

Aeroporto

Aeroport

Description

This section covers how to use the Aeroport application to import data tables into DSix. We begin by discussing the kind of data supported by Aeroport, and how the data is read from and written to a number of different formats. We then discuss custom Aeroport modules and how to implement them. Finally we explain how to get data into a DSix InfoFile from Aeroport.

What you will learn

Upon completion of this section, you will be able to:

- Import data from supported formats into Aeroport.
- Export data from Aeroport that can be read into a DSix InfoFile.

Outline

- ✈️ Aeroport Utility
- ✈️ Currently supported formats & examples
- ✈️ Working example
 - ✈️ Importing data tables from different formats
 - ✈️ Changing table names & indep. variable names
 - ✈️ Loading project to cross-check variable names
 - ✈️ Changing & sorting independent variable order
 - ✈️ Saving & loading workspace
 - ✈️ Exporting data
 - ✈️ Importing into DSix InfoFile.

Supported Formats

- ✈ BARMatlab (binary)
- ✈ BARMultiFile (used in DSix Infofile)
- ✈ BoeingSeattleTVP (*.tvp)
- ✈ Boeing StLouisCTAB (*.tab)
- ✈ D6Interchange (output from Dsix Infofile)
- ✈ Genesis (*.gen)
- ✈ IATA (*.ita)
- ✈ LockheedAtlasG (*.g)
- ✈ LockheedAtlasGMD (*.gmd)
- ✈ NASA Langley (*.fix)
- ✈ NavAir Manned Flight Simulator (*.mfs)

Example: Importing Data Tables

- ✈ Import
 - ✈ BizJet (Sample Model)
- ✈ Save Working

Example: Change Variable Names

- ✈ Change table names
 - ✈ DCm_adot to DCm_AOAdot
 - ✈ DCm_mach to DCm_Mach
- ✈ Load Project: BARJet.d6p
- ✈ Change independent variable names
 - ✈ SetName Alphas to AirDataOut_Alpha
 - ✈ Global SetName Mach to AirDataOut_Mach
- ✈ **Save Working**

Example: Rearranging Indep Variables

- ✈ Use Promote/Demote
- ✈ Autosort
- ✈ Importance of arranging the highest number of breakpoints into the first two indep variables for DSix InfoFile.
- ✈ **Save Working**

Example: Manipulating Look-up Variables

- ✈ Duplicate Table
- ✈ Copy Table
- ✈ Table Sorting Options
- ✈ **Save Working**

Example: Exporting to Different Formats

- ✈ Export to Matlab .mat (BAR structure) format
- ✈ Export to D6 Multi-File format

Example: Importing Tables into DSix InfoFile

- ✈ Import data in D6 Multi-File into DSix
 - ✈ Blank project
 - ✈ Import Text File



Flight Simulation Environment