Step by Step guide to add a new fit model function into the GPUFIT

GitHub repository: https://github.com/gpufit/Gpufit

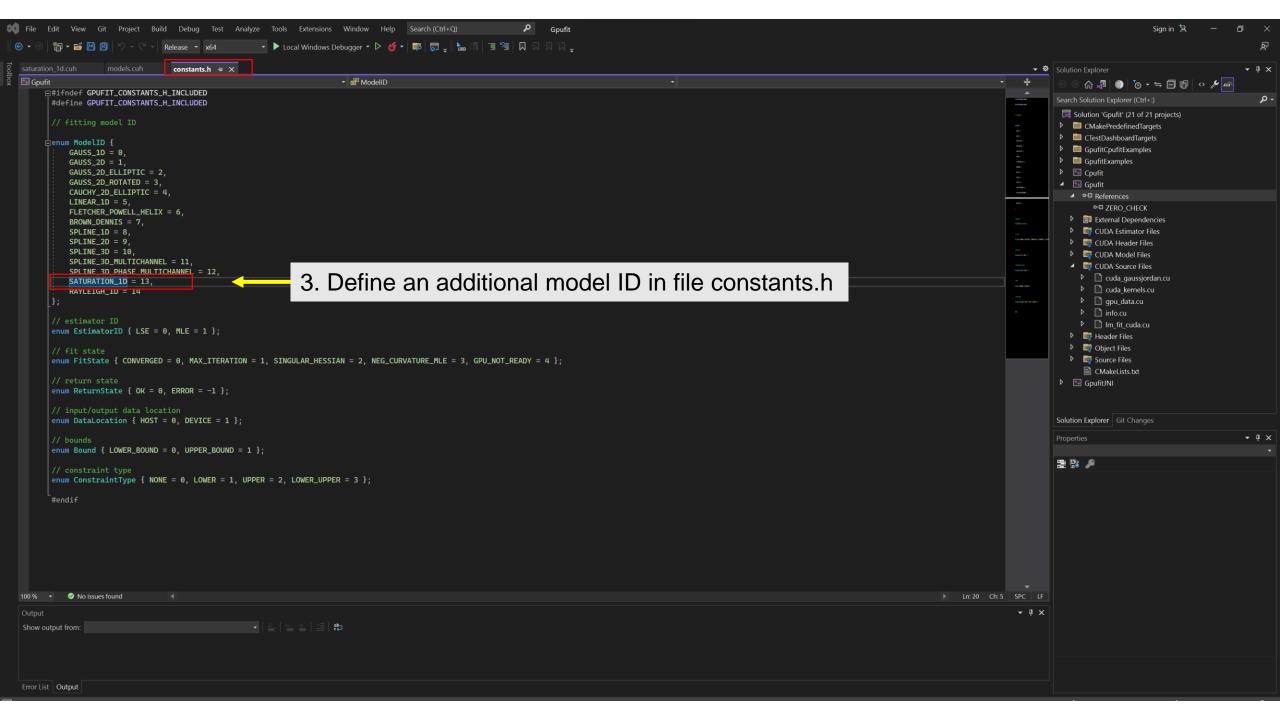
Documentation https://gpufit.readthedocs.io/en/latest/index.html

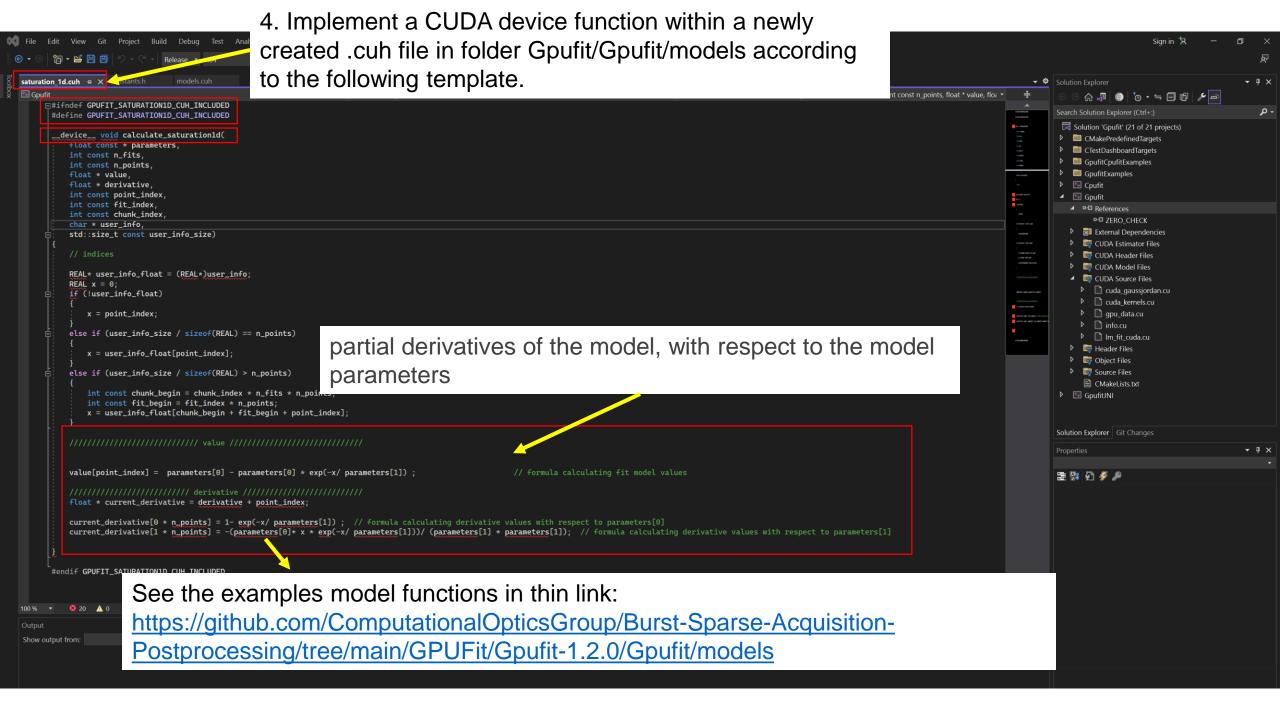
Steps:

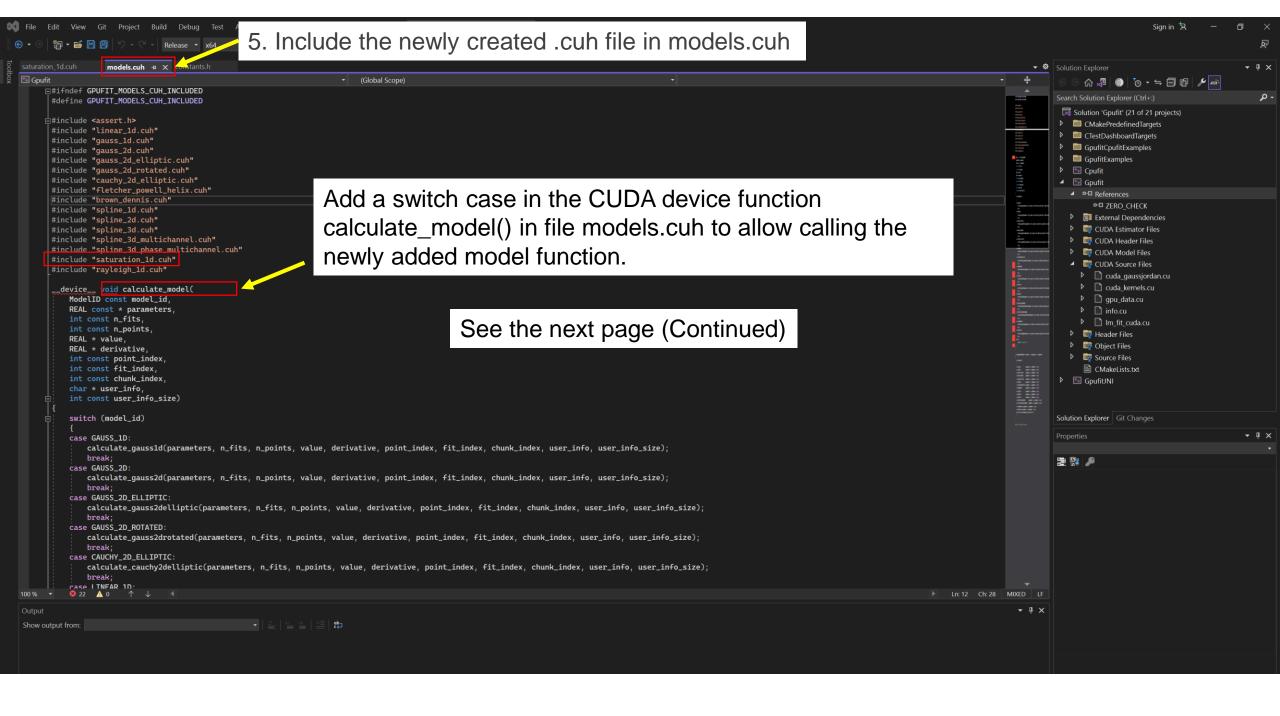
1. Download CUDA

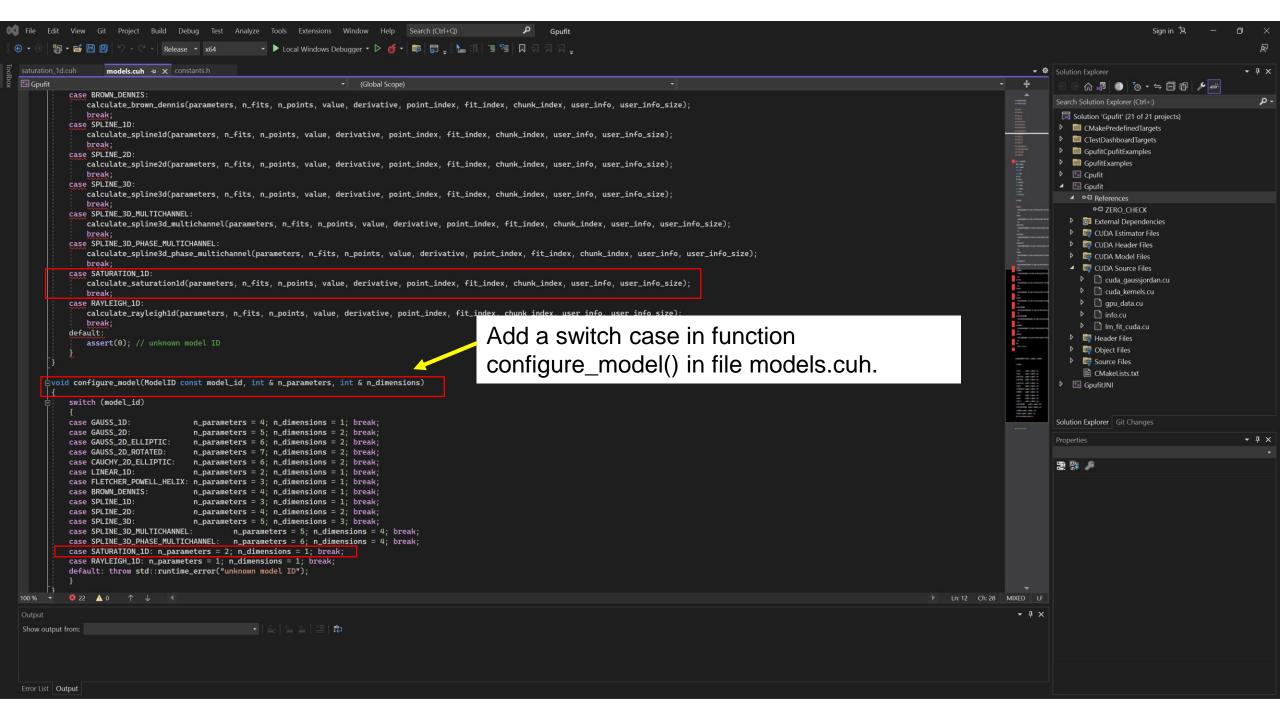
CUDA Toolkit 6.5 or later (tested with 6.5-11.4)

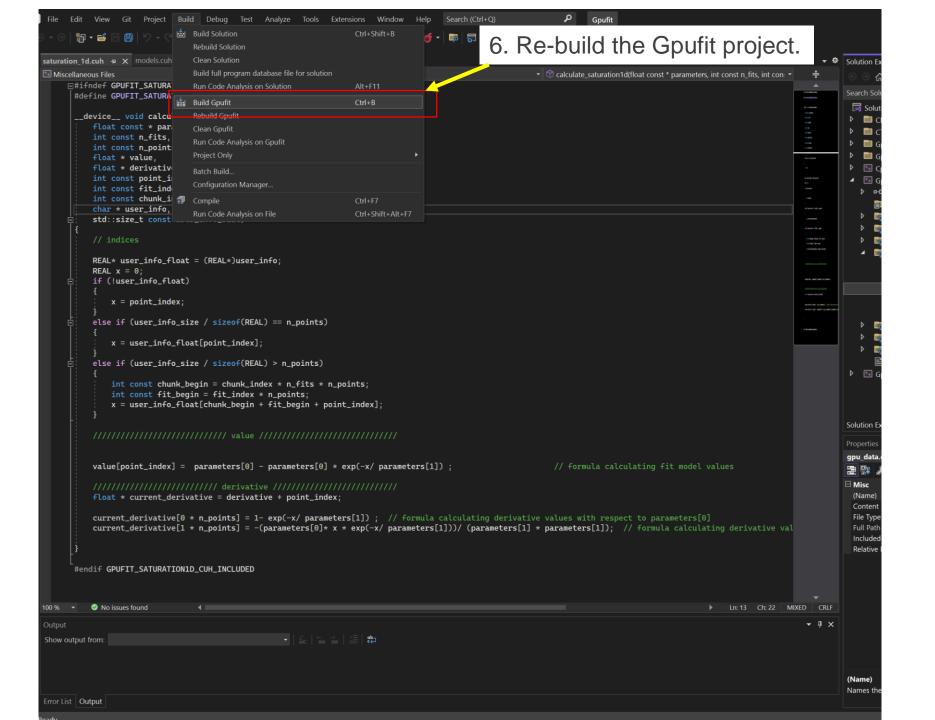
2. Download Visual Studio 2022











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Burst-Sparse-Acquisition-Postprocessing / VLIV / pygpufit / gpufit.py
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        Blame 323 lines (262 loc) · 13.9 KB
Code
         cuda available func = lib.gpufit cuda available
        cuda_available_func.restype = c_int
        cuda_available_func.argtypes = None
        # gpufit get cuda version function in the dll
        get_cuda_version_func = lib.gpufit_get_cuda_version
        get_cuda_version_func.restype = c_int
        get_cuda_version_func.argtypes = [POINTER(c_int), POINTER(c_int)]
        class ModelID:
            GAUSS_1D = 0
            GAUSS 2D = 1
            GAUSS_2D_ELLIPTIC = 2
            GAUSS_2D_ROTATED = 3
            CAUCHY 2D ELLIPTIC = 4
            LINEAR_1D = 5
            FLETCHER POWELL = 6
            BROWN_DENNIS = 7
                                          Add the model ID in file gpufit.py
            SPLINE 1D = 8
            SPLINE_2D = 9
            SPLINE_3D = 10
            SPLINE_3D_MULTICHANNEL /= 11
            SPLINE_3D_PHASE_MULTCHANNEL = 12
            SATURATION_1D = 13
         class EstimatorID:
            LSE = 0
            MLE = 1
```