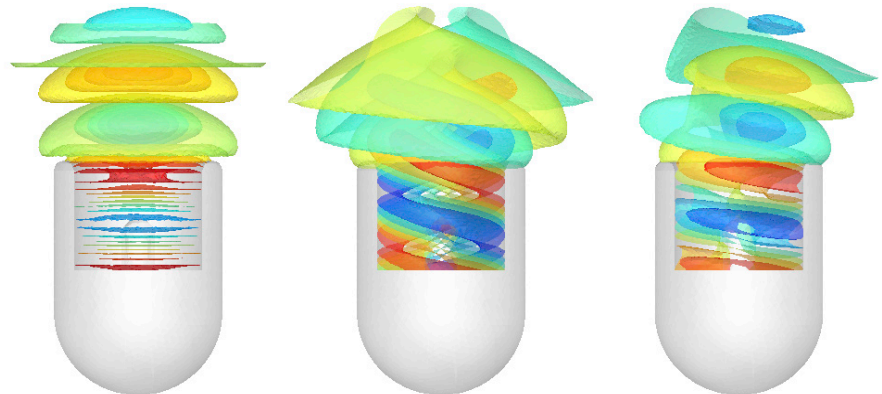


Dedicated pre & post-processor for the ACTRAN CAE software family

KEY FEATURES

- > Support of all ACTRAN features for the creation and editing of ACTRAN analyses
- > Support of different mesh formats such as BDF (NASTRAN), OP2 (NASTRAN), UNV, RST (Ansys), CDB (Ansys), NFF & DAT (ACTRAN) and Patran Neutral Format
- > Support of different results formats such as OP2, UNV, NFF, RST, HDF and Punch
- > Visualization of all ACTRAN specific features
- > Visualization of the projection quality for incompatible meshes
- > Synchronized viewports for results and analyses comparison
- > Analysis templates for semi-automatic model creations
- > PLTViewer and WaterfallViewer tool for easy display and handling of frequency response functions
- > Contour plots, iso-surfaces, vectors and deformations features responding to the specific requirements of the acoustics community
- > Multiple cutplane filters for visualizing results within a mesh
- > Animation module dedicated to complex harmonic and transient results
- > Video export capabilities



Product overview

ACTRAN's powerful and user-friendly pre- and post-processor

ACTRAN VI is the new graphical user interface specifically designed for pre- and post-processing vibro- and aero-acoustic analyses of all ACTRAN modules.

Including an ACTRAN input file reader to check or modify input files generated by other tools, ACTRAN VI supports several mesh formats (NASTRAN BDF, ANSYS RST and CDB, ACTRAN DAT and NFF, I-DEAS UNV, PATRAN Neutral Format) as input for creating ACTRAN input files.

Its various integrated pre-processing tools ease the creation and editing of ACTRAN models. It is easy to visualize specific ACTRAN model features (such as modal basis, sources or infinite elements coordinate system), to specify the projection parameters between incompatible meshes, to insert additional entities (e.g. control points) or to visualize the specified boundary conditions. Additionally, it is also possible to define analysis

templates (with or without mesh) to ease the creation of recurrent analyses.

The post-processing tool supports different results formats, such as OP2, UNV, NFF, RST, HDF and punch files. It contains different visualization modules, such as contour plots (maps), iso-surfaces, vectors or deformations, which can be freely combined and controlled using different filters. Synchronized viewports makes it easy to compare results at different frequencies, phases, times or related to different load case.

An animation module dedicated to complex harmonic results coupled with video export capabilities is also included.

ACTRAN VI includes the PLTViewer and WaterfallViewer modules for easily displaying and handling frequency response functions, in single or multiple loadcases.

Target applications

- > Validation, visualization and modification of existing ACTRAN analyses.
- > Creation of new ACTRAN analyses.
- > Display of all ACTRAN results.

THE ACTRAN SOFTWARE SUITE

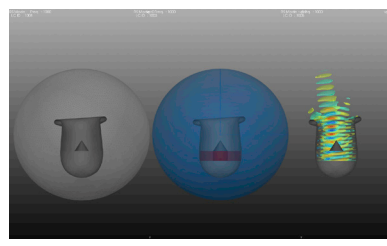
ACTRAN is the most complete acoustic, vibro-acoustic and aero-acoustic CAE software suite. Under a common technological umbrella provided by the finite and infinite element method, ACTRAN provides a rich library of elements, material properties, boundary conditions, solution schemes and solvers. ACTRAN is a high performance, high productivity, high accuracy modeling environment suiting the needs of the most demanding engineers, researchers and teachers and empowering them with the tool they need for solving the most challenging acoustic problems.

FREE FIELD TECHNOLOGIES

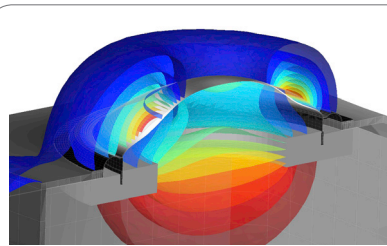
Free Field Technologies develops, maintains, supports and sells the ACTRAN acoustic CAE software suite. The company also provides related support, technology transfer, engineering, technical support, training and customization services.

FFT operates from its headquarters in Mont-Saint-Guibert (Belgium) and from local offices in Toulouse (France) and Tokyo (Japan). ACTRAN is distributed worldwide by a dense network of partners; please contact us for details of your nearest partner.

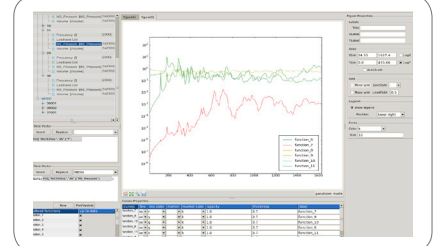
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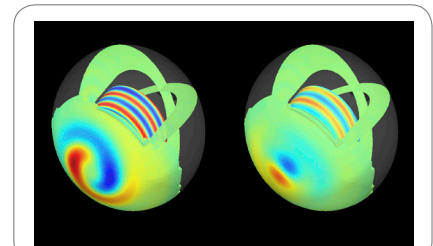
ACTRAN VI workflow : mesh import, model creation, and results postprocessing.



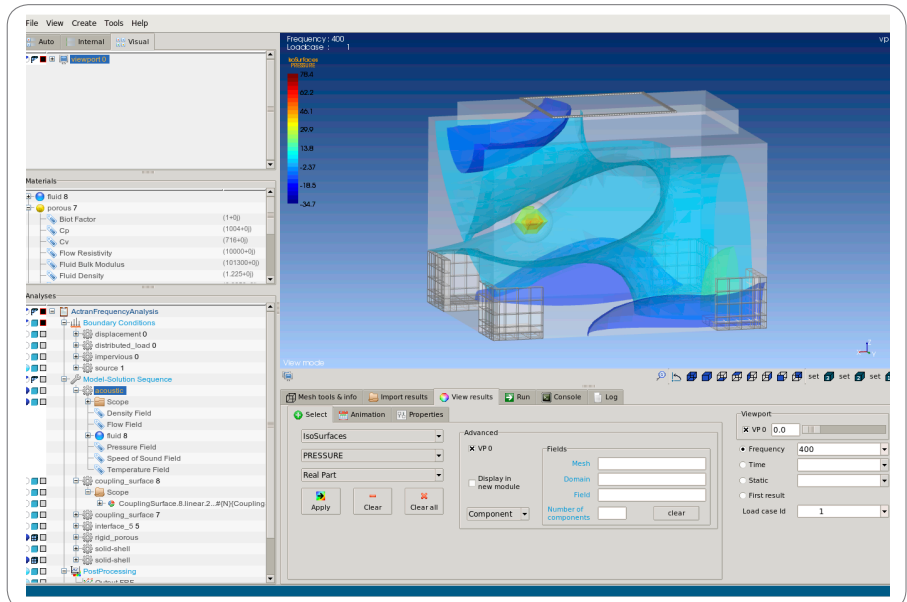
Combination of deform, grayscale map and isosurfaces modules.



The PLTViewer tool is very useful for plotting FRFs, comparing experimental data to results, etc.



Multiple viewports can be used for easy comparison of simulation results.



Overview of ACTRAN VI GUI.

FREE FIELD TECHNOLOGIES

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