

Support Sheet: Conversion Settings for Catia IGES

The following is a list of recommended settings for Catia that have been determined to give the best results when passing data from Catia to SolidWorks through the IGES file format.

The Catia IGES translator is based on IBM IGES Format (IIF). When you save a Catia model as an IGES file, it undergoes two translations:

Catia=>IIF=>IGES.

The IIF=>IGES step is done by the igesp program. This program has two parameters which affect the accuracy of the model and therefore affect the reliability of the stitching process into SolidWorks. You can modify these values as follows:

Edit the file igesinp.data. The two parameters which can be changed are as follows:

SIGFIG COEF n
SIGFIG CORD n

Where n is the number of significant digits. The default values are 8 and 6. The range of values are from 5 to 14. The recommended values are 14 and 14.

For those who wish to know the nitty-gritty technical details, read on....

COEF indicates the maximum number of significant digits in the IGES file for a real number that is a coefficient of an equation. The default is 8; the minimum is 5; the maximum is 14. CORD indicates the maximum number of significant digits in the IGES file for a real number that is a coordinate. The default is 6; the minimum is 5; the maximum is 14.

That is why you have, in the CATIGE panel, the option between IGES or IIF. You can obtain either an IGES file format or an IIF file format (IIF format is not a text representation (it's binary) and you can not see it with a text editor, but you can use it with other IBM products).

By using the maximum values for these parameters, the size of the IGES file can be very big, but you will have better success "knitting" them within SolidWorks.

