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#Function definition to set up default settings
def DefaultSettings():
    #How many cores to be used (monitor memory consumption)
    CPUs = 3
    #(int)

    #Is it a big problem (more memory efficiency but slower)
    BigProblem = False
    #(boolean)

    #How many snapshots should be taken
    PODPoints = 13
    #(int)

    #Tolerance to be used in the TSVD
    PODTol = 10**-4
    #(float)

    #Use an old mesh
    OldMesh = False
    #(boolean) Note that this still requires the relevant .geo file to obtain
    #information about the materials in the mesh

    return CPUs, BigProblem, PODPoints, PODTol, OldMesh

def AdditionalOutputs():
    #Plot the POD points
    PlotPod = False
    #(boolean) do you want to plot the snapshots (This requires additional
    #calculations and will slow down sweep by around 2% for default settings)

    #Produce certificate bounds for POD outputs
    PODErrorBars = False
    #(boolean)

    #Test where the eddy-current model breaks for the object
    EddyCurrentTest = False
    #(boolean)

    #Produce a vtk outputfile for the eddy-currents (outputs a large file!)
    vtk_output = False
    #(boolean) do you want to produce a vtk file of the eddy currents in the
    #object (single frequency only)

    #Refine the vtk output (extremely large file!)
    Refine_vtk = False
    #(boolean) do you want ngsolve to refine the solution before exporting
    #to the vtk file (single frequency only)
    #(not compatible with all NGSolve versions)

    return PlotPod, PODErrorBars, EddyCurrentTest, vtk_output, Refine_vtk

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