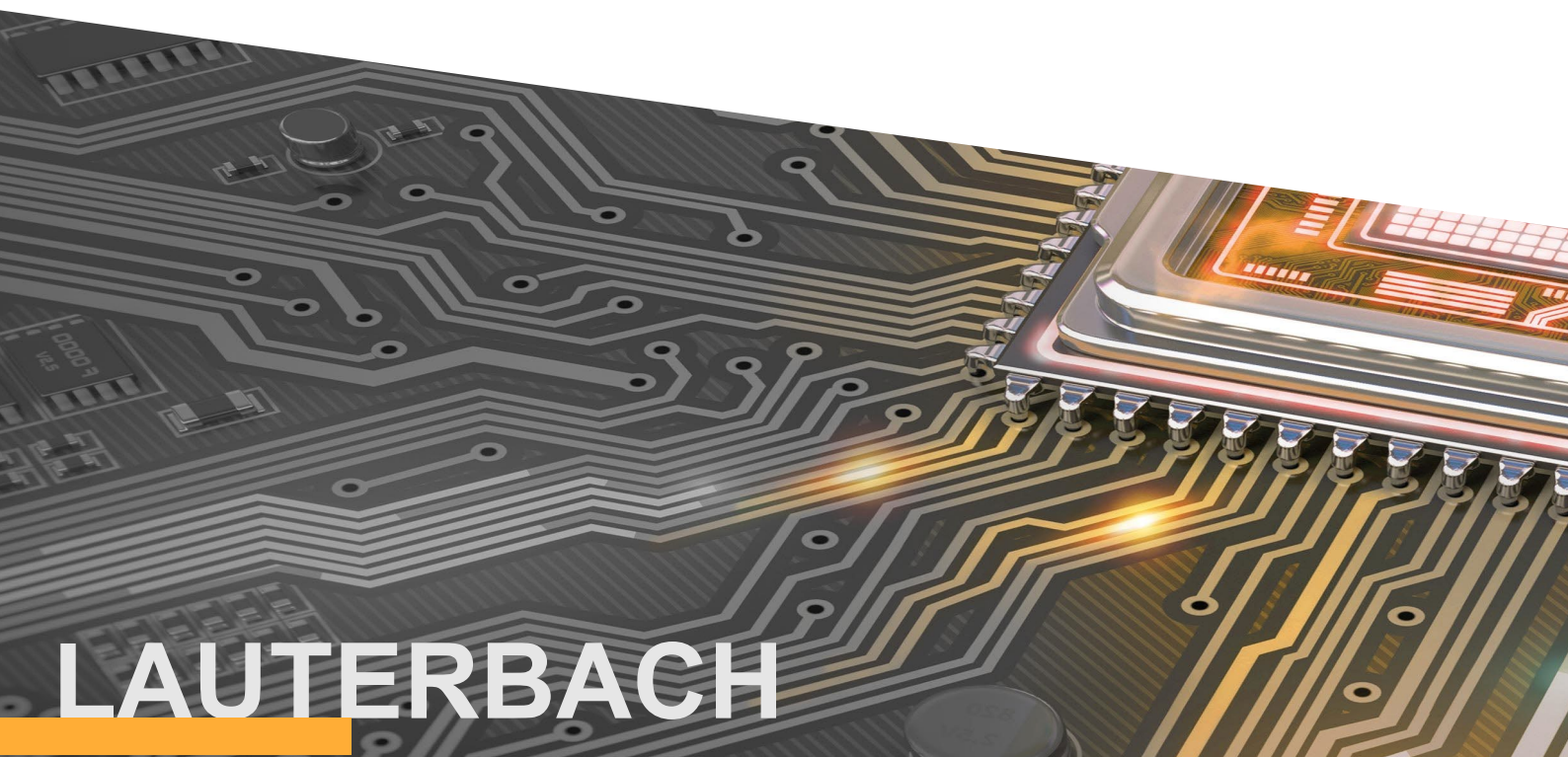


Update of MCDS Control

18-Feb-2022





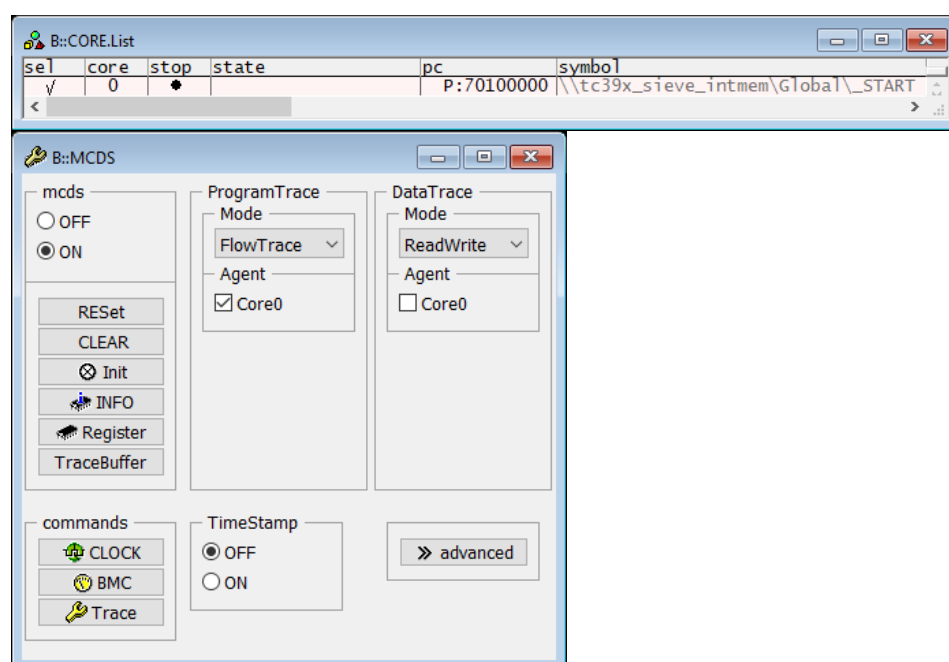
In preparation for trace support for the AURIX TC4x, Lauterbach has redesigned the commands for MCDS control. The goal was intuitive operation despite increasingly complex MCDS resources. While the previous operating concept allowed a direct setting of the MCDS resources by TRACE32 commands, the new operating concept focuses on the requirements of the trace user and relieves him from implementation details.

The following applies to the AURIX™ TriCore™ TC3x and in the future to the TC4x.

1 Trace control in TRACE32 instance/GUI

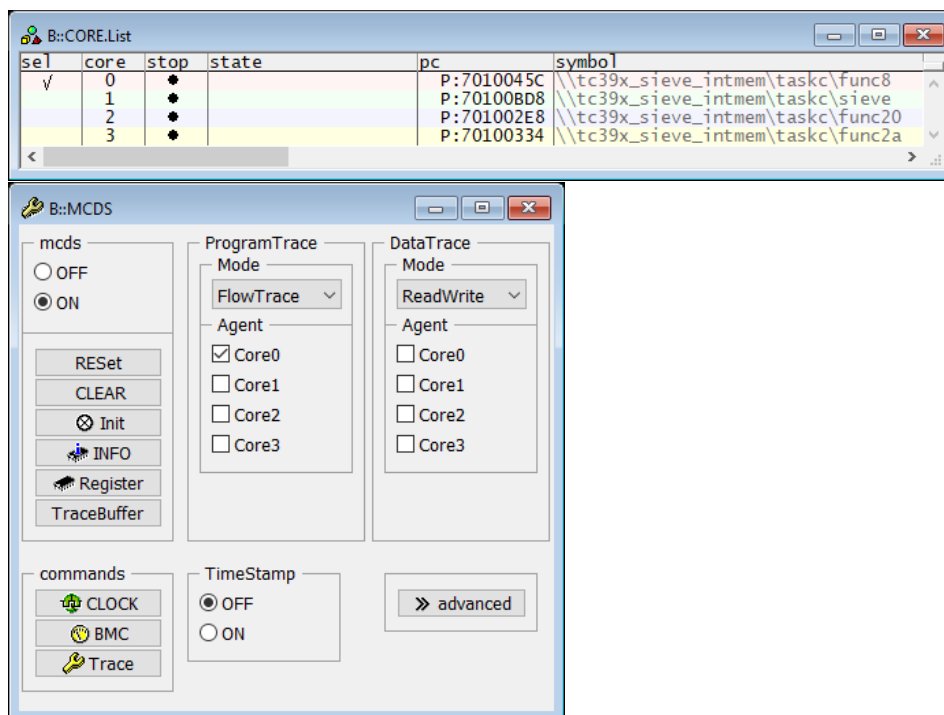
The new MCDS commands in a TRACE32 instance/GUI always control the trace recording for the cores that are debugged via this instance.

Example 1: TRACE32 instance is setup to debug a single core.





Example 2: TRACE32 instance is setup to debug 4 cores.

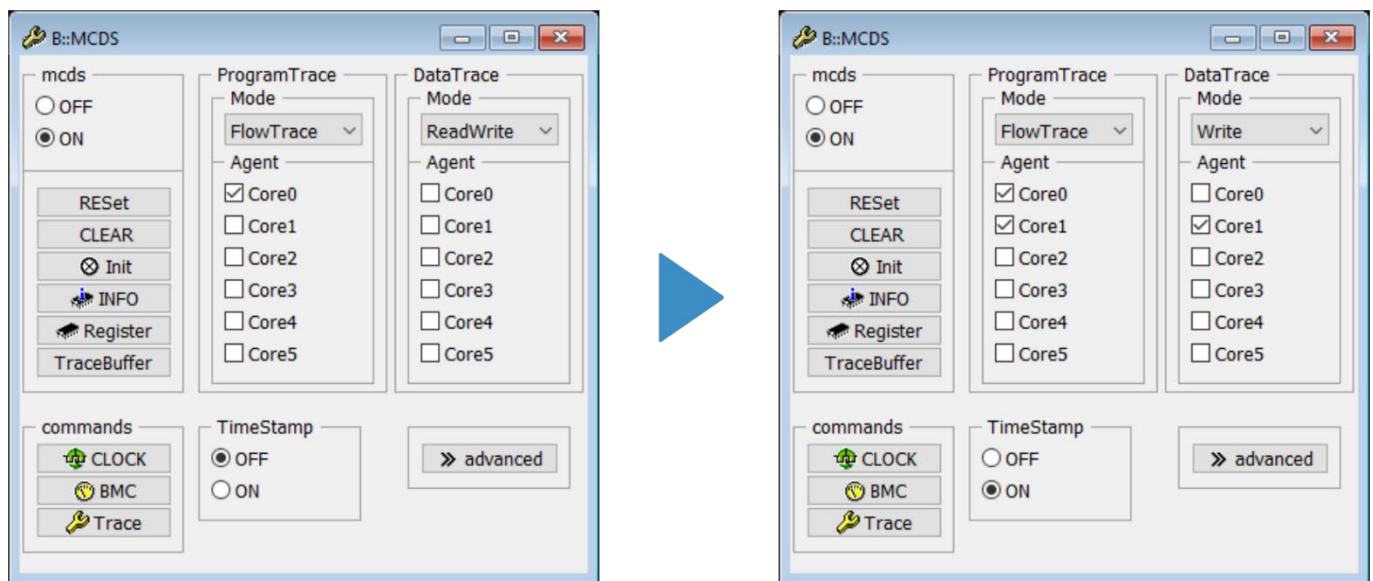


The mapping of the settings of the individual instances to the MCDS resources is done by TRACE32. If the MCDS resources are exhausted, an error message is displayed when the next command is entered.



2 Example for new syntax

In accordance with the TRACE32 user philosophy, GUI controls in TRACE32 windows are labeled in such a way that the command syntax can be derived directly from them. To get familiar with the new commands just open the MCDS .state window. Here is a little example:



```
MCDS.ProgramTrace.Agent Core0 Core1
MCDS.ProgramTrace.Mode FlowTrace

MCDS.DataTrace.Agent Core1
MCDS.DataTrace.Mode Write

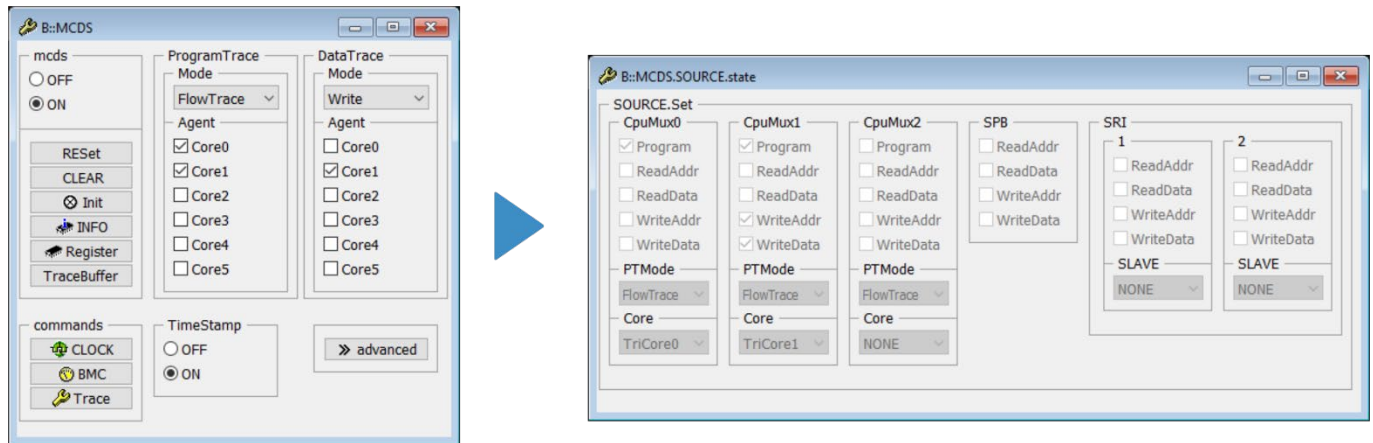
MCDS.TimeStamp ON
```

Since the new syntax abstracts the MCDS control from the resources and takes a more user-oriented view, a 1:1 conversion of the old syntax, which was strongly oriented towards the MCDS resources, is not possible.



3 Comparisons to the previous MCDS settings

If you use the new control syntax you can use the `MCDS.SOURCE.state` command to see how the MCDS state window would have looked like in the past.



4 Backward compatibility

Scripts that TRACE32 users have created for the AURIX TC3x can continue to be used in the long term. For the AURIX TC4x, the new commands will have to be used in the future.

Please be aware that the deprecated MCDS control commands have no effect on the `MCDS.state` window, because the deprecated commands cannot be mapped 1:1 to the new ones. However, you can use `MCDS.SOURCE.state` to check the MCDS setup.

5 Full documentation of updated MCDS control

More documentation for the updated MCDS control is planned for the TRACE32 Release 09/2022.