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SPARTAN Aerodynamics

Calculate Flap Deflections Necessary for Trim

\caption{Surface triangulation of the Baseline SPARTAN.}

\label{fig:Pointwise}

\end{figure}

Trimmed Aerodynamic Coefficients

Add Propulsive Moment

Flap Deflection Aerodynamics

Remove Flowpath and Boattail Aerodynamics

Flight Condition:

M, AoA, Altitude, CG

\caption{Surface triangulation of the Baseline SPARTAN.}

\label{fig:Pointwise}

\end{figure}

Untrimmed Aerodynamics

\caption{Surface triangulation of the Baseline SPARTAN.}

\label{fig:Pointwise}

\end{figure}

If Scramjet Engines Off

If Scramjet Engines On

PS Solver

External Modules

Evaluation of Optimality ie.

Trajectory Data

Vehicle Data

New Iteration