To Do List and Open Issues

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To Do

Read in simulation metadata

The data files necessary to make the code run are different depending on whether the code is running a 2- or 3-dimensional problem. The common files are:

- SimulationValues.txt
  - Mach number
  - Angle of Attack
  - Reynolds Number
- Sizes.txt
  - # of domain nodes (including body boundary nodes)
  - # of body boundary nodes
  - # of farfield boundary nodes
  - (Only in 3D code) # of symmetry nodes
  - # of cloud nodes per domain/body boundary node (for differential quadrature)
  - # of ghost nodes per body boundary node (for differential quadrature, should equal (cloud-1)/2)
  - # of extrapolation nodes per farfield boundary node
  - # of total nodes (= domain + farfield + ghost*body)

The current task is to write a subroutine to read those files. The subroutine should reside in a separate module, since file I/O is not inherently a SOMA-specific task.