WHAT IS ENKIDOU® ?

- Research and Innovation projects in the field of scientific computing often require some specific developments
- ENKIDOU was created to help develop specific applications
- ENKIDOU is not a stand-alone program.
- ENKIDOU is a <u>middleware</u>. It is used to create other programs or applications
- ENKIDOU-based applications can be used for any engineering design and optimization problems: crash, fatigue, NVH, fluid dynamics, etc ...
- Many problems solved using ENKIDOU cannot be approached with other systems (I-Sight, NOEMIS, ...)
- Each application is <u>specific</u>, but ENKIDOU is always the same ...

ENKIDOU: SimTech PROPRIETARY SOFTWARE

- Java-based library for the development of custom software
- SimTech proprietary software
- Helps to focus on the engineering problem at hand
 - All/Most routine tasks are carried out in high level ENKIDOU classes
 - I/O (disk, openGL, external codes) are standardized
- Improve the quality of the application
 - Quality assurance is at ENKIDOU level
 - Each application profits from the experience of all the others
- Shorten development time
 - Factor 10 wrt Java from scratch
 - Factor 2-3 wrt to QT, open Inventor etc ...



ENKIDOU is a Java-based library of components (API) for the development of interactive, graphic environments for VERTICAL APPLICATIONS. ENKIDOU applications can use ENKIDOU GUI or the customer's GUI.

ENKIDOU includes about 2000 classes. Main features:

- Task structure (process automation)
- •Integration between design space and CAE model
- •Multi mesh model
- ·Data structure
- Disk I/O management
- Java/openGL link
- ·High level components



BUSINESS MODEL CUSTOM SOFTWARE

MOST SIMTECH PROJECTS INVOLVE THE DEVELOPMENT OF SPECIFIC SOFTWARE

- ENKIDOU is the property of SimTech
- The application is the property of the Client

WE USE OUR ENKIDOUTM API TO DEVELOP CUSTOM APPLICATIONS

7 Ko Executable Jar File 16/06/2009 06:53
5 Ko Executable Jar File 16/06/2009 06:52
7 Ko Executable Jar File 16/06/2009 06:53
3 Ko Executable Jar File 27/09/2004 16:59







SOME ENKIDOU APPLICATIONS ARE AVAILABLE FOR SALE

BarrLier: virtual testing of road restraining systems (marketed by LIER) EnkiBonnet: bonnet design for pedestrian compliance (marketed by SimTech)

Recent ENKIDOU Applications

- Roller Bearing Maker: Knowledge-based product design
- *Certified Test Lab:* Virtual testing of road barriers
- Engineering conglomerate: MDO for rail transport systems
- Automotive OEM: Assembly line simulation
- Automotive OEM: Crushed beam optimal design
- (several customers): Composite design
- Automotive OEM: Springback compensation for metal forming tools
- Automotive OEM : Fatigue analysis
- Software Vendor: Metal forming tool generation
- *Internal SimTech:* Pedestrian compliance design of bonnets, Super element design, Vibration analysis, Statistical analysis tools, ...







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ENKIDOU IoData: specialized database for scientific computing













Road Barrier Virtual Testing

EnkiBonnet





Bonnet Design for Pedestrian Safety