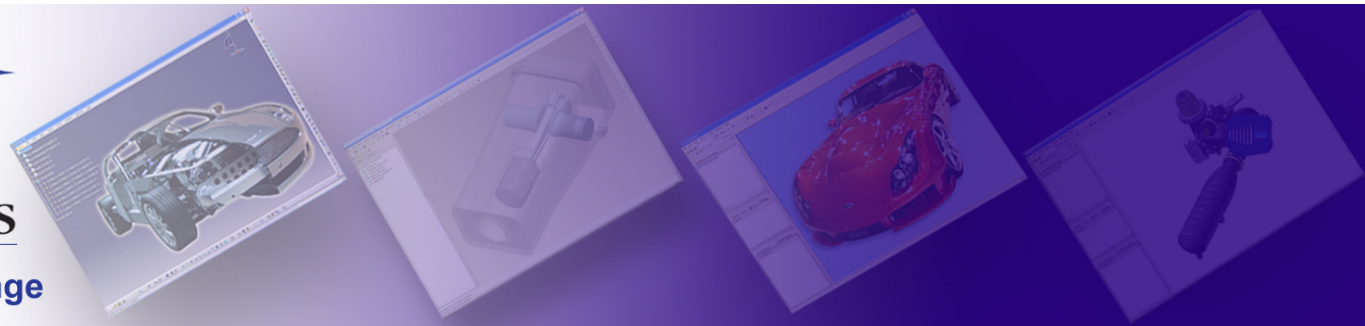




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JT to CATIA V5 Alternate Use Cases

Stuart Thurlby CEO

Trevor Leeson Product Manager



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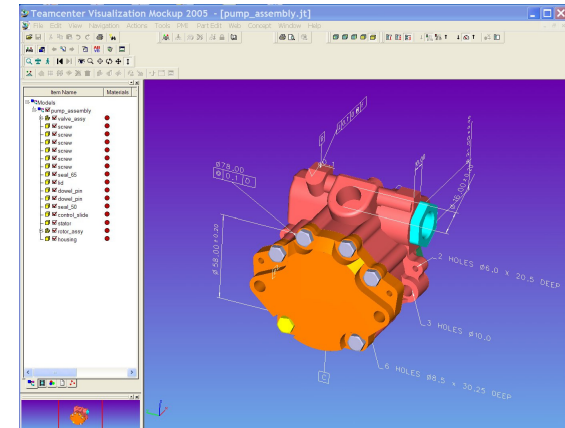
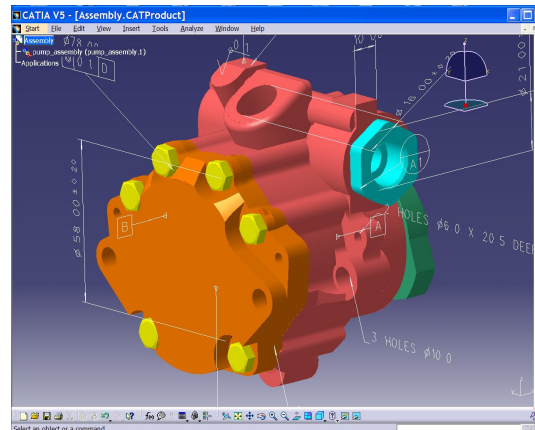
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Connected or Not Connected

JT-V5 Direct Connected

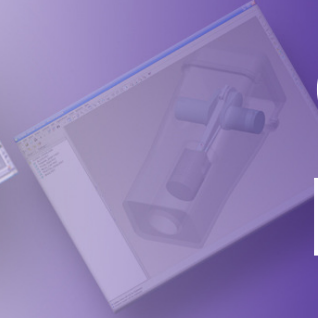
- CATIA Representation controlled by Teamcenter
- CGR – Derived from JT LOD data
- CATShape – Derived from JTBREP data
- Single embedded object, no support for CATProduct output
- PMI graphics always visible





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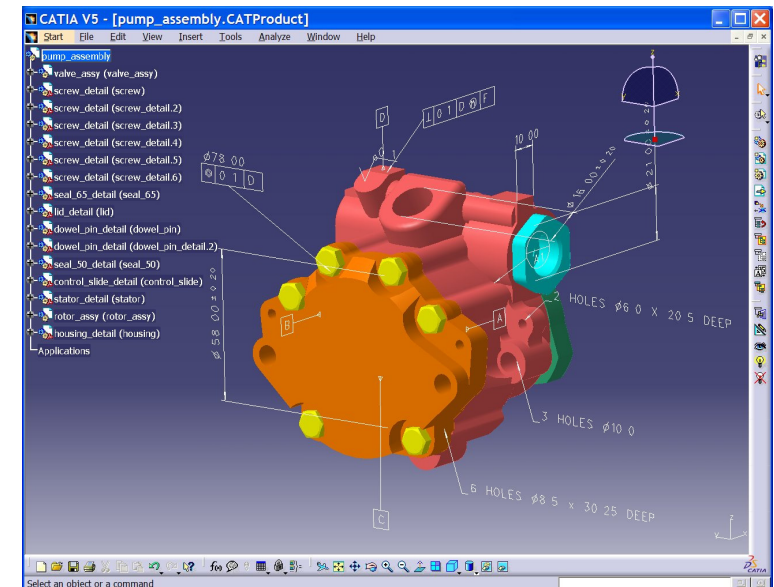
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Connected or Not Connected

JT-V5 Not Connected

- CATIA Representation controlled by user
- CGR – Selectable output JT LOD/BREP data
- CATPart/ CATShape – Selectable BREP
- CATProduct – Selectable
- PMI graphics visibility control
- PMI Colour / Layer





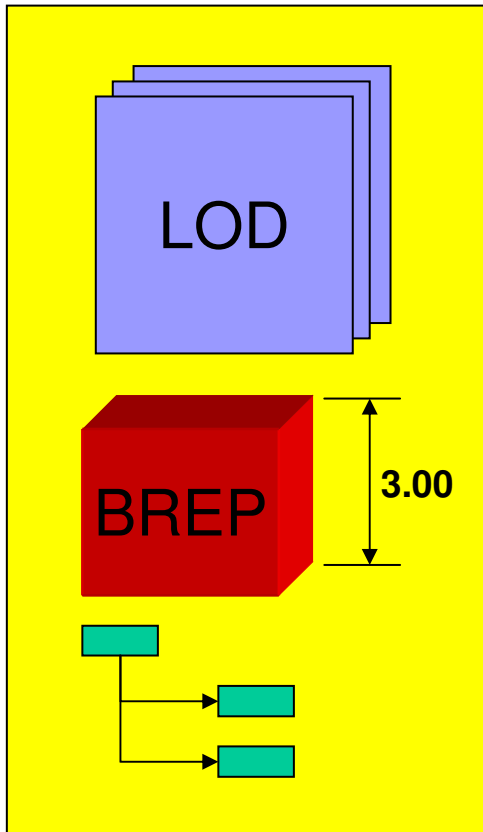
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JT Representation

JT Data Structure

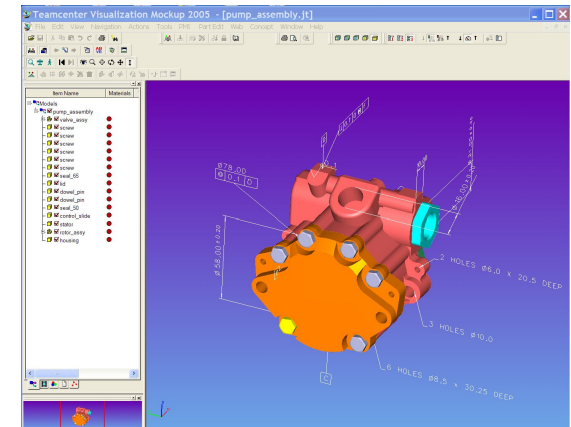


LOD Level of detail, one to many facettted Representations of the shape

BREP – Exact geometry representation

PMI – 3D Dimensions and Annotations

Assembly Structure data





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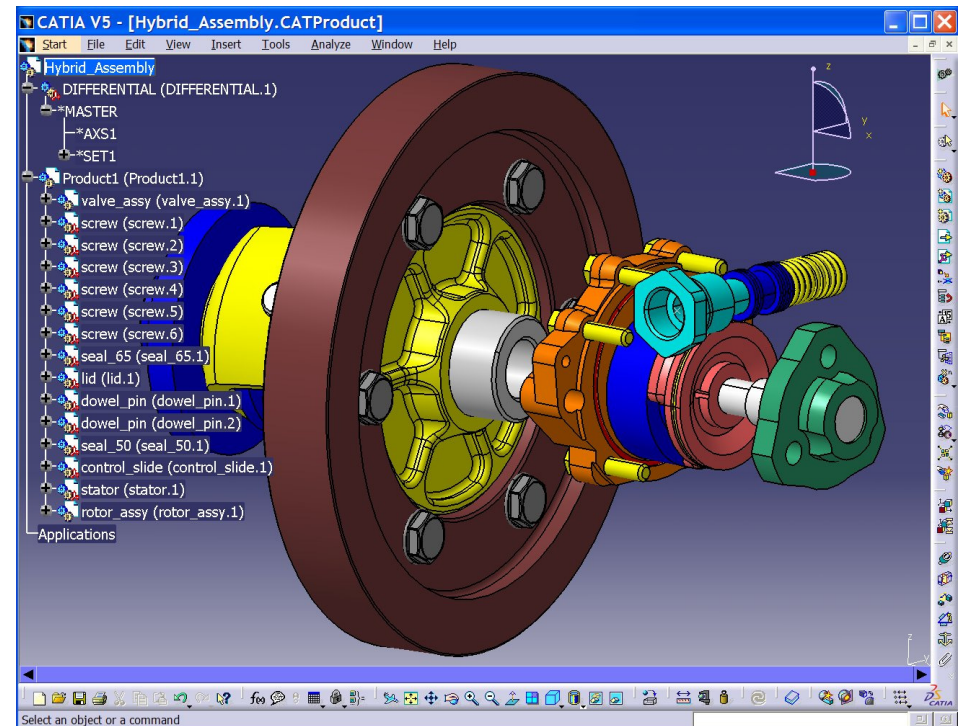
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Command Line Syntax

Command Line

`/apps/catia/R14/theorem/scripts/jt_catia5r14.csh jt_file v5_file [options]`

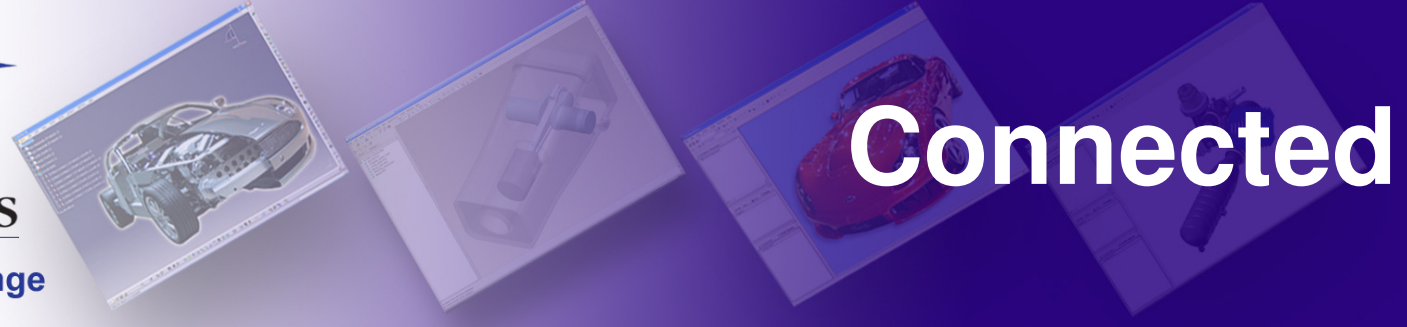
*Basic Command Line;
The name of the translator script
followed by the jt file to be
processed and the CATIA V5
file to be created plus any additional
options to control the type of data
that is generated.*





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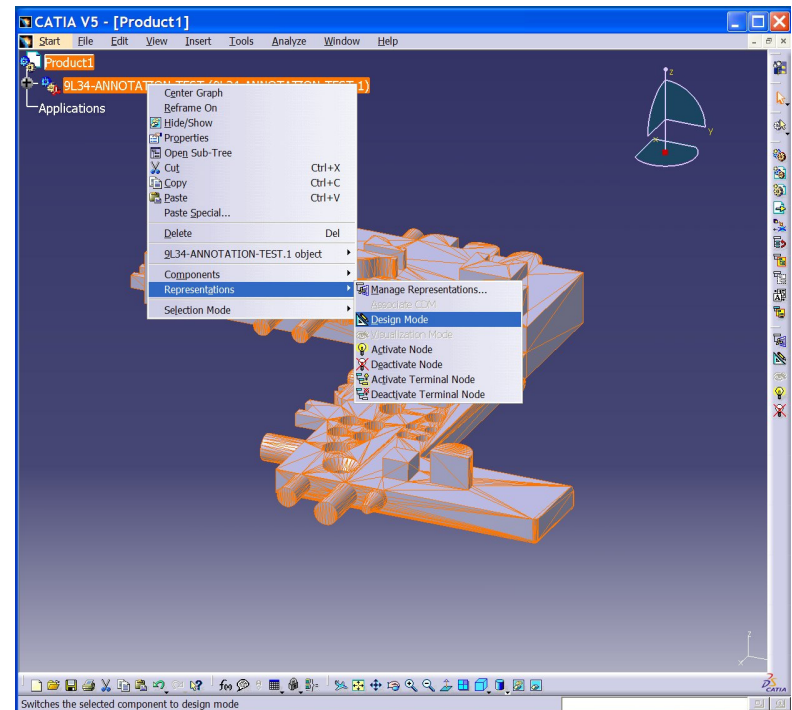


Creating CGR Output

Options = fine_tristrips create_cgr off_ditto

CGR Output;

- *fine_tristrips create_cgr JT LOD[0] data output to CGR*
- *off_ditto Collapses any JT Assembly Structure*



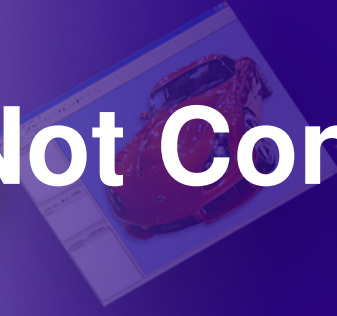


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Not Connected

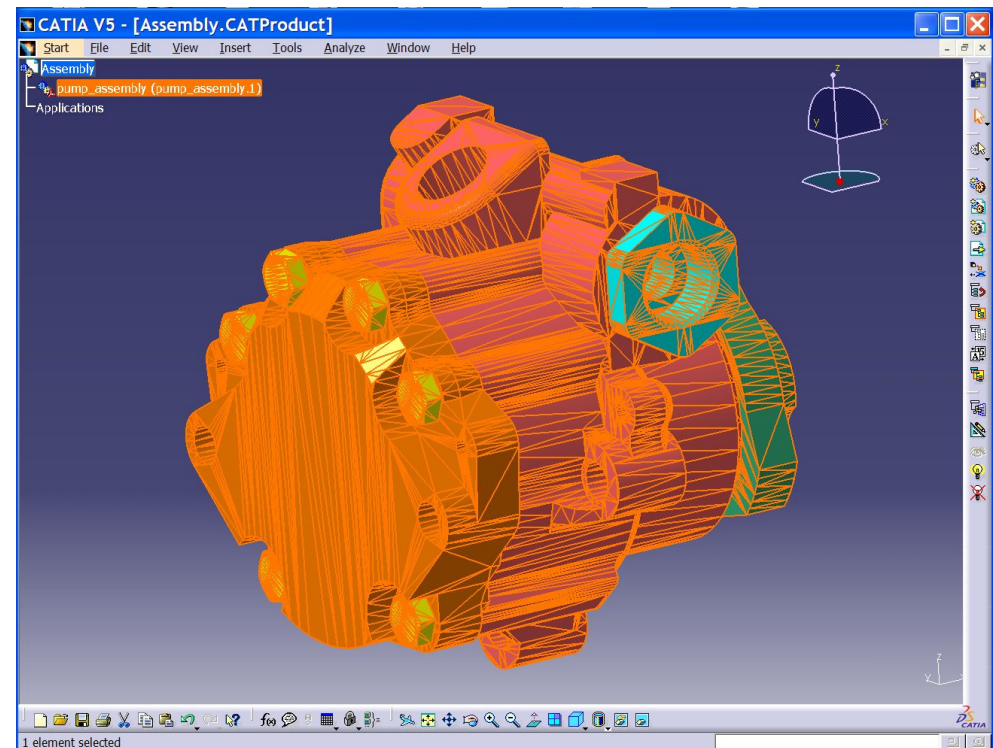


Creating CGR Output

Options = output_type cgr off_ditto

CGR Output;

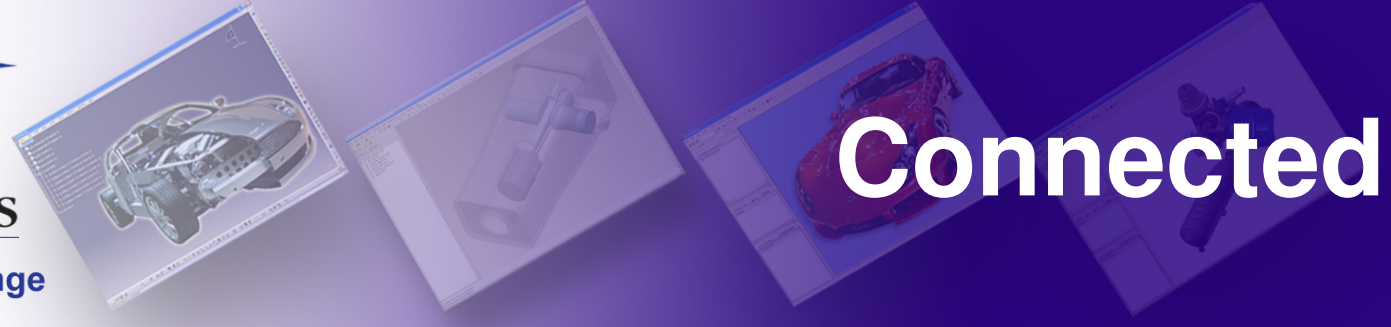
- *JTBREP data output to CGR*
- *off_ditto collapses any JT Assembly Structure*
- *No PMI data read*





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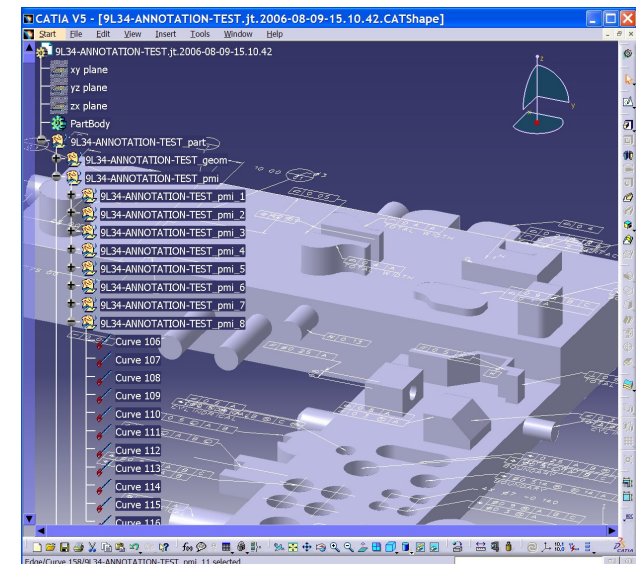
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Creating CATShape Output

Options = output_type CATShape off_ditto read_pmi

*CATShape Output;
JTREP data output to CATShape format
off_ditto collapses any JT Assembly Structure
read_pmi enables JT PMI data to be read*





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Not Connected

Creating CATProduct & CATPart

Options = read_pmi hide_pmi pmi_color red pmi_layer 10

Options;

read_pmi

hide_pmi

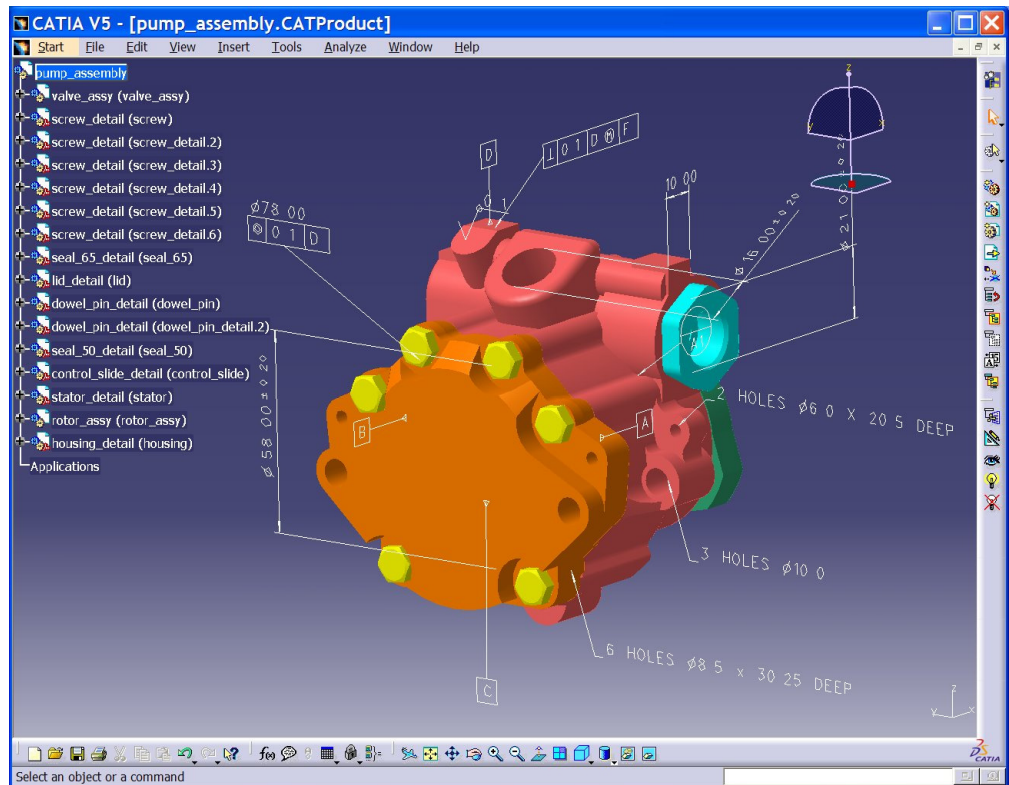
pmi_color red, black, blue

pmi_layer n

Default Output;

- CATPart for all JT BREP Geometry

- CATProduct for any JT Assembly Structure





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Not Connected



Creating CATProduct & CGR

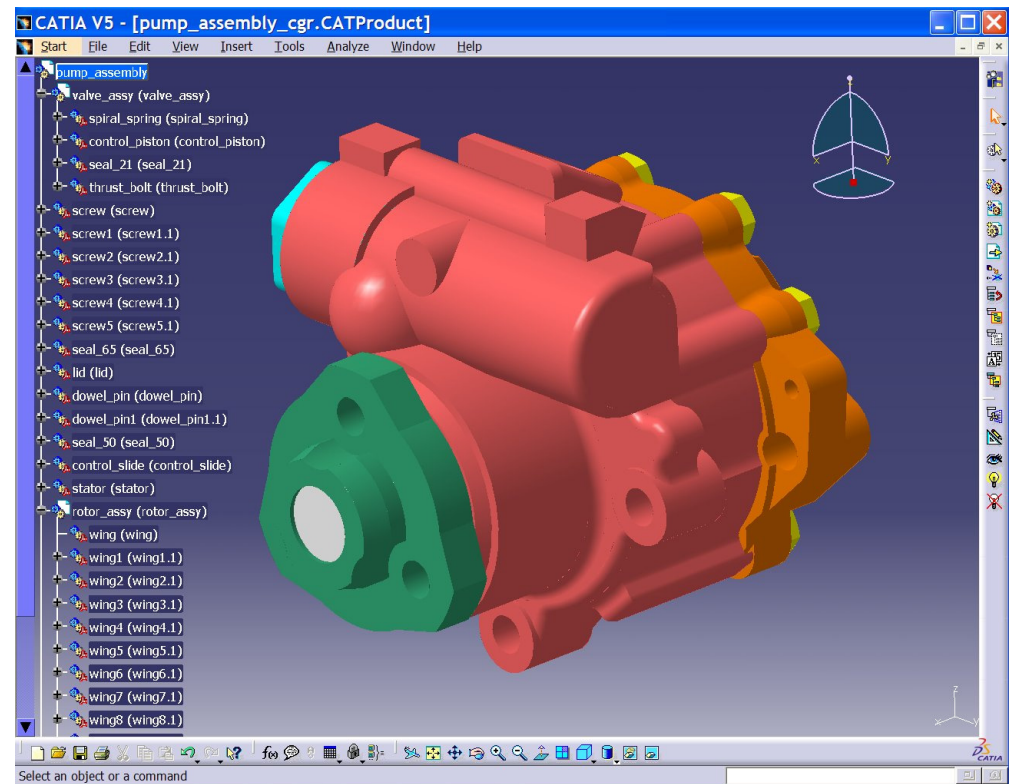
Options = output_type cgr or fine_tristrips create_cgr

Options;

output_type cgr - BREP

Or

fine_tristrips create_cgr - LOD





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Configuration Options File

Configuration Options File Usage

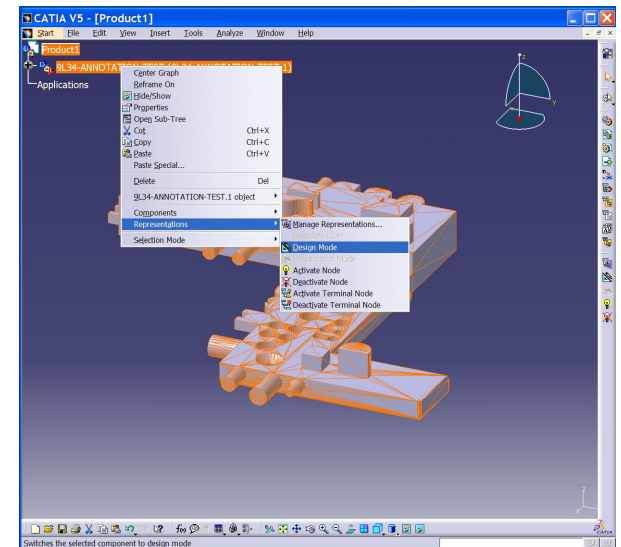
```
/apps/catia/R14/theorem/scripts/jt_catia5r14.csh jt_file v5_file  
ts_cfile /my/config/filename
```

Configuration File.

Simple text file containing options required

Consistent output control

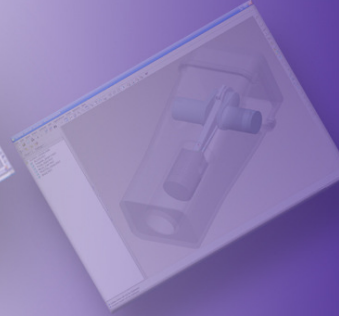
/apps/catia/R14/theorem/data/jt_read.config





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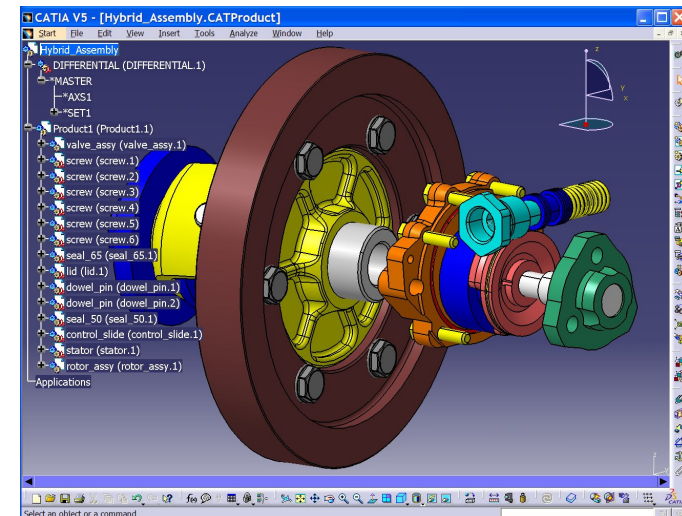
Command Line Options

List of Available Options

read_pmi
hide_pmi
pmi_user_text_height *real_value*
pmi_color *color_name*
pmi_layer *integer_value*
geom_layer *integer_value*
output_type *cgr*
output_type *CATPart*
output_type *CATShape*
create_cgr
fine_tristrips
coarse_tristrips
brep_only
brep_pref

fine_facets
coarse_facets
merge_solid
single_skins
single_catproduct
multiple_catproduct
off_ditto
assemble_faces
edge_curves
ts_cfile *filename*

dont_print_info
noerrors
nowarnings
noinfo

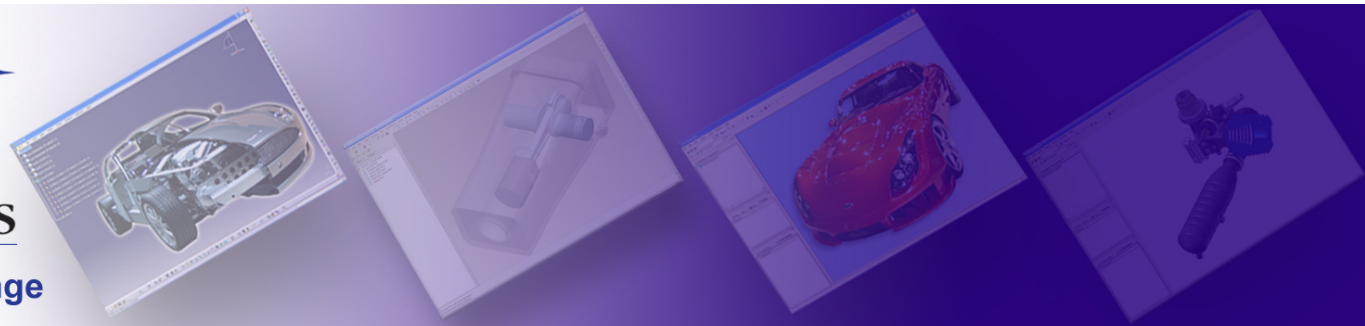


**For further details refer to
JT to CATIA V5 Command Line User Reference Guide**



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Next Steps

*Important
DATE!*

Q2 2007...

<https://ford.webex.com>

Title: The alternate direction...CATIA V5 to JT