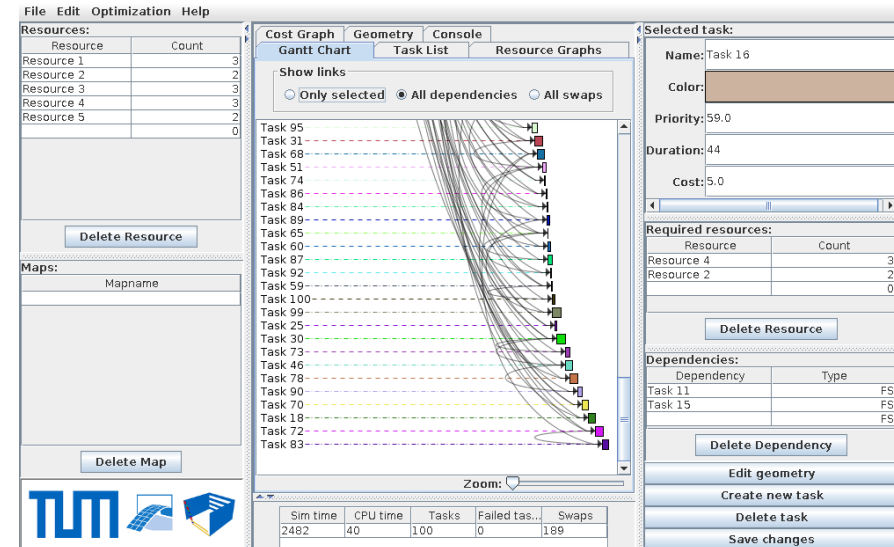


ultimaTUM – Intelligent Scheduling System

Project Characteristics

Modeling: ★★★★★☆
 Mathematics: ★★★★★☆
 Programming: ★★★★★★

- UltimaTUM is a framework for **creating, simulating, and optimizing construction schedules** taking resource limits and geometric constraints into account.
- In order to improve on the usability of the software, a number of improvements are desired.
- Those improvements include:
 - **graphical user interface** (General interface, Task editor, geometry editor, (3D) visualization of the results).
 - **optimization algorithms** (search tree based, multi-criteria optimization, optimization using complex criteria).
 - methods for the **automatic generation of scenarios from building information models**.



- Programming language: **Java**