

VU is the most popular software of our line of products in scientific visualization. It combines performance, configurability and respect of the computed numerical data.

Its main features are:

- Structured, unstructured and hybrid meshes
- Scalar, vector and symmetric tensor fields
- Non-restricted number of solution fields
- Cutting planes at arbitrary orientations, indicated by the user or modified interactively
- Combination of different fields of the solution as mathematical expressions
- Isosurfaces of any variable or any mathematical expression defining a secondary variable

- On-the-fly calculation and interactive control of streamlines and particles injection
- Integration across the boundaries of blocks or meshes
- Reading and animation of several files to study transient phenomena, to follow the evolution of an adaptive mesh or to illustrate the parametric study of the solution.
- etc. For more information, see the complete list of [features](#) .

Some functions of VU can be called by user programs in order to:

- read user-specific file formats,
- interpolate a solution for specification of initial conditions on a second mesh,
- share data in memory between VU and a program (solver, mesher, etc.) for visual monitoring.

A light version of VU offers the same features for data files of no more than 1 million elements in [generic data formats](#) .