

JYVÄSKYLÄN YLIOPISTO

DESIGN Test Case Database at AVEC

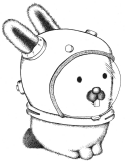
J. Forsman

T. Varis



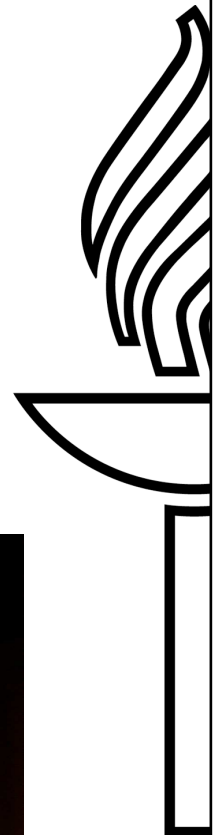
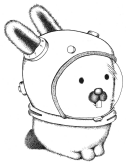
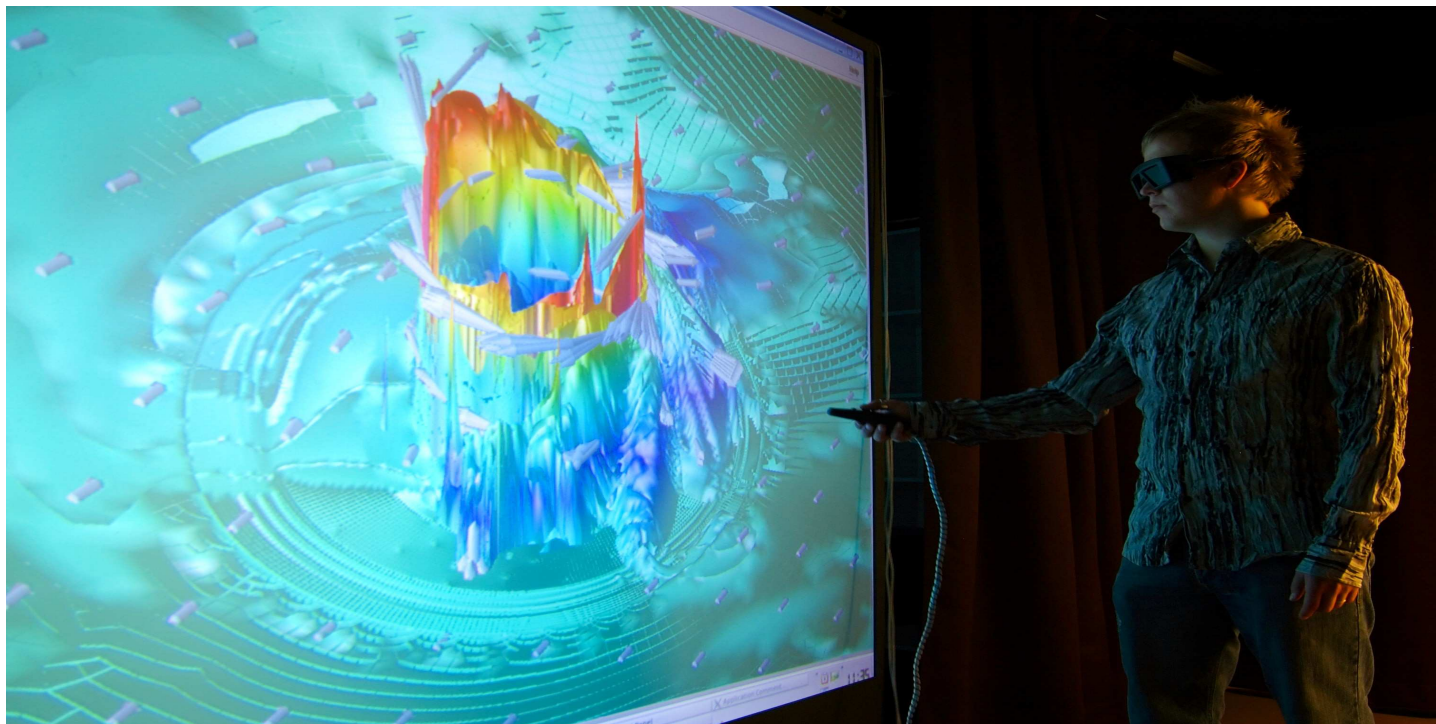
AVEC

- ◆ Independent research unit within IT faculty
 - Established 2003
 - Project organization, # of personnel varies; currently 7
 - Main research activities in virtual reality and visualization, technical computing, advanced level teaching, product development (systems integration) and outsourcing/support services
 - Customers both from academia and industry



AVEC - VR

- ◆ Focus on VR applications and software architectures



AVEC – Technical Computing

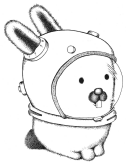
- ◆ Internal use related to VR
- ◆ Computing resources are used also various departments within JY and other universities and industrial customers (e.g. by buying CPU time)
- ◆ Computing power about 20 Tflops
- ◆ Processed data about 6 Terabytes/year



DESIGN Test Case Database

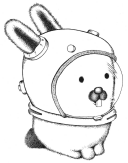
◆ Objectives:

- Promote collaboration and information exchange within the scientific/industrial community
- Gather test cases and computation results from national and international experts
- Work as a reference for validation of multiphysics software and optimization methods



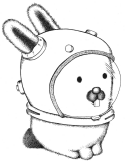
DESIGN Test Case Database

- ◆ The system on a technical level:
 - Database
 - Web server
 - Content management system

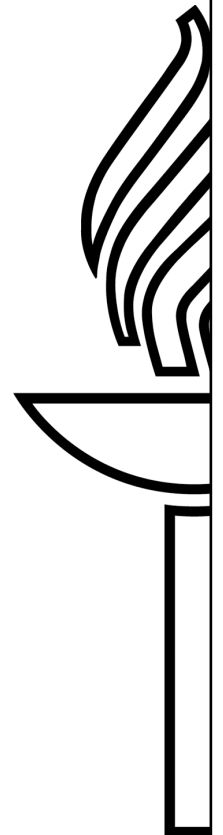
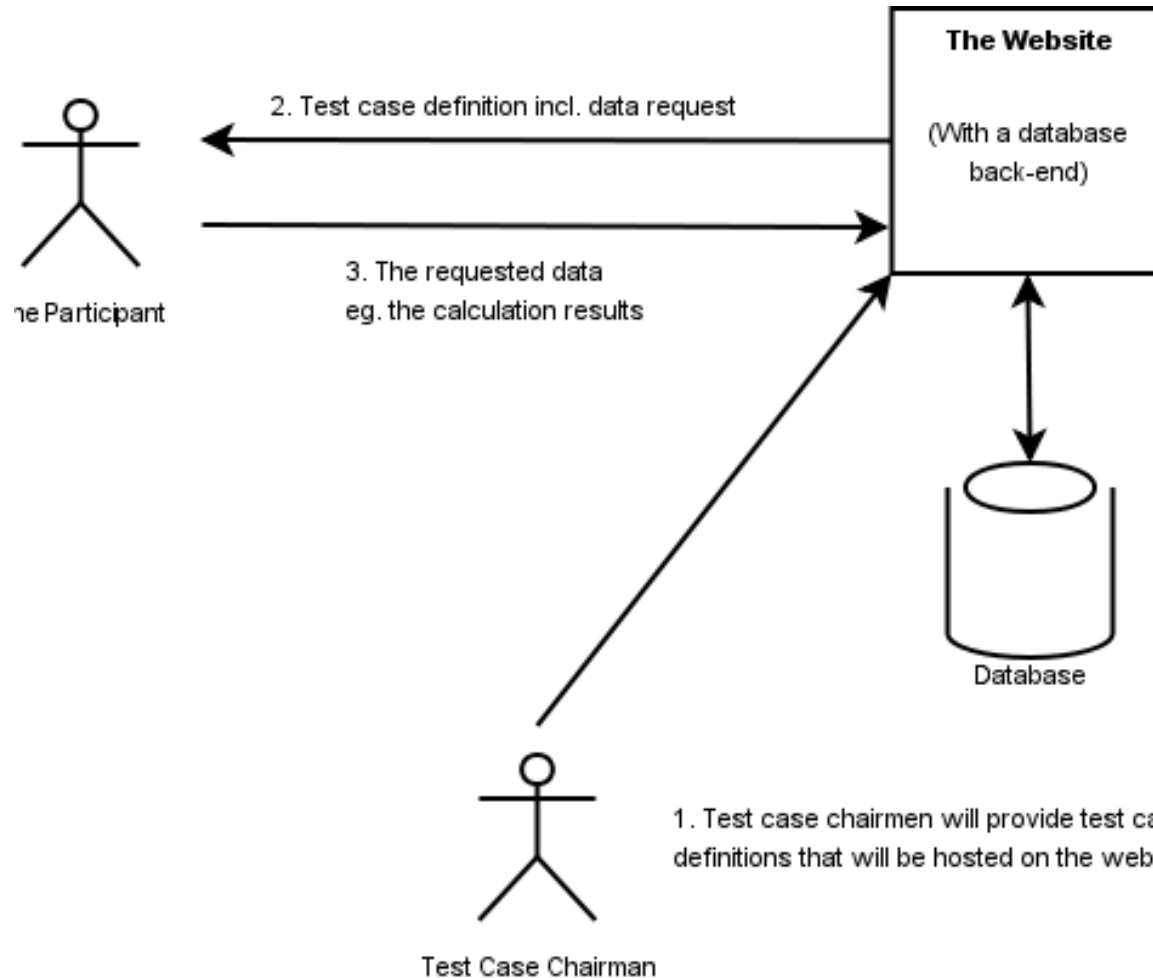


DESIGN Test Case Database

- ◆ The process
 - Test case chairmen provide test case descriptions for computation
 - Contributors access the descriptions on the database website
 - Contributors compute the test cases and upload the requested results using the database website



DESIGN Test Case Database



DESIGN Test Case Database

◆ Regulations

- Test case definitions are available to everyone
- In order to contribute, the user must register to receive an user name and a password
- Results be available in public or private domain
 - Decision is made by the contributor



DESIGN Test Case Database

◆ Registration

- Registration form will appear on the website at <http://jucri.jyu.fi> by Tuesday 17th March

