

Export_Data_To_Matlab

THIS COMMAND DOES NOT WORK IN ANY VERSION OF MATLAB NEWER THAN Matlab R13.
 Use the [Export_Data_To_Matfile](#) command instead

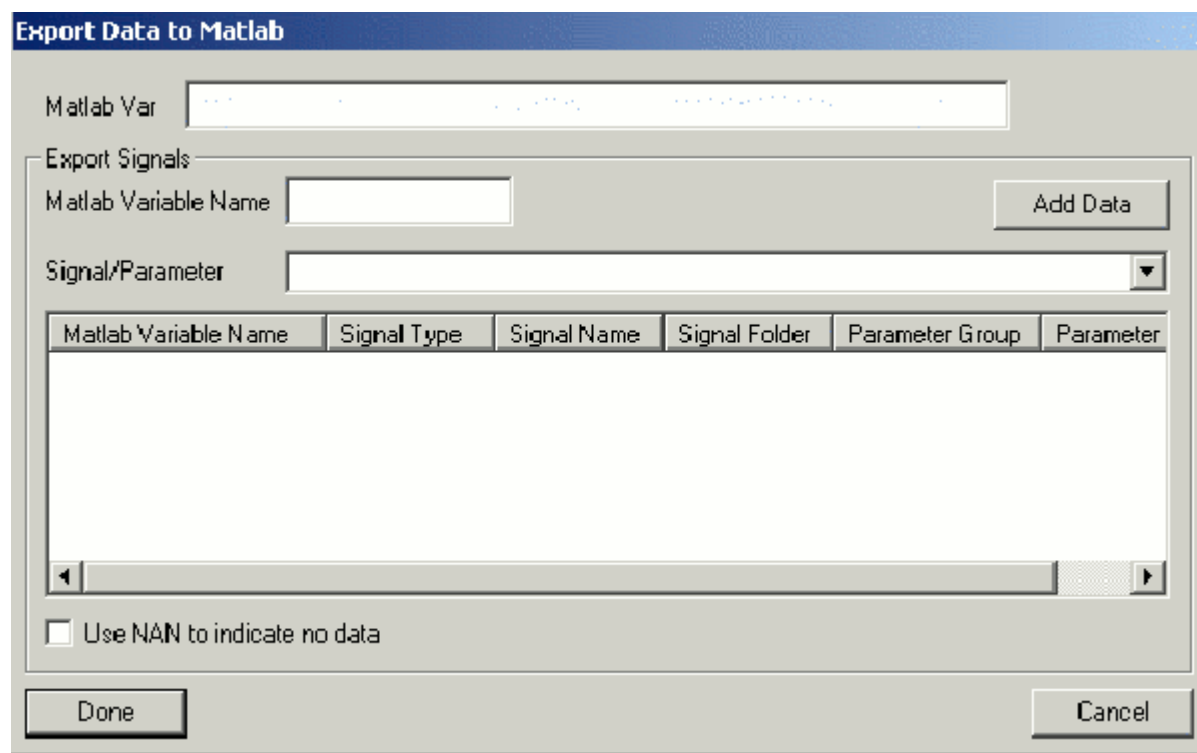
Visual3D will use DCOM to push signal directly in the Matlab Workspace without having to save the m-file. This command is different from [Put_To_Matlabe](#) because it allows the data to be exported from all ACTIVE_FILES. This is possible because it uses a Matlab struct_array to store the data.

Export_Data_To_Matlab

/MATLAB_ITEM_NAME=	the name of the struct_array in Matlab
/SIGNAL_TYPES=	the Visual3D Types
/SIGNAL_NAMES=	the Visual3D Names
/SIGNAL_FOLDER=	the Visual3D Folders
/OUTPUT_NAMES=	the names of the signal within the struct array
/PARAMETER_GROUPS	the C3D Parameter Group
/PARAMETER_NAMES=	the C3D Parameter Name
/OUTPUT_PARAMETER_NAMES=	the Matlab name for the C3D Parameter
/USE_NAN_FOR_DATANOTFOUND=	DATANOTFOUND is the Visual3D name for a missing signal.

For example, export 3 TARGETS (LFT1, LFT2, LFT3) from Visual3D to Matlab.

Invoke the Pipeline Edit Dialog



Add the name of the Matlab struct array and the first TARGET. Select the Add Data button

Export Data to Matlab

Matlab Var:

Export Signals

Matlab Variable Name: Add Data

Signal/Parameter:

Matlab Variable Name	Signal Type	Signal Name	Signal Folder	Parameter Group	Parameter
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☐ Use NAN to indicate no data

Done Cancel

Add the remaining 2 signals

Export Data to Matlab

Matlab Var:

Export Signals

Matlab Variable Name: Add Data

Signal/Parameter:

Matlab Variable Name	Signal Type	Signal Name	Signal Folder	Parameter Group	Parameter
O_LFT1	TARGET	LFT1	ORIGINAL		
O_LFT2	TARGET	LFT2	ORIGINAL		
O_LFT3	TARGET	LFT3	ORIGINAL		

☐ Use NAN to indicate no data

Done Cancel

The text version of the pipeline command should look like this:

Export_Data_To_Matlab

/MATLAB_ITEM_NAME=	TEST
/SIGNAL_TYPES=	TARGET+TARGET+TARGET
/SIGNAL_NAMES=	LFT1+LFT2+LFT3
/SIGNAL_FOLDER=	ORIGINAL+ORIGINAL+ORIGINAL

/OUTPUT_NAMES=	O_LFT1+O_LFT2+O_LFT3
/PARAMETER_GROUPS	
/PARAMETER_NAMES=	
/OUTPUT_PARAMETER_NAMES=	
/USE_NAN_FOR_DATA_NOT_FOUND=	TRUE

Execute the command with 4 active files in the Visual3D Workspace.

Matlab should contain the following struct_array

» TEST

TEST =

ANALOG_VIDEO_FRAME_RATIO: {4×1 cell} FRAME_RATE: {4×1 cell} FILE_NAME: {4×1 cell} O_LFT1:
{4×1 cell} O_LFT2: {4×1 cell} O_LFT3: {4×1 cell}

» TEST.O_LFT1

ans =

[230×5 double] [231×5 double] [220×5 double] [211×5 double]

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