



Configure and Start TRACE32 from Python

2023-03-22 - Comments (5) - 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 (5)

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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

5 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

5 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

4 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

4 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