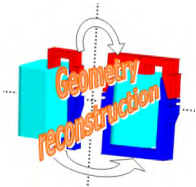


● **Geometry and mesh improvements**



» **Improvement of CAD import**

- . **Updated with the new Acis R21 SP1** (ProE wildFire 5,...)
- . **CAD import process improved** to take into account users previous difficulties
- A reinforced link to mechanical studies to save time and avoid mistakes



» **Automatic geometry reconstruction**, 2D & 3D

- Use symmetries and periodicities for fast computations, but keep a full view of the device in pre- and post-processing : **more representative result images for your presentations.**

» **Automatic meshing tool** becomes the standard option for 2D models

» **Motor Overlays compatible with all the SPEED software libraries** (BPM, IM, DCM, SRD)

● **News in physical description**



» **Visualization of magnetic material curve**

- Estimation and **validation of the material characteristic at a glance**

» **Thin conduction regions can now be part of an electric circuit as a solid conductor**

A powerful modelling tool for EMC studies available in 3D steady-state AC magnetic applications

» **Flux and Simulink co-simulation**

Ideal to design the device with its drive & control. Available for transient applications in 2D, 3D & skew

● **Solving improvements**



» **Solving acceleration:**

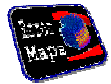
- . **New multi-core computation**, coupled with pre-resolution acceleration and faster sparse matrix construction

→ Take advantage of 100% of your computer power. Especially interesting for big 3D models. The greatest accelerations will be encountered with cases involving circuit coupling with many coils and solid conductors.



» **Error criterion management**

- . Special tool which **indicates where the mesh should be refined in priority** to improve the computation. Provides application and region specific criteria to measure the error.
- Provides local maps and a global value to monitor the error for all the applications.



● **New comfortable post-processing functions**



» **New post-processing:**

→ **Get yours results without effort in a few clicks**

- . One-click Isolines and Isovalues display with sharpness adjustment slider

. **Animations**

- . Boundary Arrows
- . Quick & easy access to local quantities

. **Full Units Management**

- . Superimposition of 2D Curves

. **Spatial Group**

- . Vectors along a Path

. **3D Curves**

. **Full Automatic Report Macro**

- . 2D Curve import



● **Miscellaneous**



» **New Flux Online FAQs: An efficient service** <https://gate.cedrat.com>

- . **24/7 available**
- . **Regular updates**
- . **Submit your own questions !**

. Collaborative platform to be enriched with new contents: macros, software download, videos,...

» **Flux still benefits from Linux technology:** Red Hat Enterprise Linux Edition 5, 32 bits & 64 bits

More information:

<http://www.cedrat.com/en/software-solutions/flux/what-s-new.html>