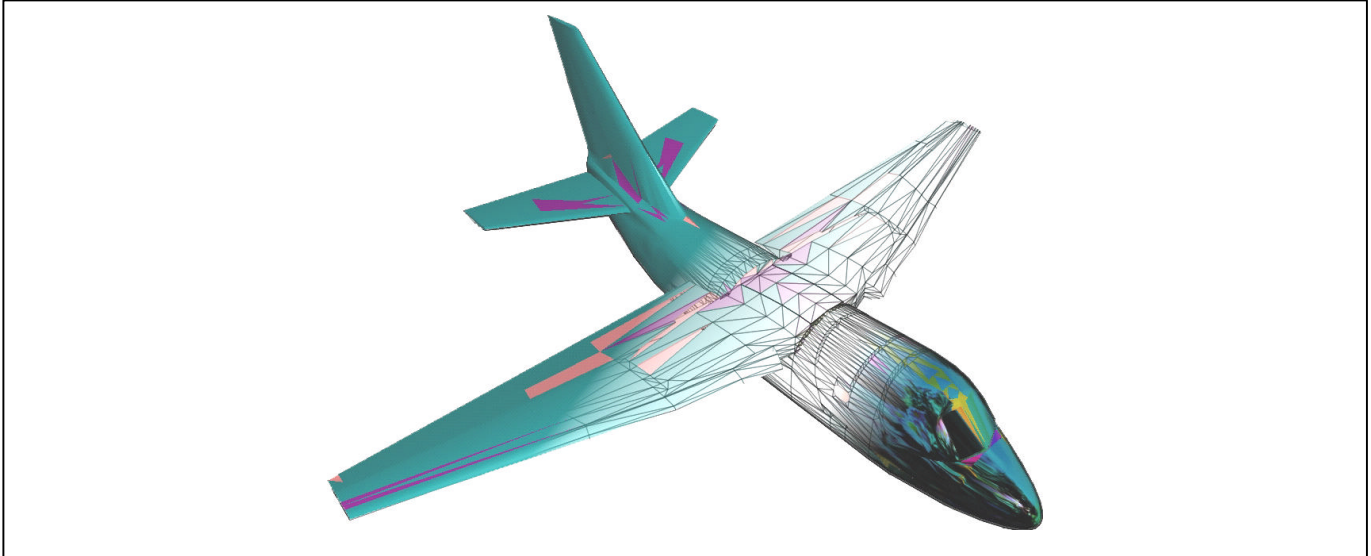


Project Title: IVECS, THE INTERACTIVE VIRTUAL ENVIRONMENT FOR THE CORRECTION OF .STL FILES



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Project Partners:
Funding: In House

Project Abstract:

IVECS is a software solution, which facilitates the generation of artifacts (generated with Computer Aided Design systems) on Rapid Prototyping, or Solid Freeform Fabrication systems by:

- Ensuring shell-closure of the artifact using intuitive visual aids,
- Offering a customizable, and automated resolution of ordinary errors (round-off errors & misoriented shells),
- Allowing parts to be Virtually Prototyped with chrome plating mode (to spot form flaws) or transparent mode (to spot internal details),
- Offering on the spot assisted intervention with a suite of tools for triangle-based edition (patching, deletion, offset, clipping, reversal...),
- Dynamically showing the evolution of errors on the skin of the artifact.

IVECS is aimed at a wide range of users, ranging from conscientious CAD users with the need to verify their design before it is built to Rapid Prototyping facilities manager, ensuring greater throughput and increased efficiency. IVECS can primarily be viewed as the equivalent of a "print-preview" function.

IVECS is available for both Microsoft Windows NT & SGI IRIX. Visit <http://design.vr.clemson.edu/ivecs/> for more information.