



Configure and Start TRACE32 from Python

2023-03-22 - Comments (7) - Debug

Since 2020, Python programs can control TRACE32 via the `lauterbach-trace32-rcl` module (`pyrcl`). Up to now, TRACE32 must be started using a config file, which requires familiarization with the TRACE32 configuration file syntax or the use of the configuration tool `t32start.exe`. Now Lauterbach offers a new `lauterbach-trace32-pystart` module (`pystart`) which allows the configuration and start of TRACE32 directly from Python. See example below.

Beta testers can install `pystart` by using `pip install --upgrade lauterbach-trace32-pystart``. The documentation is available for download below under "Attachments".

For feedback and questions, please contact support@lauterbach.com (include "pystart" in the subject).

Supported host OSes: Windows, Linux, MacOSX.

Example for starting TRACE32 PowerView for TriCore using a Python script:

```
import lauterbach.trace32.pystart as pystart

import sys

debugger_node_name = sys.argv[1]

pystart.defaults.system_path = r"C:\T32"

powerview =
pystart.PowerView(pystart.UDPConnection(debugger_node_name),
"t32mtc")
powerview.title = f"TRACE32 PowerView for TriCore 0 at PowerDebug Pro
{debugger_node_name}"
powerview.id = "T32_tc0"

powerview.start()
```

```
powerview.wait()
```

Example for starting TRACE32 PowerView for TriCore using a config file and the command line:

```
; classic TRACE32 configuration file
```

```
OS=
```

```
ID=T32_tc0
```

```
SYS=C:\T32
```

```
PBI=
```

```
NET
```

```
NODE=${1}
```

```
SCREEN=
```

```
HEADER=TRACE32 PowerView for TriCore 0 PowerDebug Pro ${1}
```

```
; host OS command line
```

```
t32mtc.exe debugger_node_name
```

Attachments

- [lauterbach_trace32_pystart_v0_1_6_documentation.zip \[2.82 MB\]](#)
- [lauterbach_trace32_pystart_v0_1_6_examples.zip \[9.26 KB\]](#)
- [lauterbach_trace32_pystart_v0_1_7_documentation.zip \[2.82 MB\]](#)
- [lauterbach_trace32_pystart_v0_1_7_examples.zip \[9.26 KB\]](#)
- [lauterbach_trace32_pystart_v0_2_0_documentation.zip \[2.91 MB\]](#)
- [lauterbach_trace32_pystart_v0_2_0_examples.zip \[9.31 KB\]](#)

Comments (7)

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W(**Wilson Mark (ETAS-VOS/XEO-ARC9)**

1 year ago

This is excellent! I really appreciate the work Lauterbach has done for adding Python support.

壮 壮徐

6 months ago

Now I can start trace32 through python. Next, I want to run a cmmm script after starting and automatically click a function button in the script. Please tell me how to do it, thank you very much!



Wafi Jmal

6 months ago

Hello, To execute a CMM script through a Python script, you can use the "cbg.cmm()"function. Please refer to this for more information: ([~\demo\api\python\rcl\doc\html](#)) Additionally, you can modify the CMM script to accept parameters, which may help resolve the issue related to the button execution. Regards ,Wafi

A Ayush

5 months ago

How to execute a cmm script using python. I am not able to find any function after launching trace32 from Powerview.



Wafi Jmal

5 months ago

To execute a CMM script you should use `dbg.cmm ()` function

This example will help in this case:

```
import lauterbach.trace32.rcl as t32api
# Connect to the Trace32 debugger
dbg = t32api.connect()
# Execute the CMM script using the dbg.cmm
dbg.cmm(r"D:\debug\T32\program.cmm")
```

Best Regards

Wafi

YG Yash Goyani

3 weeks ago

Hello, Thank you for adding `pyrcl` and `pystart` for Trace32 python integration. As I understand `pystart` only launch Trace32 on machine where python script is executing, is there any way where I can launch Trace32 on different machine on same LAN? Consider a scenario where I

need to automate a script execution on remote machine on same LAN. I want to first start a Trace32 instance and a simulator inside that instance on remote machine. After that I want to connect to it via remote api pyrcl from my machine and execute script. Is it possible to archive this without any physical access to remote machine?



Wiem Wala Benayed

2 weeks ago

You can execute the script that launch TRACE32 in the remote machine using ssh:

```
ssh user@remote_ip "python3 -u -" < script.py #if the script in the local machine
```

or

```
ssh user@remote_ip "python3 /path/to/script.py" #if the script in the remote machine
```

Please note that currently, it is possible to access TRACE32 via API from a remote machine.

However, we plan to change this approach in the future, and an option will need to be specified to enable remote access.

For this a trace32-pystart will be updated to be able to allow remote access.