

# One-step Solution: Fast Computational Speeds & Simplicity of Input

The new one-step solver from LS-DYNA provides excellent results:

**Fast, robust and easy to use**

- Job finishes in minutes or seconds

## Application:

- Initial blank size prediction for stamping process
- Advanced formability assessment including thickness reduction, plastic strain
- Material cost estimation
- Forming effects model initialization for crash safety, NVH, and durability simulations

## Feature:

- Support multiple parts
- Support for a tabulated and anisotropic plasticity model
- Support for a under integrated and fully integrated quadrilateral shells
- Support draw beads and friction
- Damage predictions
- Rigid body motions are automatically constrained

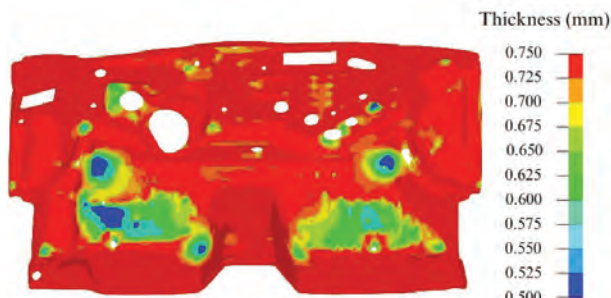
## Upcoming Training Classes at LSTC

### in California

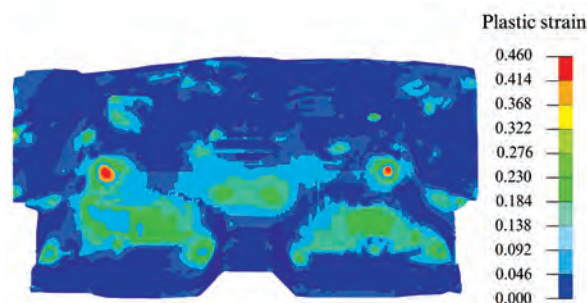
- **Oct 3** Intro to LS-PrePost
- **Nov 1-4** Intro to LS-DYNA
- **Nov 7-8** NVH & Frequency Domain Analysis

### in Michigan

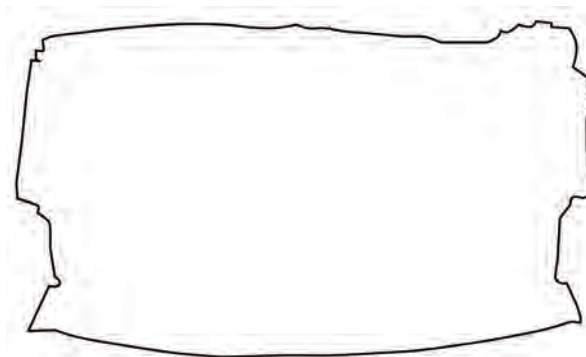
- **Oct 25-28** Optimization, Probabilistic Design Using LS-OPT
- **Dec 8-9** Adv. Impact
- **Dec 12** Intro to LS-PrePost
- **Dec 13-16** Intro to LS-DYNA



Contours of shell thickness  
min=0.538193, at elem# 3209452  
max=0.974493, at elem# 3211511



Contours of plastic strain  
max ipt. value  
min=0, at elem# 3008783  
max=0.46, at elem# 3210698



Unfolded (flat) blank size

**For More Information and/or a 30-day LS-DYNA demo license  
email: [sales@lstc.com](mailto:sales@lstc.com)**