FAQ 408

Handling gaps in Data Measured with ControlDesk Next Generation

Keywords
ControlDesk Next Generation; measurement; gaps

Question
I am observing gaps in a measurement or recording performed with ControlDesk Next Generation. In an exported MAT file, it seems that data points are missing. Why does this happen and how can I solve the problem?

Solution
Usually, the reason for gaps in the measurement data is the default setting for data acquisition for dSPACE platforms: triggered mode.

With the default settings for ‘auto repeat’ (active) and ‘platform trigger’ (not defined, therefore always TRUE), this type of recording works as follows:

Data is acquired for the duration of the duration trigger of the raster used for the measurement. Then the data acquisition is stopped, the data is processed, and the acquisition is started again.

As a consequence, the measured data always has gaps.

Use the methods described below to solve the problem.
Method 1

To achieve a continuous data acquisition without gaps, activate the continuous mode for the relevant raster by selecting Activate Continuous Mode (Disables triggers) from the context menu of the platform’s raster in the measurement configuration.

- In ControlDesk Next Generation 5.1, both options are always black regardless of which one is active.
- As of ControlDesk 5.1, the options are called Measure Continuously (Disables Triggers) and Measure Triggered (Enables Triggers and Restarts Rasters).
Method 2

Alternatively you change the default of newly added platforms to continuous mode

Options ► Measurement Configuration ► Measure continuously on newly added dSPACE platforms

This option is activated by default from ControlDesk 6.0 (dSPACE Release 2016-B) on.

Related Documents

- ControlDesk Next Generation - Measurement and Recording Tutorial (available since Release 7.3)

Related FAQs

- FAQ 400 ControlDesk Next Generation - No data are visible in the plotter

FAQ Overview

http://www.dspace.com/go/faq

Support

To request support, please use the form at http://www.dspace.com/go/supportrequest

Updates and Patches

Software updates and patches are available at http://www.dspace.com/go/patches. dSPACE strongly recommends to use the most recent patches for your dSPACE installation.

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