Renesas PD30/308 Emulator

Abstract

This document describes tips and hints for using the Renesas PD30 and PD308 emulator or simulator as target system. PD30 supports M16C controllers and PD308 supports M32C controllers. This document refers to both debuggers using the name PD30.

***Please note**: PD30 requires the PDCOM interface to be installed. Also mind the special handling to continue the test execution, as this is different compared to other target systems.*

There may also be problems within PD30, if the name of the executable exceeds a certain size (e.g. path and file name longer than 120 characters). The actual name of the executable depends on the root directory of the PDB file, the project, module and test object name. In case of problems, choose a shorter root directory or shorter project/module names.

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Razorcat Development GmbH

Witzlebenplatz 5 · 14057 Berlin · Tel. +49 (0) 30 - 536 357 - 0 · Fax +49 (0) 30 - 536 357 – 60

support@razorcat.com

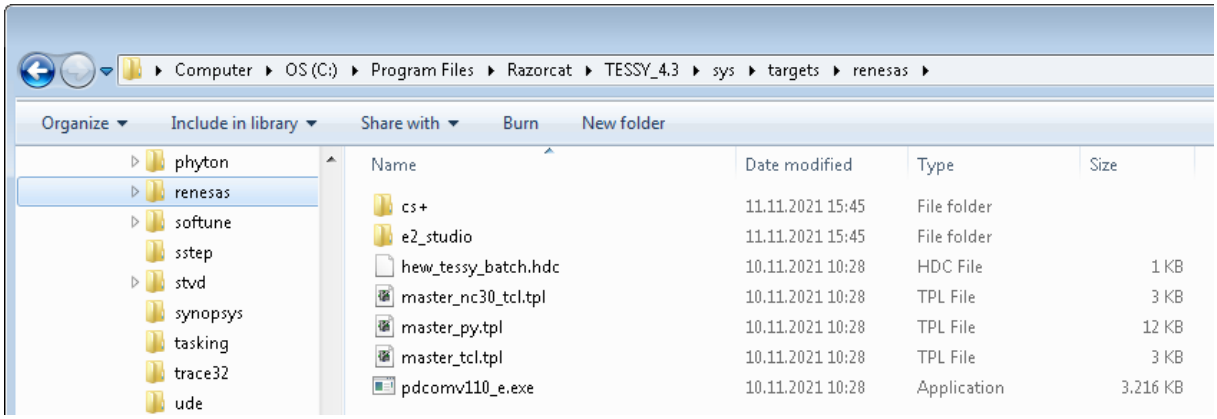
1 Renesas PD30/308

The integration with the PD30 debugger uses the COM interface of the debugger which need to be installed separately. The necessary setup is available within the TESSY installation.

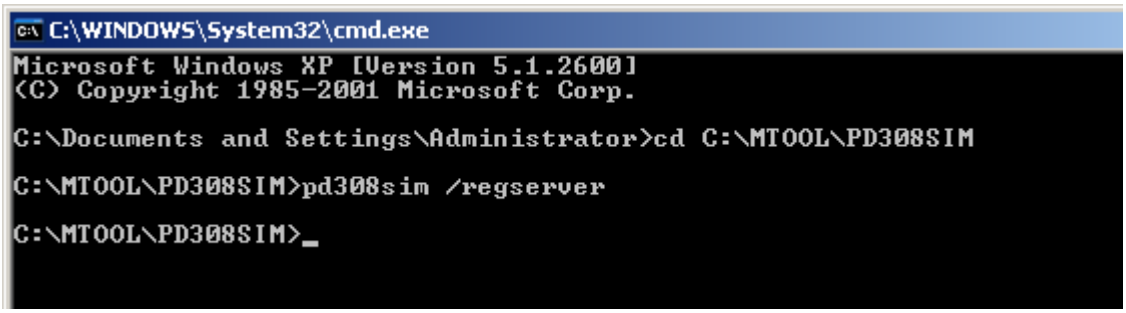
The PD30 debugger need to be started before running the test with TESSY. TESSY will then connect to the running instance of PD30.

1.1 COM Setup

The PDCOM software needs to be installed in order to connect TESSY and PD30 for test execution.



You just need to run the above **pdcomv110_e.exe** setup file to install the PDCOM interface. After finish of the installation, you need to register the COM server by typing the following commands within a command window:

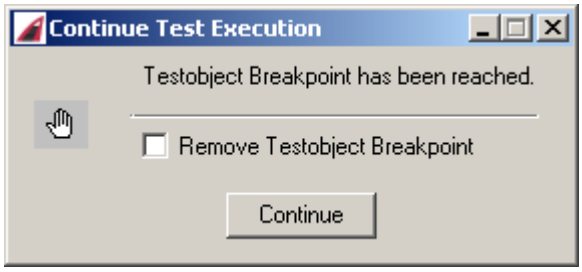


Change to the directory of your PD30 installation and execute the PD30 binary with the option **/regserver**.

Razorcat Development GmbH
Witzlebenplatz 5 · 14057 Berlin · Tel. +49 (0) 30 - 536 357 - 0 · Fax +49 (0) 30 - 536 357 – 60
support@razorcat.com

2 Test object breakpoint

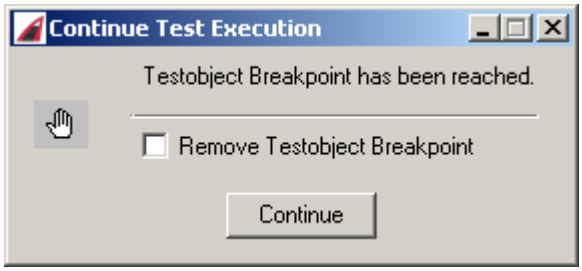
When you selected to stop at the test object within the **Execute Test** dialog and the test execution reaches the test object breakpoint, the **Continue Test Execution** dialog will be displayed as shown below.



When you change to the PD30 window, the program should have stopped at the current test object. You may now step through the test object and use all the available features of the debugger.

3 Continue test execution

To continue test execution, you need to press the **Continue** button of the **Continue Test Execution** dialog.



***Please note**: Pressing the 'Go' button of the PD30 toolbar will void the synchronization between TESSY and PD30. You would have to close PD30 and abort the test within TESSY in this case.*

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