Thermal Stresses in a Bar - Verification & Validation

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Verification & Validation

Note

Normally, in this step we would validate our solution by refining the mesh and then verify the solution by comparing the solution to our pre-analysis. However, let's begin by looking at the verification.

Verification

It is always important to verify your simulation. Without verification, you have no proof that your simulation is usable. Let's compare our stress result to our pre-analysis.

	Pre-Analysis	**Simulation**
Stress	-1.6E8 Pa	-1.6E8 Pa

The pre-analysis matches our simulation perfectly. Therefore, there is no need to further refine the mesh.

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