

Design*fusion*

Presenter:

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Subject:

Modelling Techniques for Improved

Modelling Techniques for Performance

- This presentation will walk through a few methods to gain performance through many different approaches.
- There may be others.
- These are just suggestions...apply as needed



Imported Parts – Limit Detail

- Limit detail. Some download sites and suppliers provide additional detail. Most not necessary for use. E.g. company logos and text, threads (McMaster Carr)
- Use the power of synchronous technology to consume text



Use Sketches to Show Text

- As opposed to creating a cutout or protrusion let's try using the option of sketches in drawings.
- Much less requirements on the system
- Easy to show/hide in all environments



Duplicate

- Probably seen this at Part level (What's New ST9)
- Can be an irregular pattern by using Sketch/blocks
- Can be from occurrences
- Available to use in Assembly for a while

Configurations

- Use in Draft
- Cannot survive without them in large assemblies but...
- Use them to provide a “Depth of View”
- There is an option for setting Depth of View...Did you know?

Configurations 2

- You can use Sub-assy configurations easily from the top level – great for Re-usability



Fasteners

- Solid Edge comes with some free content
- If your license allows for it –
Please use!....okay...you ask why?
- Already simplified
- Easily replaceable
- Relationships will be stable



Fastener System

- Lets take Standard Parts to the next level
- Look at Fastener systems and how to build stacks



A Better Way?

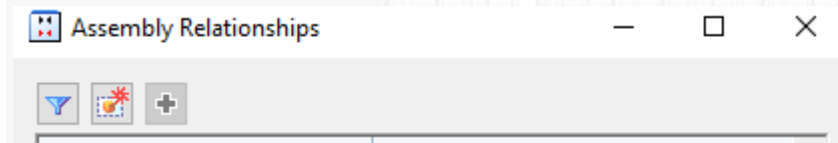
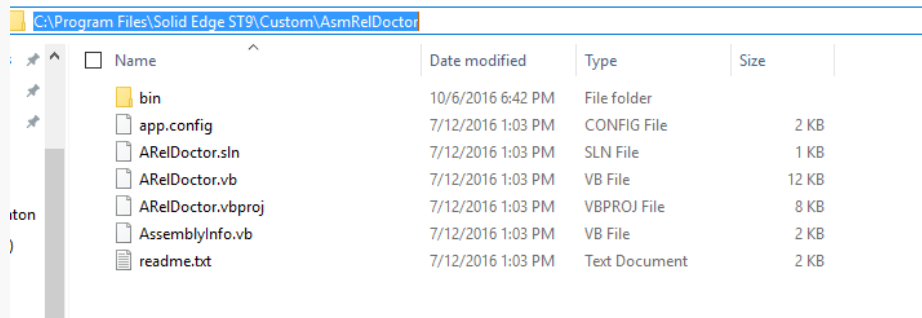
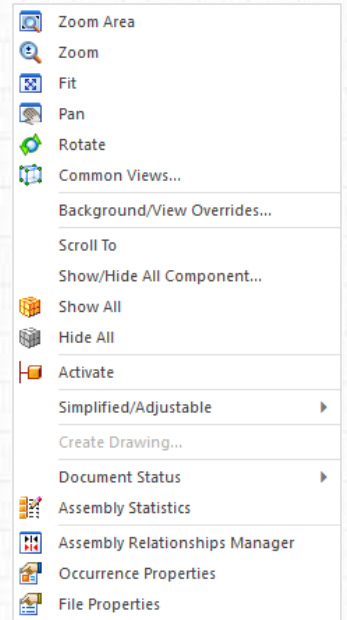
- If you have a need to create a sheet with many holes...OR....a hose with corrugation maybe actually modelling it might not be best

!!

- Absolutely surely positively set virus scanner settings correctly
- *If possible exclude Solid Edge data directory (only if SE data is in there)
- *If possible exclude all SE .EXE's and definitely Solid Edge file types from scanning
- Be sure to abide by all I.T. and corporate policies

Manage Relationships

- The new Assembly Relationships Manager is great but did you notice....?
- There used to be a tool in the Custom folder



Inactivate Every XX Minutes

- Computers are so dumb...they do EXACTLY what we tell them...for now
- Set in the Solid Edge Options

Where Can I Get Help?

- Under “Errors”
- Geometry Inspector
- “Optimize” command

Quicksheets

- Used to quickly create drawings as a type of template

Capture Fit

- Remembers relationships
- Can be session based or be permanently remembered

Solid Edge Options



General

Fast Property Search

View

Colors

Save

File Locations

User Profile

Inter-Part

File Management

Assembly

Assembly Open As

Units

Dimension Style

Helpers

Drawing Standards

Annotation

Item Numbers

Simulation

Component Placement Options

- Do not create new window when placing component
- Maintain relationships when placing component
- Use simplified models when placing parts in assembly
- Place as Adjustable when this assembly is placed into another assembly
- Disperse this assembly when placing
- Use Formula for placement name
- Match click points on the parts when creating first assembly relationship (pre-ST8 behavior)
- Show dynamic movement of component during FlashFit: faster

Construction Display Options

Construction display options when placing components in assembly

- Show coordinate systems of component
 - Keep displayed after placement
 - Hide after placement
- Show reference planes of component
 - Keep displayed after placement
 - Hide after placement
- Show construction geometry when placing parts that do not have a design body

Fast Locate Options

- Fast locate using box display for parts
- Fast locate using box display for assemblies
- Fast locate when over Pathfinder

Limited Update and Save

- Enable Limited Update command button
- Enable Limited Save command button

Miscellaneous Options

- Use default placement name during Replace Part
- Auto-scroll assembly pathfinder
- Auto-hide relationship pathfinder
- Dim surrounding components when a selection is made in relationship pathfinder
- Preserve assembly display settings after close and return from part
- Patterned parts inherit parent part occurrence properties by default
- Inactivate hidden and unused components every minutes

OK

Cancel

Apply

Help

- One
- cus
- oth
- Sav

Solid Edge Options

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Name:

Initials:

Mailing address:

Feedback and Spotlight

Solid Edge Product Improvement Program

Display Solid Edge Spotlight

Settings and Preferences

Deploy Settings and Preferences during startup of Solid Edge

Capture Settings and Preferences during exit of Solid Edge

Settings and Preference File:

SEAdmin

- I have probably talked about this ad nauseum
- Presented this at SEU 2014
- Way to control and deploy settings and options through an administrative tool.