

# Comparison of Triangular, Cell-Centered Strand, and Node-Centered Strand Grid methods

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This is an abstract[1]

## I. Introduction

Shauns stuff [2] [3]

## II. Numerical Methods

### A. Triangular Grid

Shauns stuff

### B. Cell-Centered Grid

Shauns stuff [4]

### C. Node-Centered Grid

Stuff again

## III. Results

We will compare the results from the plate and bump cases from each of the grid codes.

### A. Flat Plate

comparison of the flat plate stuff

### B. Bump

The general bump is outlined by NASA stuff

#### 1. Subsonic

This is what it looks like

#### 2. Transonic

and what it looks like when you run it a bit faster

## IV. Conclusions

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## References

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- [2] Bhutta, B. A. and Lewis, C. H., "Large-Angle-of-Attack Viscous Hypersonic Flows over Complex Lifting Configurations," *Journal of Spacecraft and Rockets*, Vol. 27, No. 2, 1990, pp. 194–204, also AIAA Paper 89–0269, Jan. 1989.
- [3] Wirin, W. B., "Space Debris 1989," *Proceedings of the Thirty-Second Colloquium on the Law of Outer Space*, AIAA, Washington, DC, 1990, pp. 184–196.
- [4] Tufte, E. R., *The Visual Display of Quantitative Information*, Graphics Press, 1983.