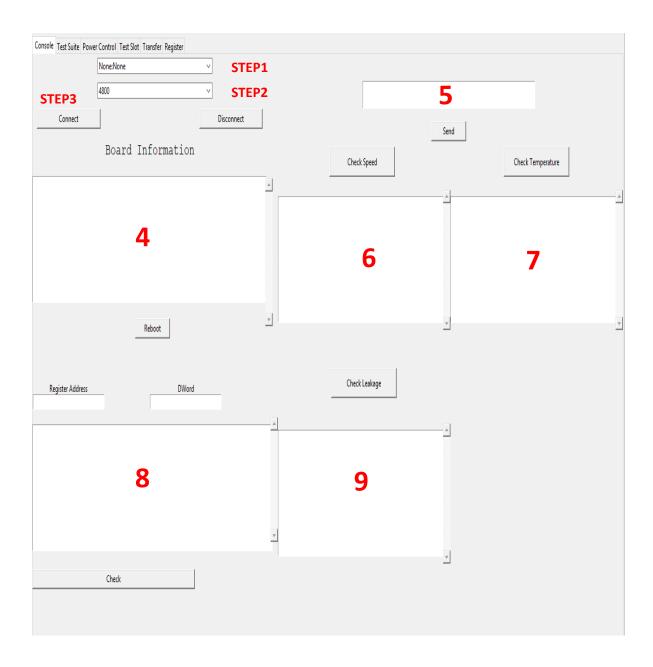
GUI USER GUIDE

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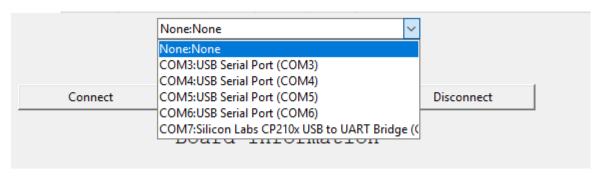
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1. Consol



• STEP1

Choose the com port.



• STEP2

Choose the baud rate.



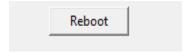
• STEP3

> Press button, "Connect" to connect the board.



• 4. (Board Information)

> Press "Reboot" to connect the board.



➤ After press button, "Reboot", we can get the information as following: version:4.80.120517 v1.20 BG4-CTpA0 ASIC

svn:62576

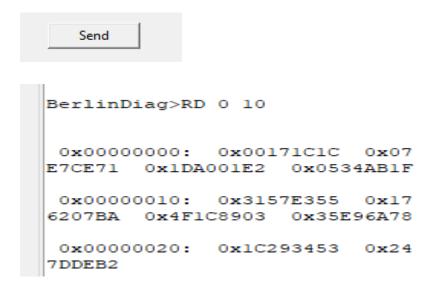
ProductId=0x03288b11

ProductIdExt=0xa0 FPGA Rev=0xb3a9fa72

Bootstrap=0x01800007

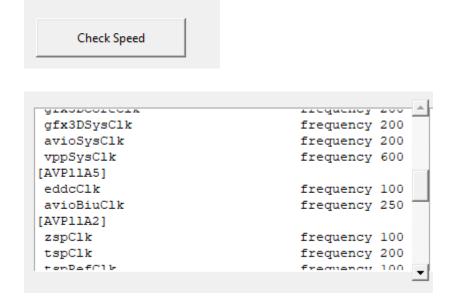
• 5. (Command Check box)

> Type any command and press button, "Send". The information will show in the text box of left side.



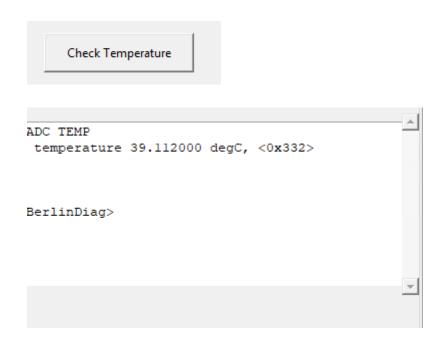
• 6. (Check Speed)

> Press button, "Check Speed" and the information will show in the text box.

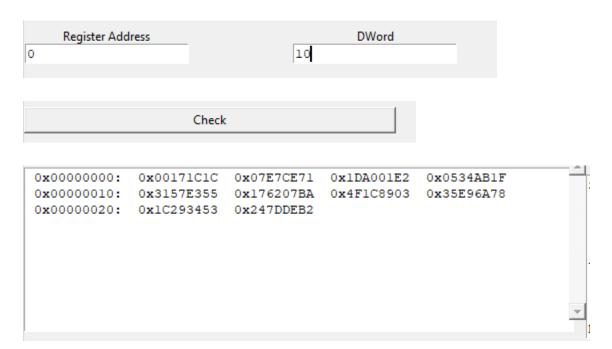


• 7. (Check Temperature)

> Press the button, "Check Temperature" and the information will show in the text box.

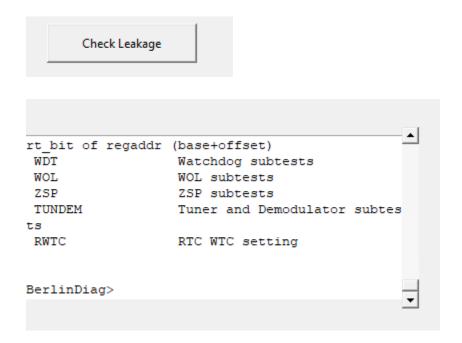


- 8. (check content for specific address)
- > Type register address and how many word you want to read. Next, press button "Check" and the information will show in the text box.



• 9. (Check Leakage)

> Press the button, "Check Leakage" and the information will show in the text box.



1.1 Applications

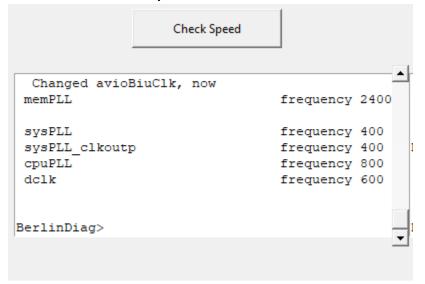
1.1.1 Catch Board Information

```
Board Information

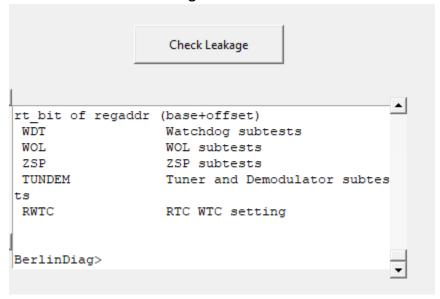
Bellinblagyy image_load_addr.oxfoozoooo
asking BCM to verify soc image.
data copy OK!!
bootext setup done

copying param_table from 0xf002c000 to 0xf7c2f000 (4096 bytes)
DDR4-2400 (CL=18, CWL=16)
    memPll frequency 2400
    sysPll frequency 400
    cpuPll frequency 800
```

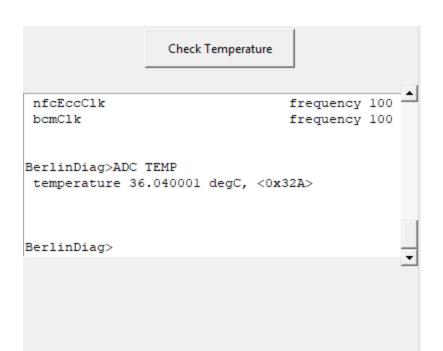
1.1.2 Catch Information of Speed



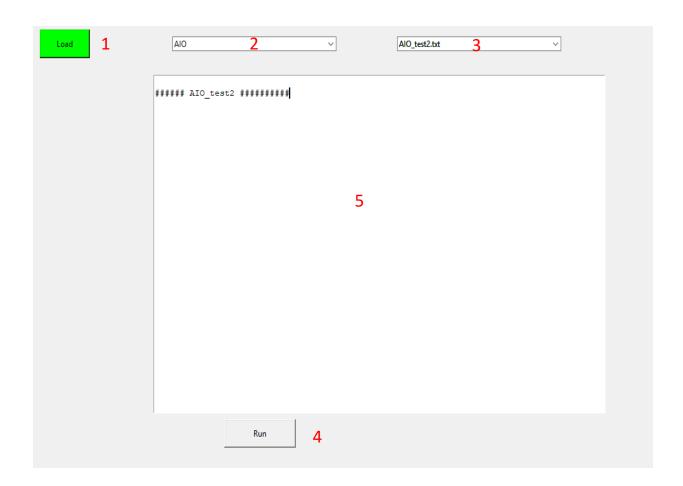
1.1.3 Catch Information of Leakage



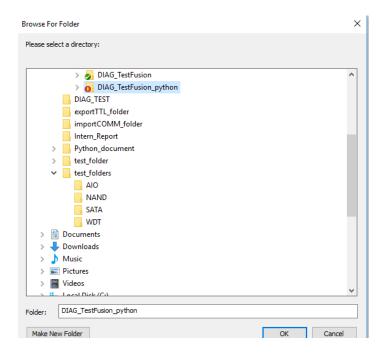
1.1.4 Catch Information of Temperature



2.Test Suite

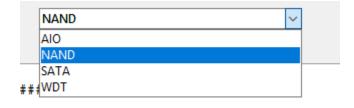


• 1. Press "Load" and then pop window will show up. Next, choose a file folder, which may contain many folders inside.

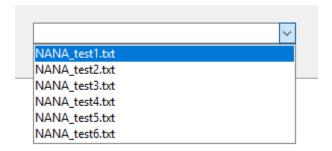


2.

> Choose a folder



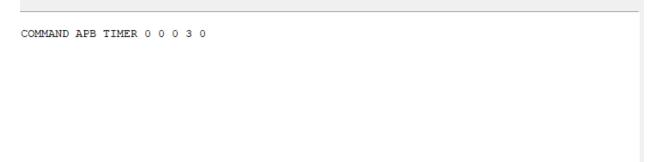
- 3.
- > Choose a file from the folder you choose.



- 4.
- > Press the button after you choose the specific file.

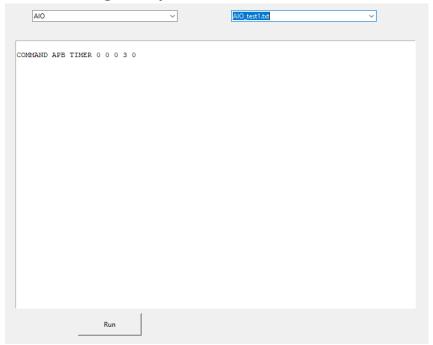


- 5.
- > Show the content of the file we choose.

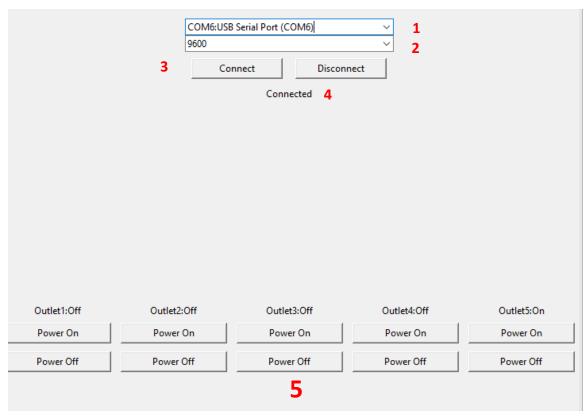


2.1 Applications

2.1.1 Run the Single Script

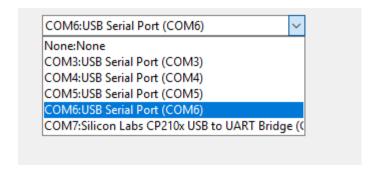


3. Power Control



1.

> Choose the comport of board.



2.

Choose the baud rate.



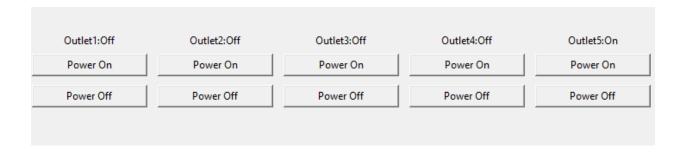
- 3.
- > After choosing the com port and baud rate, press the button "Connect" to connect the board.



- 4.
- Onec the board is connected, the label will show "Connected".

Connected	

- 5.
- > Choose the power switch, depend on what power slot we use.

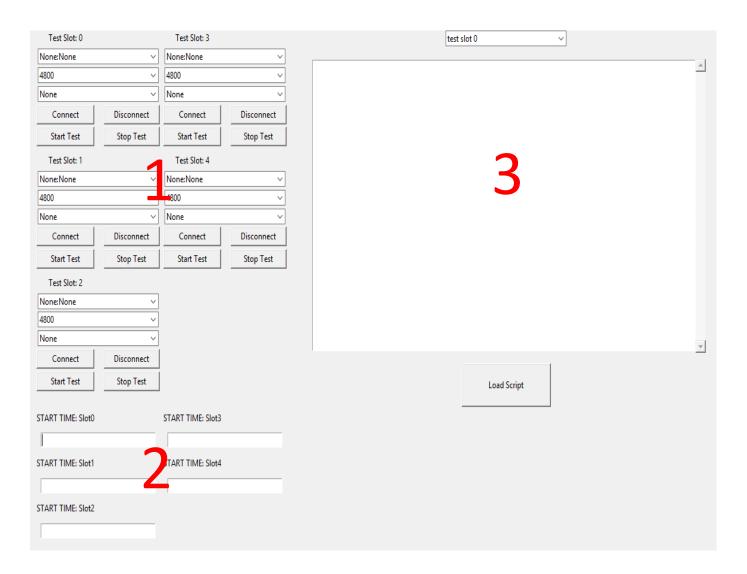


3.1 Applications

3.1.1 Power Switch



4. Test Slot

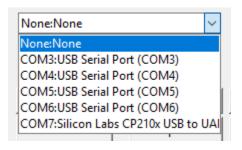


• 1

Label: number of slot means the number of power switch.

Test Slot: 0

> **STEP1:** choose the com port.



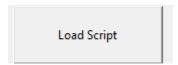
> **STEP2:** choose the baud rate



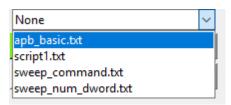
> **STEP3:** press the button "Connect" for connecting the board. If connect, successfully.



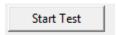
> STEP4: press the button "Load Script" for loading the script we want to run.



If load, successfully, the files will be shown in the combo box.



> STEP5: choose a file we want to run and press the button "Start Test".



> **STEP6:** press the button "**Stop Test**", when you want to terminate the test. If stop, successfully.



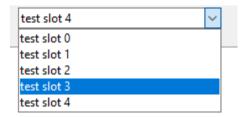
• 2

> Check the start running time of test.



• 3

> Choose the test slot you want to check from combo box.

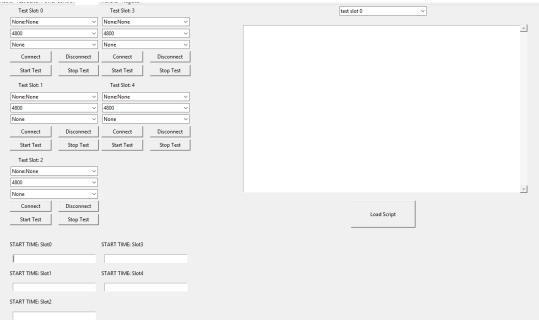


Then, the content of slot you choose will show in the text box.

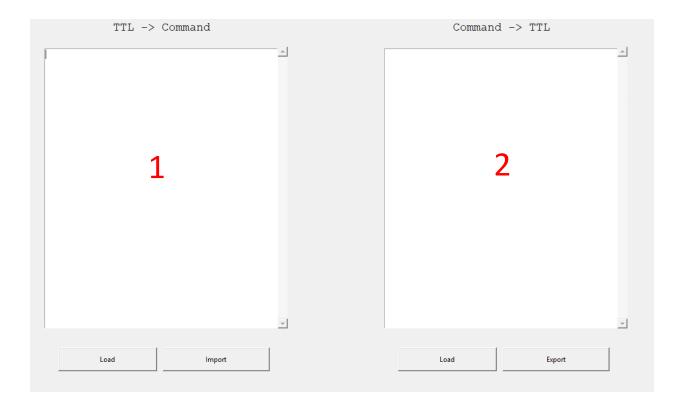


4.1 Applications

4.1.1 Run the Multiple Scripts



5. Transfer



• 1

- ➤ Load the TTL script and transfer to regular command.
- > **STEP1:** press the button "Load" for loading TTL script.



> STEP2: After loading the TTL script, the content of TTL script will show in the text box.

```
Mair Deliliniah
                                                   sendln '2C MEM COPY A00000 A80000 40000 20'
wait 'BerlinDiag>'
sendin 'MEM COPY B00000 B80000 40000 20'
wait 'BerlinDiag>'
sendln 'WAIT2C 30 3'
wait 'BerlinDiag>'
sendln 'WAIT2C 30 2'
wait 'BerlinDiag>'
sendln 'WAIT2C 30 1'
wait 'BerlinDiag>'
sendln 'SUM READ'
wait 'BerlinDiag>'
sendln 'ADC TEMP'
wait 'BerlinDiag>'
       call mtest_off
; cpu vdec x 2 + cbyte + v4g
sendin '4C CPU VDEC 50'
wait 'BerlinDiag>'
sendln '3C MEM CBYTEO2 700000 800000 50'
wait 'BerlinDiag>'
sendln '2C VDEC DECV2G 20'
wait 'BerlinDiag>'
sendln 'CPU VDEC 50'
wait 'BerlinDiag>'
sendln 'WAIT2C 30 3'
wait 'BerlinDiag>'
sendln 'WAIT2C 30 2'
```

> **STEP3:** press the button "**Import**" for transferring the TTL script to command and save the result in certain folder.



• 2

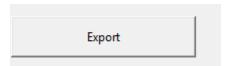
- ➤ Load the command script and transfer to TTL script.
- > **STEP1:** press the button "Load" for loading command script.



> **STEP2:** After loading the command script, the content of command script will show in the text box.



> STEP3: press the button "Export" for transferring the command to TTL script and save the result in certain folder.



5.1 Applications

5.1.1 TTL / Command Convert



6. Register



> **STEP1:** press the button **"Load"** for loading the certain register file.



> **STEP2:** the information will show in the text box.

```
## test1 ##
## number of register = 10 ##

0x55667788
0xAABBCCDD
0x11223344
0x22334455
0x66778899
0x33445566
0x44556677
0x55667788
0x77889900
0x8899AABB
```

6.1 Applications

6.6.1 Load the txt file of Register

Load

```
## test1 ##
## number of register = 10 ##

0x55667788
0xAABBCCDD
0x11223344
0x22334455
0x66778899
0x33445566
0x44556677
0x55667788
0x77889900
0x8899AABB
```