I-DEAS® Data Translator, Unigraphics to/from I-DEAS

for importing and exporting data in the Unigraphics format

This I-DEAS® Data Translator provides for the bi-directional transfer of solid models between Unigraphics and I-DEAS software. The translator directly uses Unigraphics part geometry from the Parasolid kernel and creates an ASCII neutral file that can be used between the I-DEAS and Uni-graphics environments.

Solids read into I-DEAS software are complete and ready to be used for various purposes. They are ideal for use in I-DEAS Simulation, allowing for meshing of the volumes or surfaces or placing boundary conditions on the geometry. They can also be effectively used in the I-DEAS Master Modeler™ software. Such operations as sketch-in-place and joining or cutting new features are possible with the newly created solid.

Practical Usage

•Supplier Data Exchange: Companies using I-DEAS that need to exchange data with companies using Unigraphics, use the translator to exchange solids data between the two systems.
•Complement: Companies wanting to complement their existing Unigraphics system with I-DEAS, perhaps to evaluate how well I-DEAS will fit their needs, use the bi-directional capabilities of the translator.
•Migration: Companies migrating from Unigraphics to I-DEAS as their core design system can move all their existing solid designs into I-DEAS Master Modeler. Because the translator operates without the need for Unigraphics, this data exchange can take place even if Unigraphics does not exist at the engineering site.

User interaction

The translator is based on the Parasolid kernel and is independent of the Unigraphics environment. The user must have a valid license of Unigraphics and then can easily export a Parasolid part file.

The translator is designed to move solids data between the two systems; however, open surfaces may also be translated. Therefore, both sheet body and solid body parts in Unigraphics can be translated. This translator uses the Open I-DEAS tools, which help make the translation as integrated and efficient as possible.

The translator itself has some internal capabilities for cleaning the model to meet I-DEAS standards and also utilizes I-DEAS own internal geometry cleaners.

It produces pertinent information about the quality of translation. An ASCII neutral file is produced which can be moved to the I-DEAS environment, if necessary. Upon reading into I-DEAS, the model can be stitched into a valid solid, or read in as a non-stitched group of entities and stitched later within I-DEAS.

For returning to Unigraphics, the user simply creates a Unigraphics Parasolid part file directly from the File, Export menu within I-DEAS. This can be read directly into Unigraphics.

Technical Specifications or Restrictions

•Unigraphics is not required.
•Processing information includes Unigraphics model statistics, including curve, surface, sheets, and solids entities being translated.
•Bi-directional in and out of I-DEAS.

Hardware

Available on HP, SGI, Sun, and IBM

Prerequisite

Core Master Modeler
-or-
I-DEAS Product Design Package
-or-
I-DEAS Artisan™ Package

For More Information

For more information, contact your local SDRC representative or call 1-800-848-7372.