



Pentagon

Optimizing Performance: Using Large Assemblies



If you are having issues opening or using Large Assemblies in Solidworks we have put together five easy steps for optimizing your software performance, based on your requirements.

1. Work Locally - Not doing so decreases performance and cause file corruption and file loss!

If you keep and maintain documents on a server or hosting platform, it is more efficient to copy the files locally, make your changes and then copy the files back than to work over the network. This is what many PDM and PLM systems do, including the SOLIDWORKS PDM, ENOVIA and Meridian.

2. Use Lightweight Mode or Large Assembly Mode

With lightweight mode, you can load less than half the data as a fully resolved assembly. It does not load the feature data from parts that aren't needed at the assembly level. This means that using Lightweight mode your assembly could load twice as fast!

Large Assembly Model will load assemblies as lightweight as well as toggling several other options known to improve performance.

3. Use Large Design Review Mode

Lightweight mode will open only the body data from referenced components whereas Large Design Review Mode only loads the display data, which is even lighter.

4. Use Speedpaks to Simplify Models and Subassemblies

Cosmetic features add edges and faces without helping assure their fit and function within assemblies, potentially doubling the total number of faces in an assembly, degrading performance in assemblies and especially in drawings. Use Speedpak configurations to reduce the number of these cosmetic features that are loaded into the model. This means you can use the detailed configuration in part design and the simplified configuration in higher level assemblies. Speedpaks will increase the file size but decrease the load time.

5. Use Display States Not Configurations where possible

You can and should use configurations to store different designs of an assembly. However, if you want to just show different displays of an assembly or part, use display states. For example, if you want to show different colours or if you want to hide or isolate components, it is more efficient to use a display state.

Please do not hesitate to contact us for further information

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