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...

- **Improved memory management**

- **Anisotropic heat conduction for shells**
  based on local element coord. system

- **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

- **Faster creation of HDF result files**

- **New visual checks of input data assignments**

- **Flowmaster/TISC-link: bug fixes + improvements**

- **Revised documentation V2.1**

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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...

**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 FEOnline 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
- **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

**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.

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