

ISTE - CLUTCH

ADDITIVE MANUFACTURING SIMULATION

RAGHAV GANESH

MATCHA NITIN

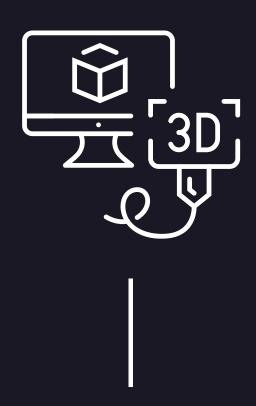
D KARAN

SHAIK DILSHAD

THAKUR OM

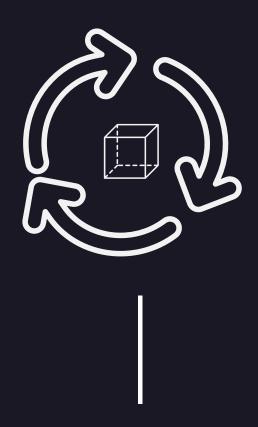
LUCKY RAYI

MINI TASKS



Heat Source Models

- -> Uniform x2
- -> Gaussian x2
- -> Goldaks DE



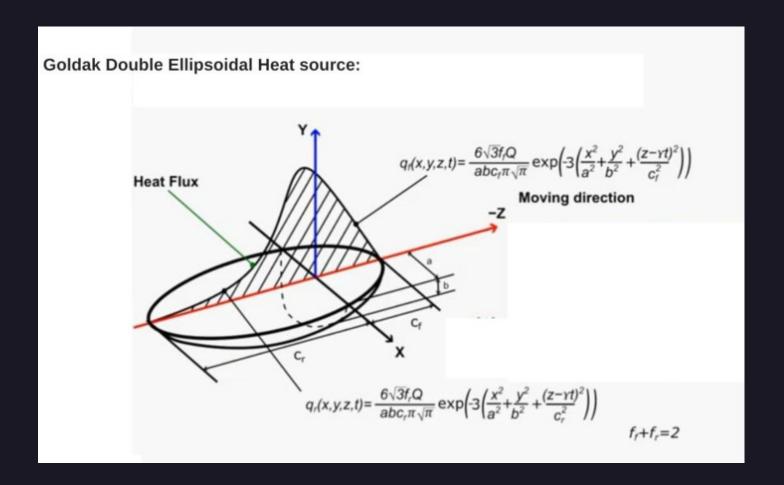
Birth & Death Simulation



Reverse Engineering Simulation

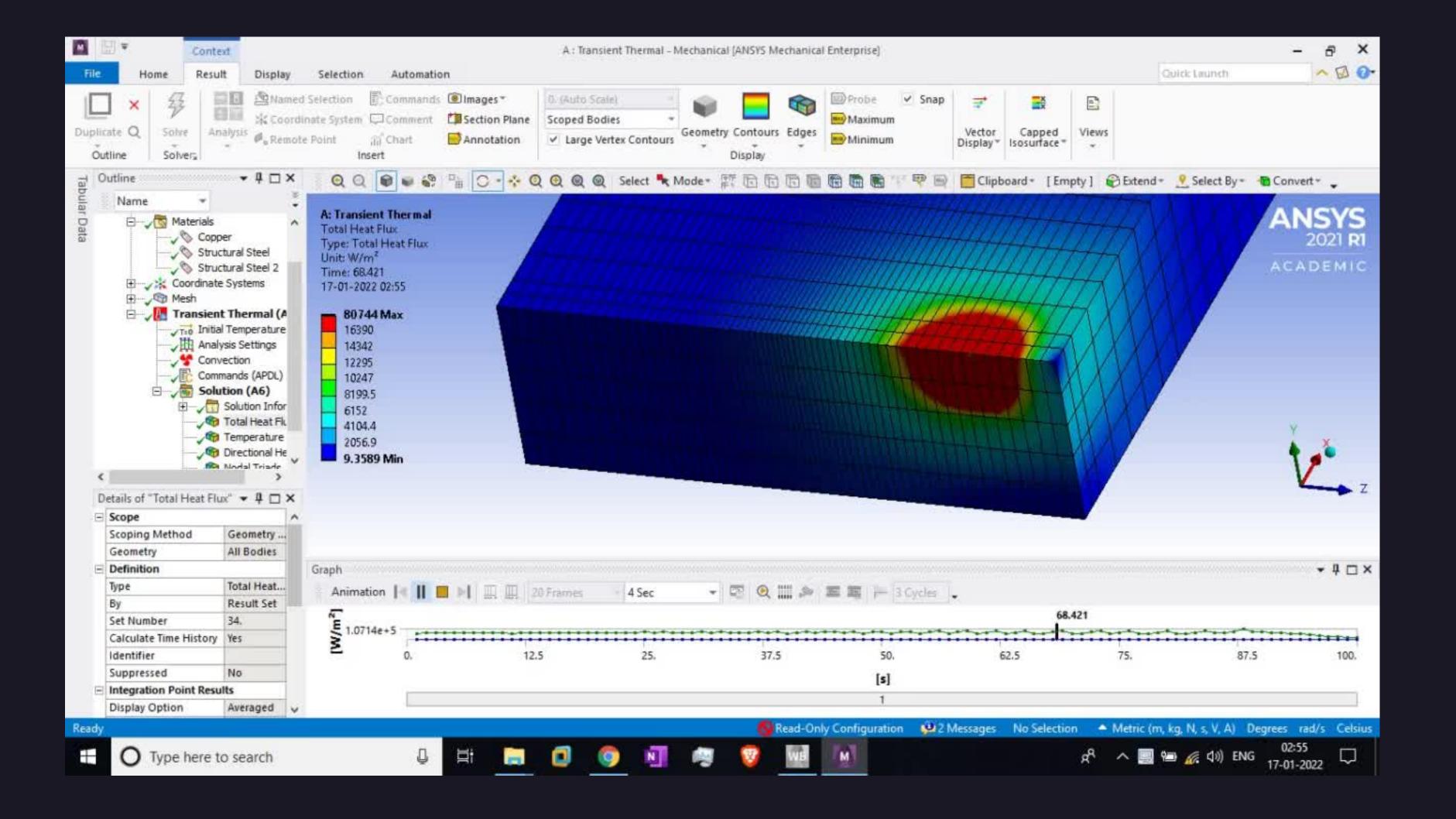
HEAT SOURCE SIMULATIONS

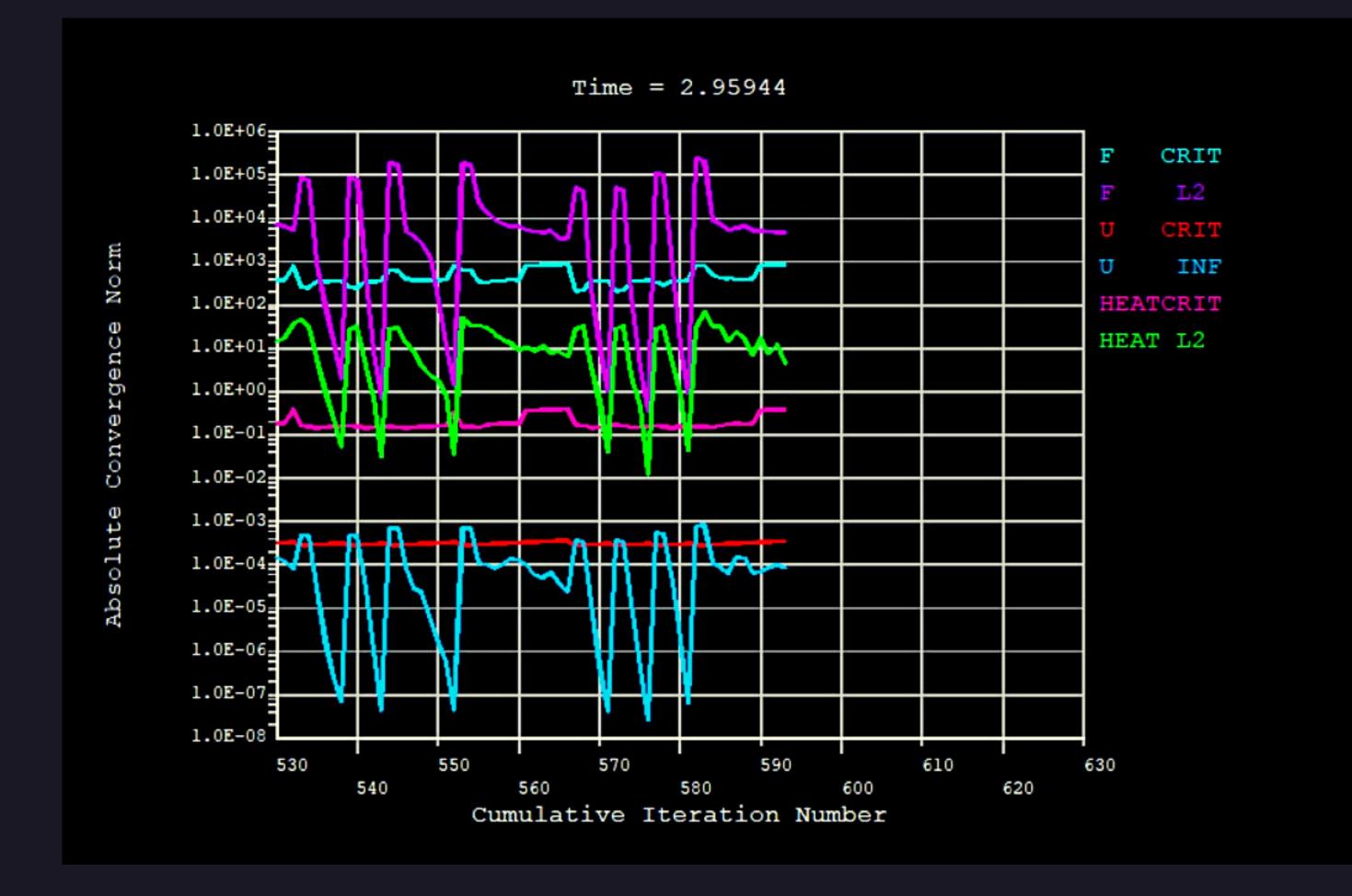
- APDL Scripting.
- Transient thermal analysis.
- Encountered several errors.
- Debugging.

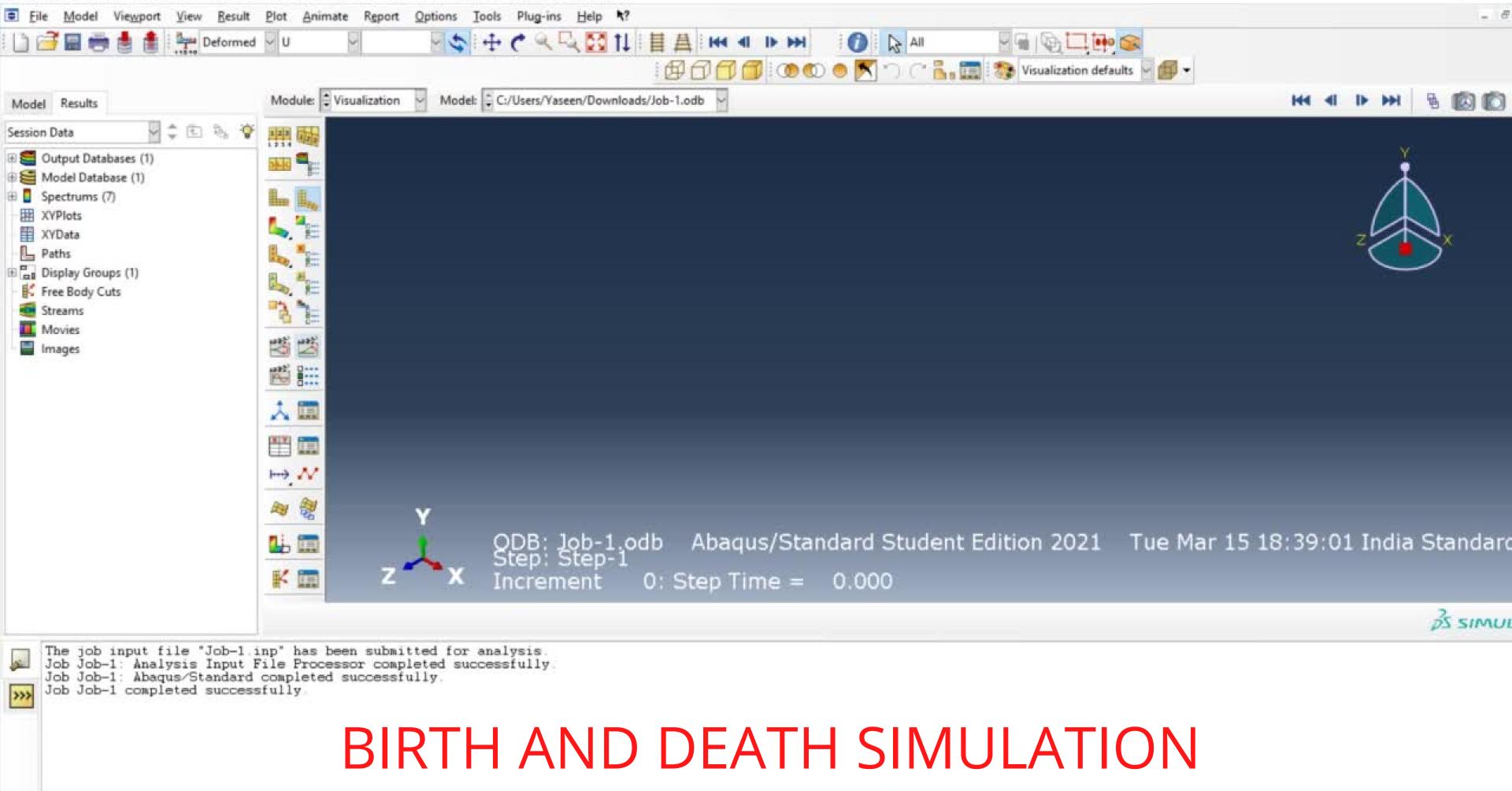


REVERSE ENGINEERING

- Analyzing .dat and .cdb files of FSW.
- Documenting the findings.





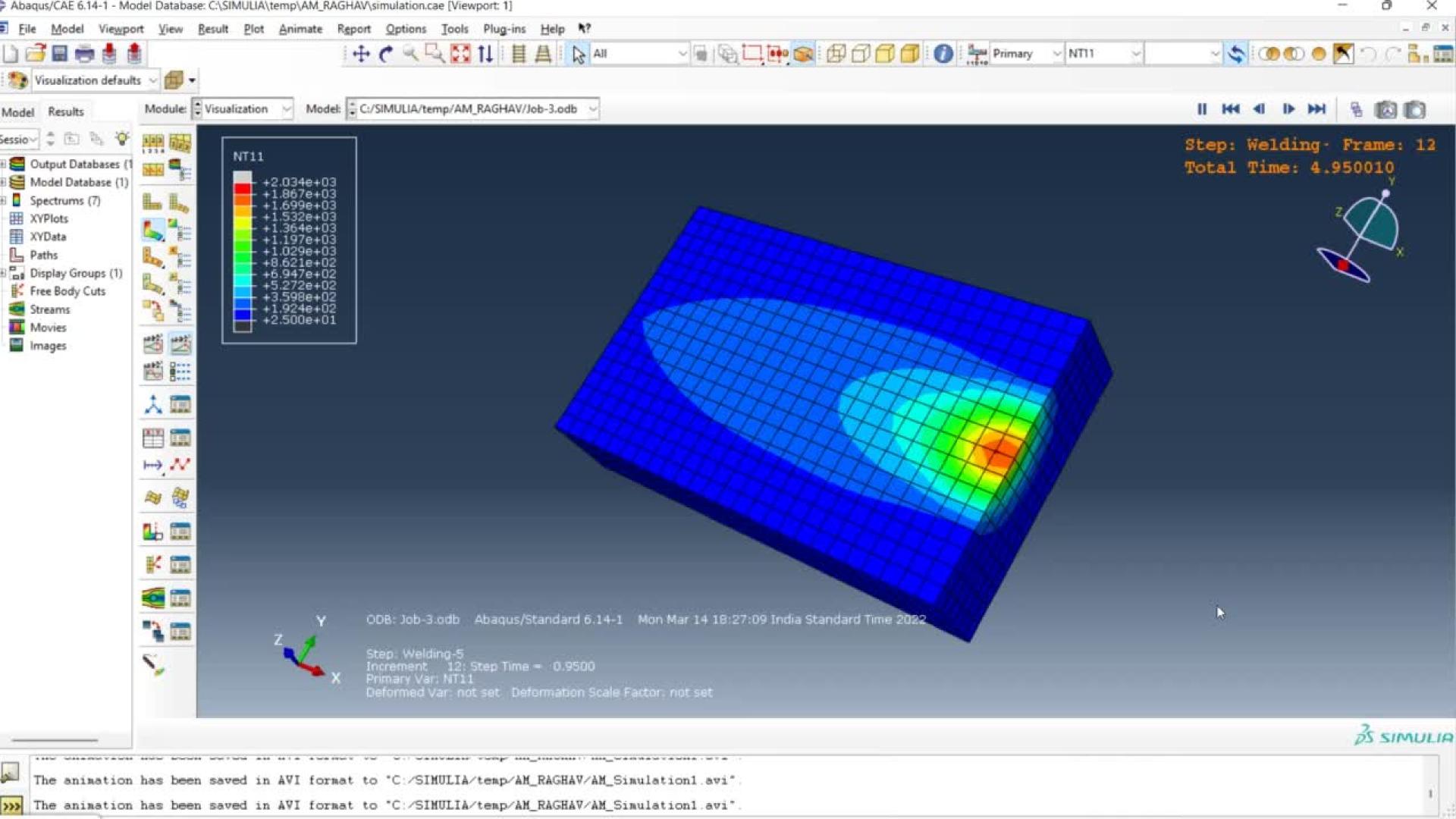


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POINTERS

- Built MVP for simulation
- Integrated & Analyzed Goldak's Double ellipsoidal model for AM simulation
- Wrote several scripts in fortran for HeatFlux simulations
- Implemented Birth and Death technique using python
- Heterogenous Computing + Advanced threading + parallelization
- Implemented Residual Stress analysis to validate Product Quality Testing



THANK YOU