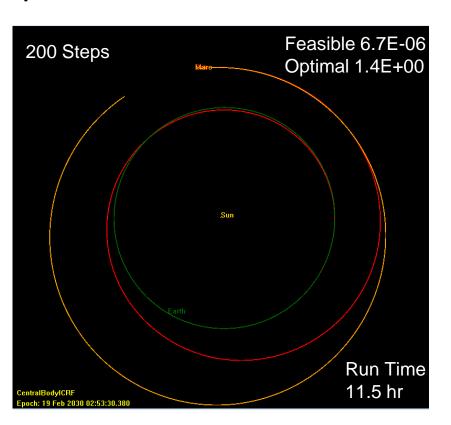
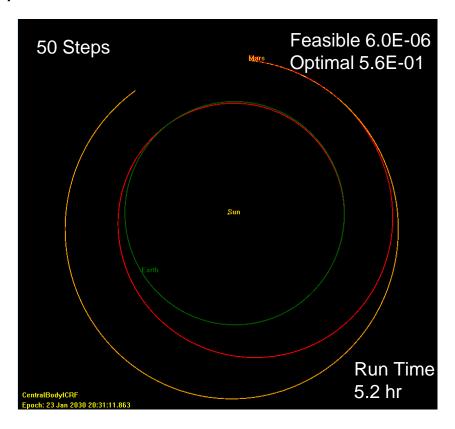
Progress on finalizing GMAT Low-Thrust Solving Function

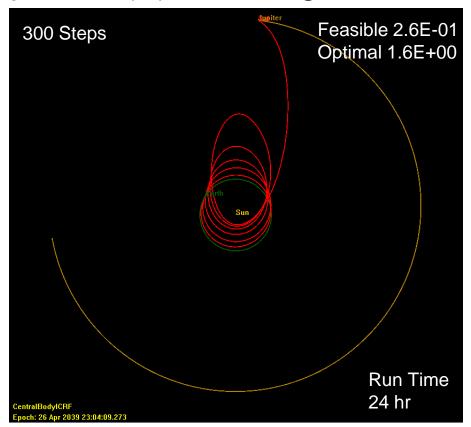
- Reduce the solver function to two files
- Standardized input options for the function
- Provide the option to run with or without optimization
 - Option to optimize for minimizing time of flight
 - Option to optimize for only achieving constraints
- Added supporting functions
 - Function to interpolate input data to increase or decrease the number of steps
 - Function that rewrites solver's input Excel sheet
 - Function that interprets design variable vector if SNOPT optimization is paused or prematurely terminated

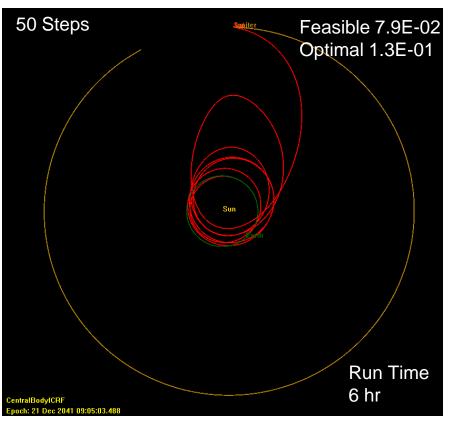
Number of Time Steps Comparison (Earth To Mars FFS problem ran for 1000 iterations)





Number of Time Steps Comparison (Earth To Jupiter FFS problem) (unconverged solution)



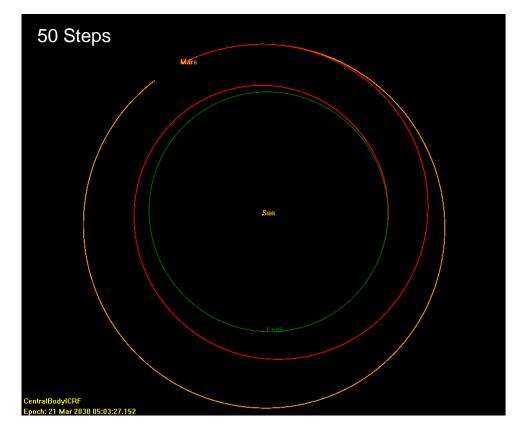


Running without Time of Flight Objective Function (Mars

Problem)

 Only minimize the constraints

- Run Time 55 minutes
 - Significant run time reduction
- Used as Initial guess for TOF optimization problem which only took an additional 2 hours to converge
- Norm of difference in final state vector: 3.3165512E-06



Running without Time of Flight Objective Function (Jupiter Problem)

- Smaller TOF than solutions where TOF was the objective function
- Run Time 16 hours
 - Prematurely terminated before finishing
- Norm of difference in final state vector: 2.6069424E-02

