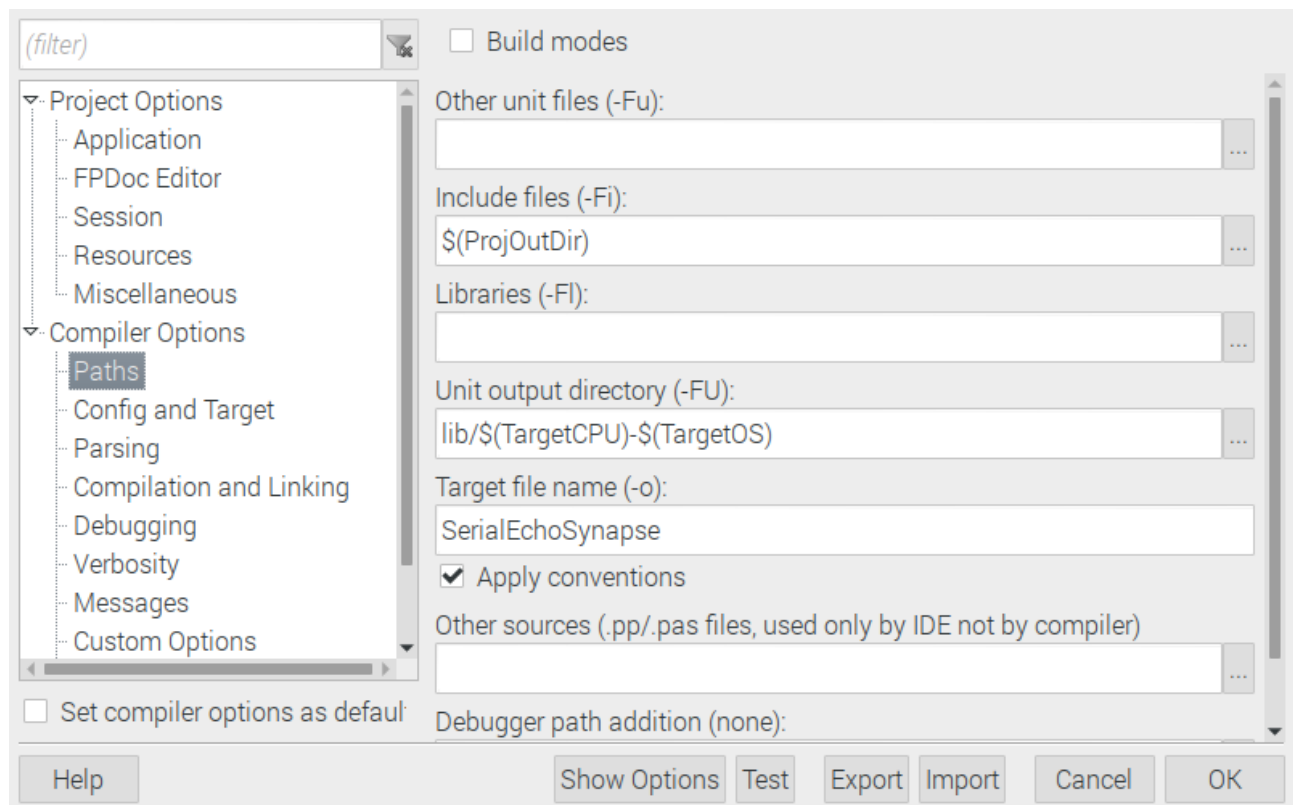
Date: Fri Jun 15 13:07:18 2018 +1000

Fix for socket send and receive timeout values plus other minor fixes

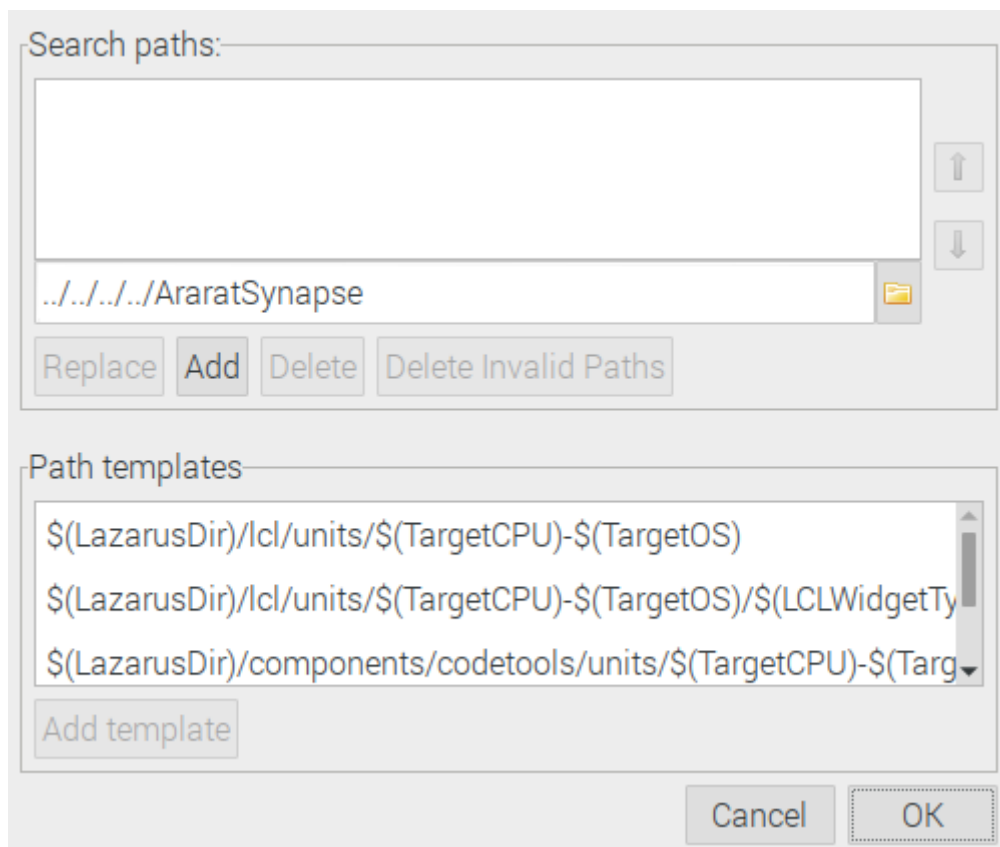
Started with the project [devel@mypi3-15:~/Examples/Synapse/SerialEcho/RPi2](#)

[devel@mypi3-15:~/Ultibo_Projects/slip-ppp/snapase/RPi2](#)

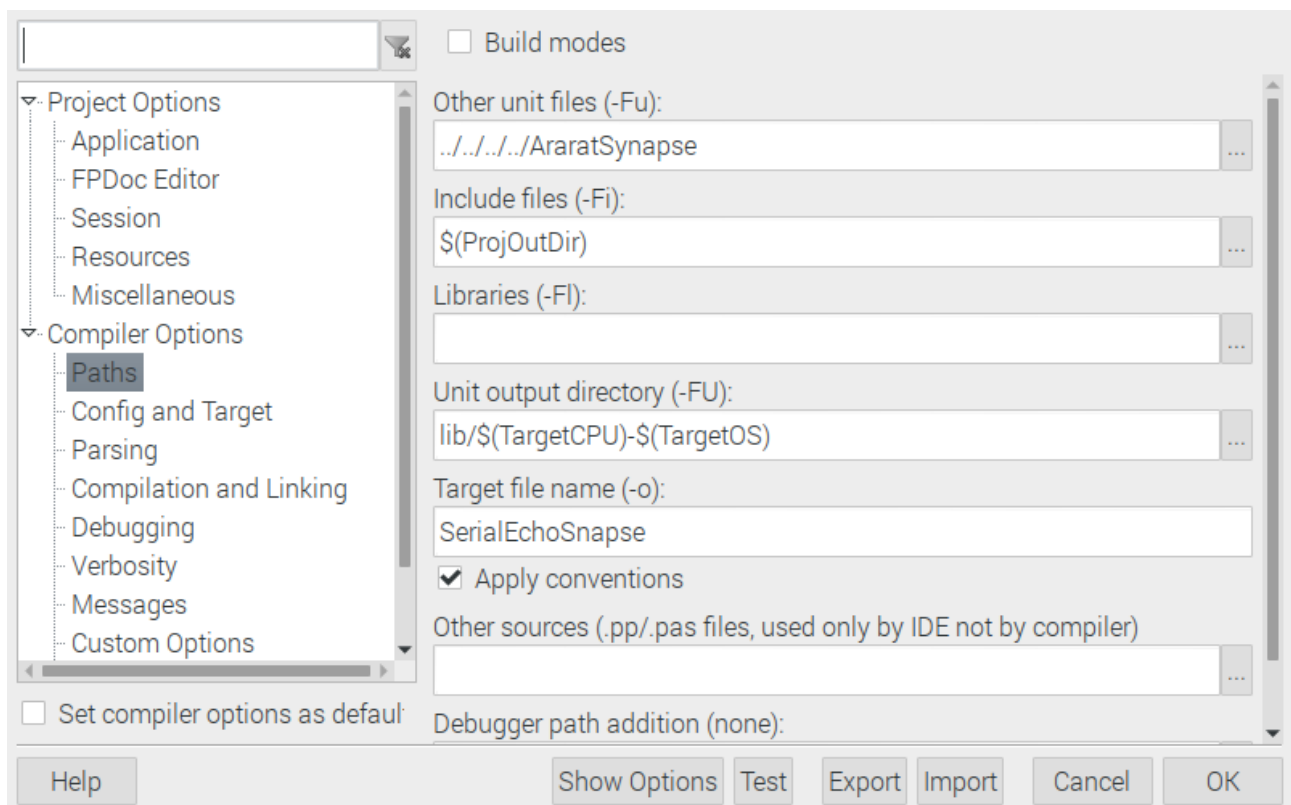
Needed to add the “/home/devel/AraratSynapse” to Other unit files (-FU):



Add



Depress OK



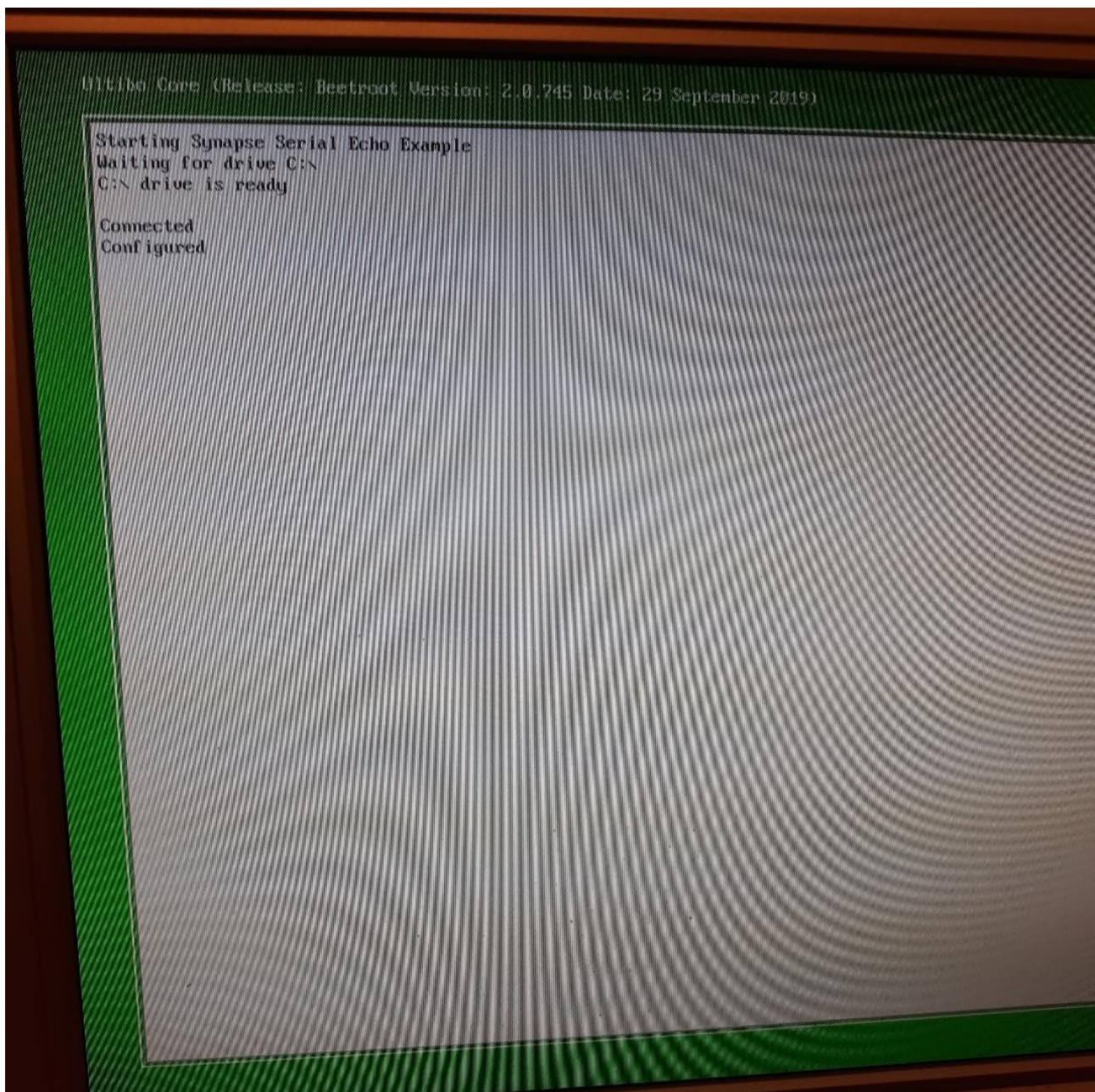
```
-Tultibo -Parm -CpARMV7A -WpRPI2B @/home/devel/ultibo/core/fpc/bin/RPI2.CFG -MObjFPC  
-Scghi -CX -O2 -XX -l -vewnhibq -Filib/arm-ultibo -Fu../.../AraratSynapse -Fu. -Fulib/arm-  
ultibo
```

```
devel@mypi3-15:~/Ultibo_Projects/slip-ppp/snapase/RPi2 $ ls lib/arm-ultibo/  
SerialEchoSnapse.compiled synafpc.o synaser.o synautil.o  
SerialEchoSnapse.o      synafpc.ppu synaser.ppu synautil.ppu
```

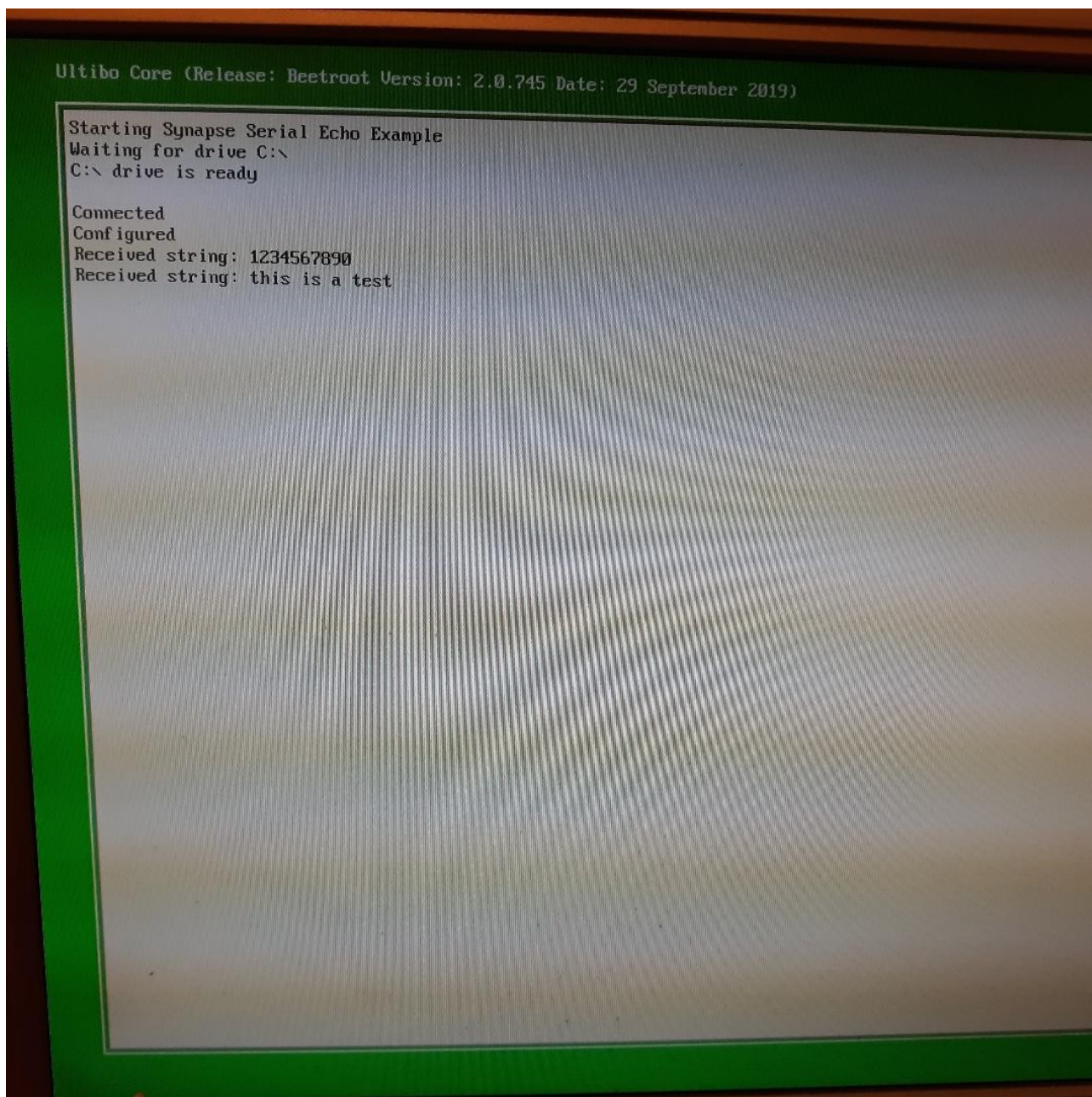
```
-rwxr-xr-x 1 devel devel 2407512 Mar 19 11:46 kernel7.img
```

The 1M kernel7.img was created in ~/Ultibo_Projects/slip-ppp/snapase/RPi2
This where the code was moved to from ~/Ultibo_Projects/slip-ppp/snapase/RPi2

```
-rwxr-xr-x 1 devel devel 2407512 Mar 19 13:57 kernel7.img
```



Echo



sudo minicom -s

```
File Edit Tabs Help

+-----+
| A -   Serial Device       : /dev/ttyUSB0 |
| B - Lockfile Location    : /var/lock    |
| C -   Callin Program     :              |
| D -   Callout Program    :              |
| E -   Bps/Par/Bits       : 9600 8N1    |
| F - Hardware Flow Control : No         |
| G - Software Flow Control : No         |
|                                         |
|   Change which setting? █             |
+-----+
| Screen and keyboard      |
| Save setup as dfl       |
| Save setup as..         |
| Exit                     |
+-----+

CTRL-A Z for help | 9600 8N1 | NOR | Minicom 2.7.1 | VT102 | Offline | ttyUSB0
```

Modified the baud rate from 9600 to 1M

```
File Edit Tabs Help

+-----+
| A -   Serial Device       : /dev/ttyUSB0 |
| B - Lockfile Location    : /var/lock    |
| C -   Callin Program     :              |
| D -   Callout Program    :              |
| E -   Bps/Par/Bits       : 1000000 8N1 |
| F - Hardware Flow Control : No         |
| G - Software Flow Control : No         |
|                                         |
|   Change which setting? █             |
+-----+
| Screen and keyboard      |
| Save setup as dfl       |
| Save setup as..         |
| Exit                     |
+-----+

CTRL-A Z for help | 1000000 8N1 | NOR | Minicom 2.7.1 | VT102 | Offline | yUSB0
```

Tested OK at 1M

Testing OK

File Edit Tabs Help

11234567890
this is a test

(filter)

▼ Project Options

Application

FPDoc Editor

Session

Resources

Miscellaneous

▼ Compiler Options

Paths

Config and Target

Parsing

Compilation and Linking

Debugging

Verbosity

Messages

Custom Options

☐ Build modes

Other unit files (-Fu):
../../../../../Examples/lib;../../../../../AraratSynapse

Include files (-Fi):
\$(ProjOutDir);../../../../../Examples/lib

Libraries (-Fl):

Unit output directory (-FU):
lib/\$(TargetCPU)-\$(TargetOS)

Target file name (-o):
Serialsnapse

☒ Apply conventions

Other sources (.pp/.pas files, used only by IDE not by compiler)

☐ Set compiler options as default

Debugger path addition (none):

Help

Show Options

Test

Export

Import

Cancel

OK