



# HIGHER EDUCATION PROGRAM MECHANICAL ANALYSIS PACKAGE

Mentor Graphics Higher Education Program's (HEP) Mechanical Analysis Package provides complete solutions for electronics thermal design (electronics cooling); building heating and ventilation (HVAC); and Concurrent CFD – Computational Fluid Dynamics software embedded in a mechanical CAD environment.

## Software Access

As a member of HEP you will have access to Mentor Graphics' Mechanical Analysis products, for use in teaching, class work and academic research. Mentor Graphics donates the software and levies a small annual support charge based on the design package(s) used. This support charge is irrespective of the number of licenses used.

As a member of the HEP you will also be able to acquire Mentor Graphics products for IC design and verification, Functional Verification, SoC and FPGA design, Printed Circuit Board design and analysis and Automotive design.

## Benefits

- Access to as many copies of the software as needed.
- Access to the same customer support services as corporate customers
- Access to Mentor Graphics' advertised public training classes at zero cost on a space available basis
- Curriculum collaboration opportunities through our network of universities
- Access to online product demonstrations and tutorials for many products

## Mechanical Analysis Tools

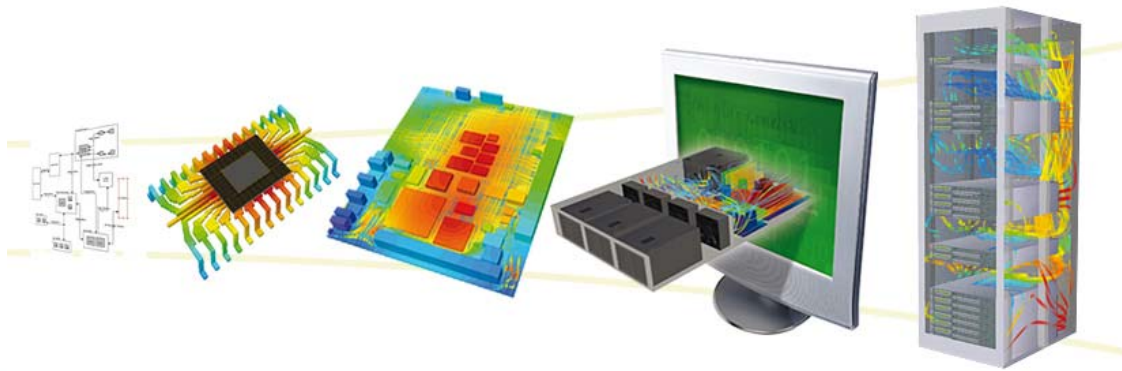
DESCRIPTION	PACKAGE COMPONENTS	SUPPORT PRICE (US)
Mechanical Analysis	FloTHERM™, FloTHERM Parallel, FloTHERM Solver, FloTHERM 4 CC Solver, FloTHERM Parallel Solver, FloTHERM 2 CC Parallel Solver, FloTHERM PCB FloMCAD™ Bridge FloTHERM PACK Subscription FloVENT™, FloVENT Parallel, FloVENT Solver, FloVENT 4 CC Solver, FloVENT Parallel Solver, FloVENT 4 CC Parallel Solver FloEFD™, FloEFD Electronics Cooling, FloEFD CFD Module	\$500



## Electronics Thermal Design (FloTHERM)

Mentor Graphics supports the complete thermal design of electronics from IC package through to system-level cooling.

- FloTHERM™ is a powerful 3D computational fluid dynamics (CFD) software that predicts airflow and heat transfer in and around electronic equipment, from components and boards up to complete systems.
- FloTHERM PCB™ is a radical new collaboration tool for product marketing, electrical and boards.
- FloTHERM PACK™ is a unique Web-based solution designed to generate reliable, accurate thermal models of IC components, test boards, standard test harnesses and other associated parts with the minimum of effort.

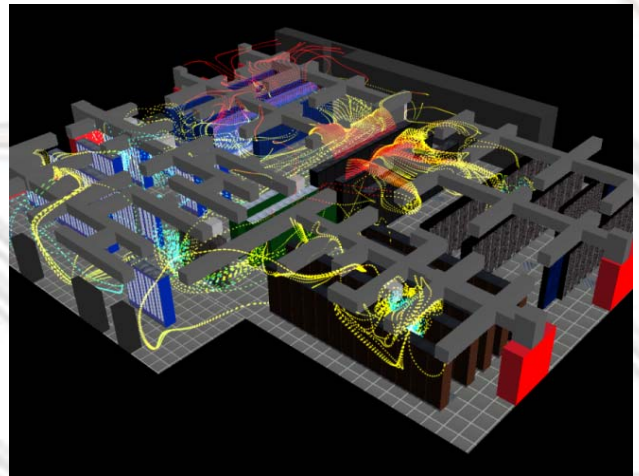


FloTHERM, FloTHERM PCB and FloTHERM PACK used to model all levels of electronics packaging

## Building Heating & Ventilation (FloVENT)

Mentor Graphics software predicts and optimizes airflow, temperature and contamination control in data centers and IT rooms, clean room ventilation, auditoriums, shopping malls, office buildings, underground car parks, passenger comfort in vehicles & terminals, air quality and contamination control in laboratories, research facilities, and hospitals.

- FloVENT™ predicts 3D airflow, heat transfer, contamination distribution and comfort indices in and around buildings of all types and sizes.

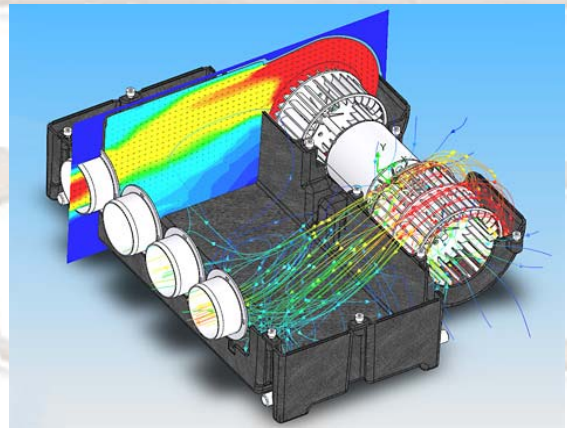




## Concurrent CFD (FloEFD)

Mentor Graphics CAD embedded CFD helps Engineers quickly overcome everyday design challenges associated with Mechanical Engineering Design projects.

- FloEFD™ is a full-featured 3D fluid flow and heat transfer analysis package without the numerical complexity and meshing overhead of traditional CFD.



## More Information

For more information on the Higher Education Program, including an online application, please visit the HEP website at [www.mentor.com/company/higher\\_ed](http://www.mentor.com/company/higher_ed).