



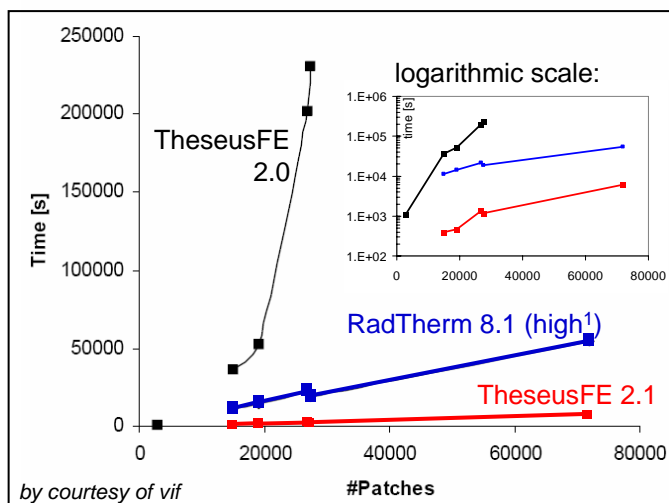
SPEED UP & LOCAL COMFORT

Release 2.1

The upcoming release **THESEUS-FE v2.1** is already announced for November and wishfully expected by our customers. Therefore we would like to report some more inside information about our new developments.

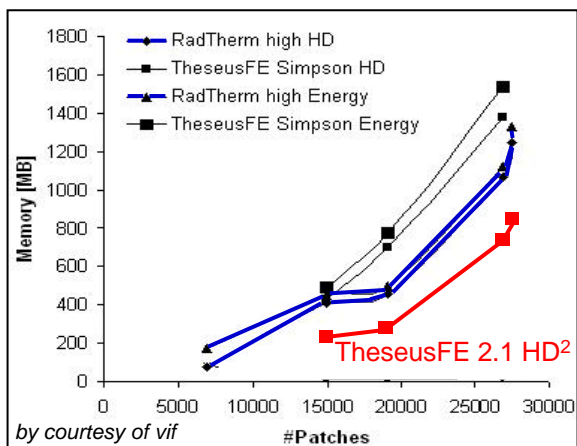
Modern Ray Tracing (Kd-tree)

leading to significant higher speed for viewfactor calculation...

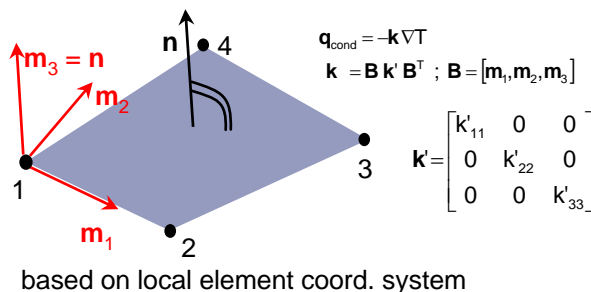


Diagrams had been presented by C. Rauch³ at this years VTMS8 meeting in Nottingham, without the new THESEUS-FE 2.1 results⁴.

Improved memory management

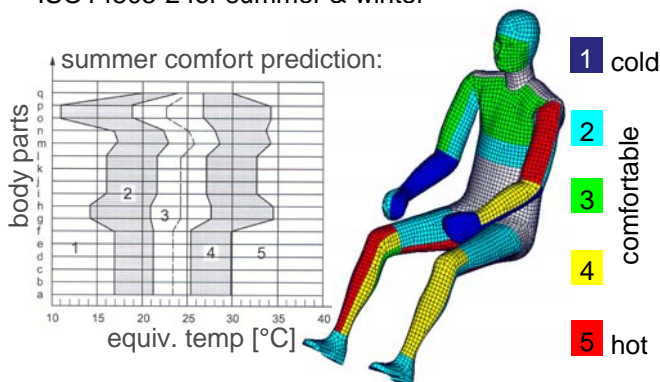


Anisotropic heat conduction for shells



Local comfort for thermal manikin

- local equivalent temperatures for FIALA-FE and
- local comfort indices based on the ISO14505-2 for summer & winter



Expanded Python scripting

- CreateCavity*, *SetGlobalBoundaries*,
- CreateThermalContact*, *CreateTimeTable*,
- CreateTemperatureTable*
- CreateVentilation*

- Faster creation of HDF result files
- New visual checks of input data assignments
- Flowmaster/TISC-link: bug fixes + improvements
- Revised documentation V2.1

¹) high: 294912 rays used per quad. elm. for viewfactor integration in RadTherm

²) HD: hard disc memory to store viewfactor matrix

³) Christian Rauch, *Das virtuelle Fahrzeug*, Forschungsgesellschaft mbH (vif), <http://www.vif.tugraz.at>

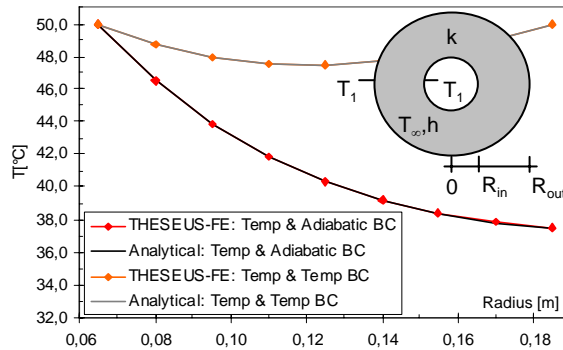
⁴) THESEUS-FE 2.1 results - CPU: AMD Opteron 250 (2.40 GHz); RAM: 8GB DDR-400; HDD: 300 GB U320 SCSI - with the original models (Coimbra) used by C. Rauch (vif) - CPU: AMD Opteron 252 (2.60 GHz); RAM: 8GB DDR-400; HDD: 73 GB U320 SCSI



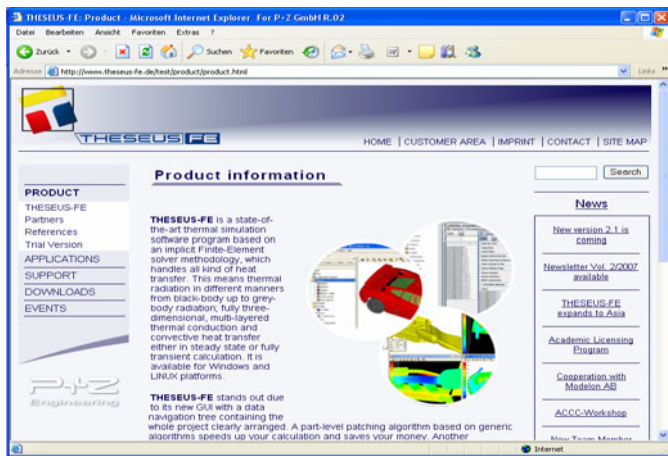
The pre-release **THESEUS-FE v2.1** is ready and under intensive testing and validation including the use of our quality management testing application.

New Validation Manual,

comparing THESEUS-FE results vs. analytic and INKA results for a huge number of thermodynamic problems...



New Homepage, <http://www.theseus-fe.com>



Academic Licensing Program

Due to several requests from Universities all over the world, now research departments, academic institutes and graduate students benefit from this settlement.

As a first reaction the famous Shanghai Jiao Tong University participate the academic program.

Cooperation with Modelon AB

Modelon and P+Z signed cooperation agreement about improving complex services in the field of vehicle climate control for customers of THESEUS-FE and Dymola AC Library. So, AC-systems and vehicle cabins grow together more and more in virtuality.

THESEUS-FE expands to Asia

Three years after successfully placing THESEUS-FE to Korea, P+Z took the strategic decision to capture other upcoming Asian markets too.

Currently P+Z win Beijing FEAonline Engineering Co.,Ltd over THESEUS-FE as an agent for China, which will start selling our product in the very next month.

Conferences:

Meet our sales and development team at ...

EUROSIM: 10. -13. Sept. 2007 University of Ljubljana, Slovenia

Progress in Vehicle Aerodynamics and Thermal Management: 09. - 10. Oct. 2007

FKFS Stuttgart, Germany

PKW-Klimatisierung: 17.-18.Oct. 2007

HdT Munich, Germany

Star CD Conference Germany:

06. - 07. Nov. 2007, Hilton Hotel Nürnberg, Germany

1. Workshop Aerospace Cabine Climate & Comfort:

08. Nov. 2007, CeBe Network Bremen, Germany

CeBeNetwork GmbH and P+Z will arrange the first Workshop on Aerospace Cabin Climate & Comfort specially for the aviation industry. Clients and interested customers are invited to participate this one day meeting for free!

2. Workshop Mobile Air Conditioning and

Auxiliaries: 29. - 30.Nov. 2007

Torino - Centro Ricerche Fiat

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