

Summary of test case C1.5 (Radial Expansion Wave)

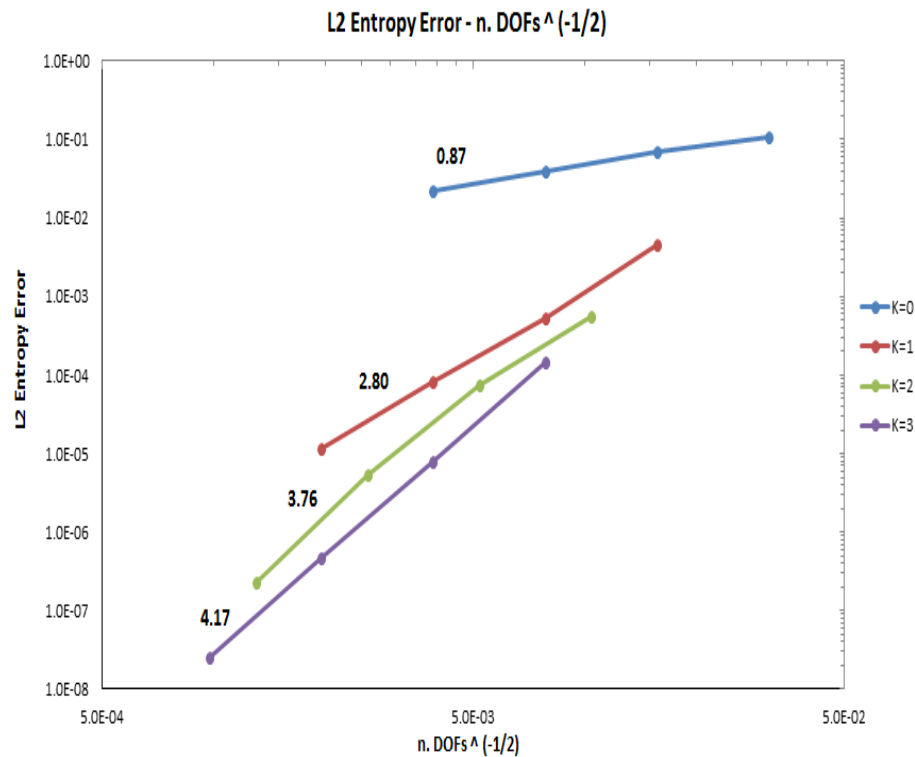
Contributions:

- Garcia-Uceda, Hirsch – NUMECA International
- Fernandez, Boom, Zingg, Hicken – Toronto University

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Test Case C1.5 – Radial Expansion Wave

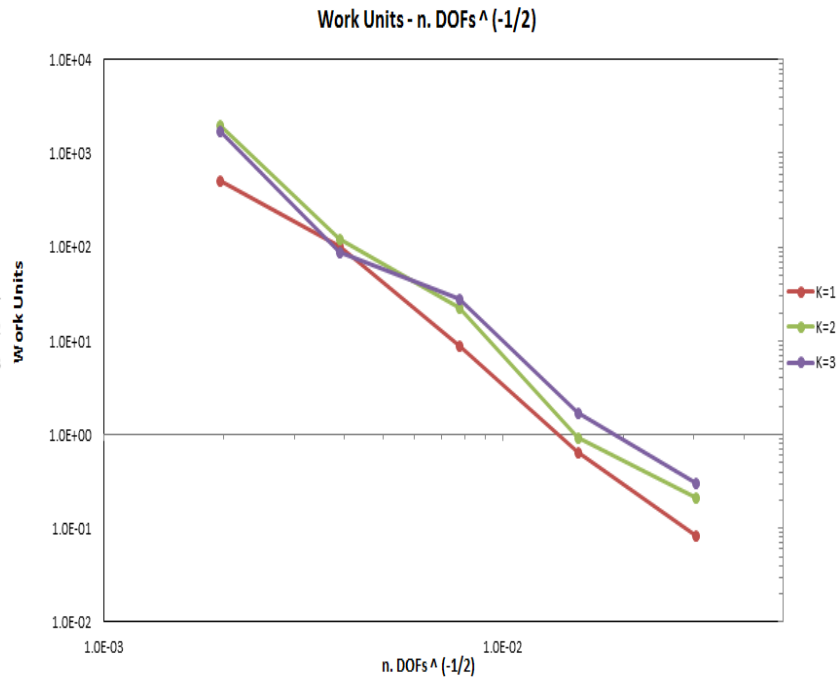
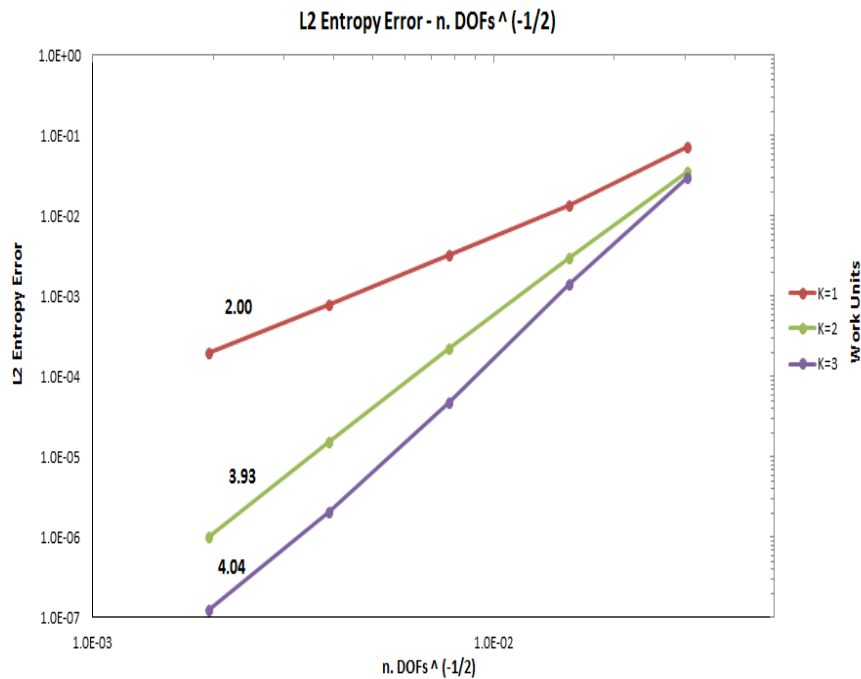
- Results reported by Garcia-Uceda, Hirsch.
- (Early stage FR solver: No Work Units data available).



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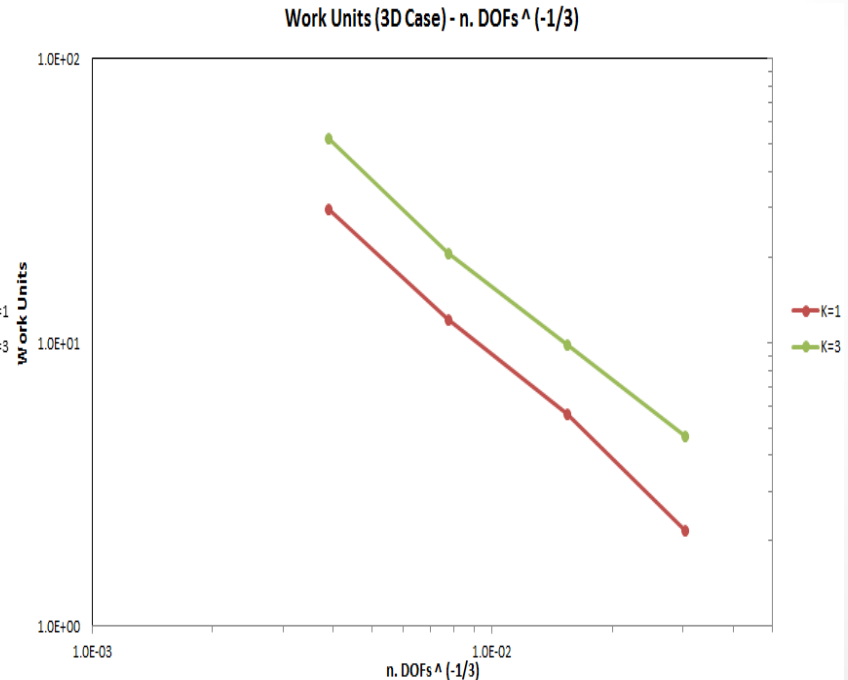
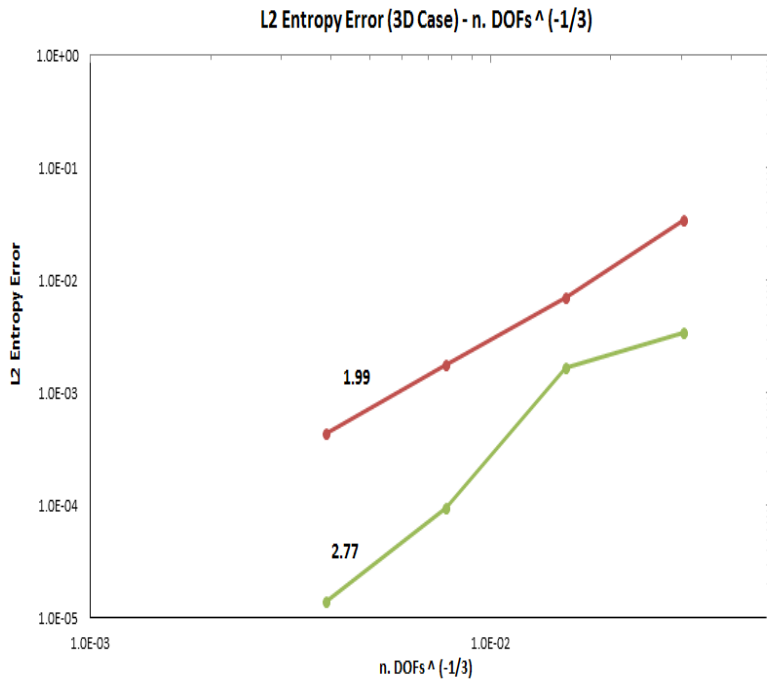
- Results reported by Fernandez, Boom, Zingg, Hicken (2D Case).



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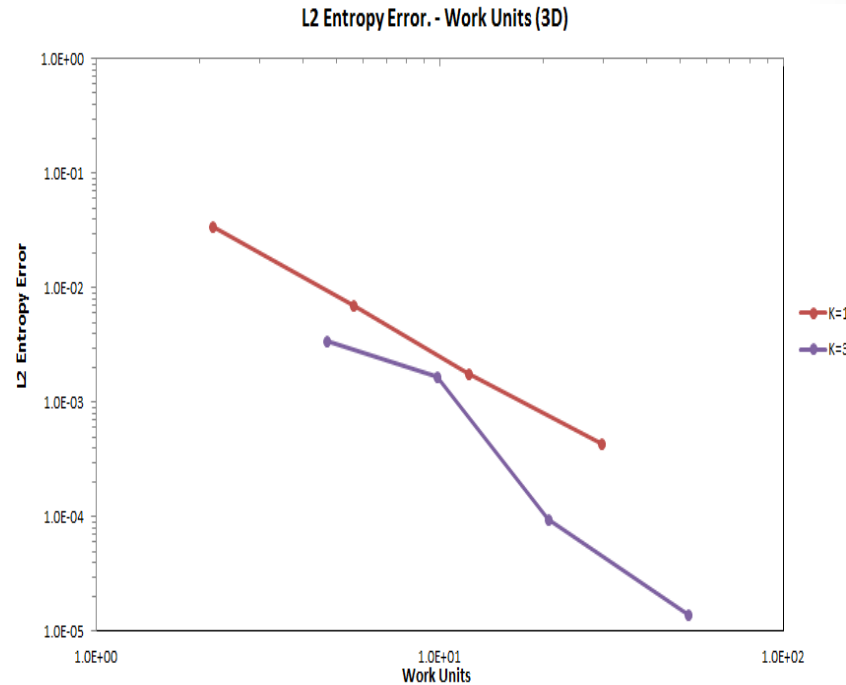
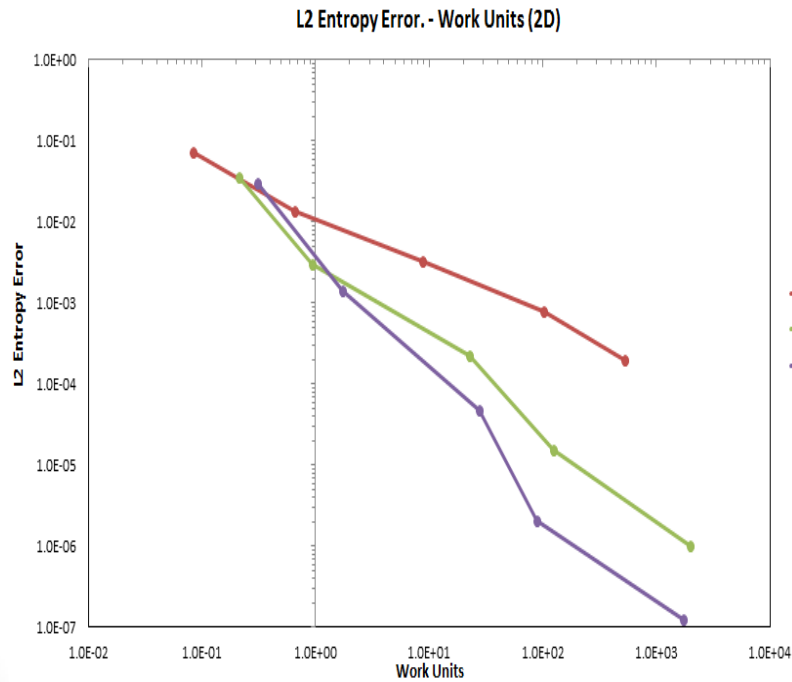
- Results reported by Fernandez, Boom, Zingg, Hicken (3D Case).



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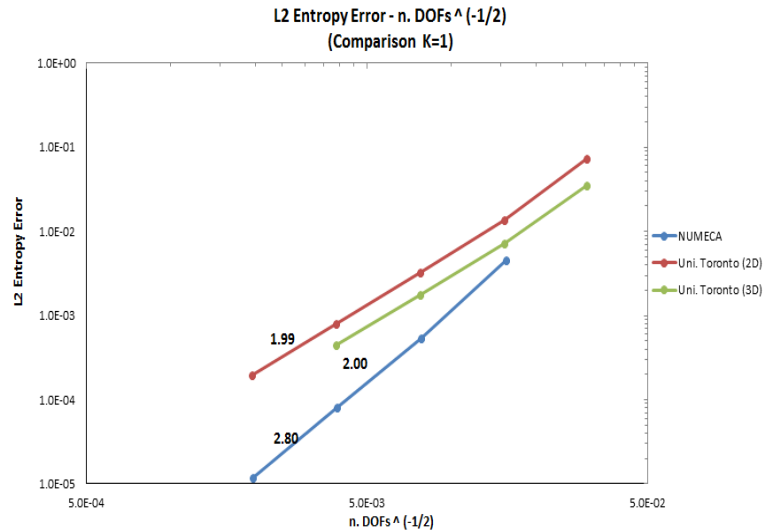
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- Results reported by Fernandez, Boom, Zingg, Hicken (Ent. Error – Work Units).



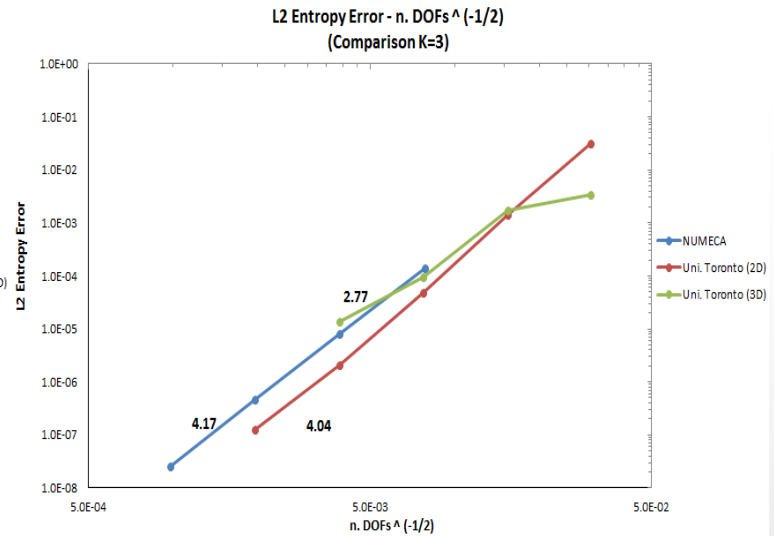
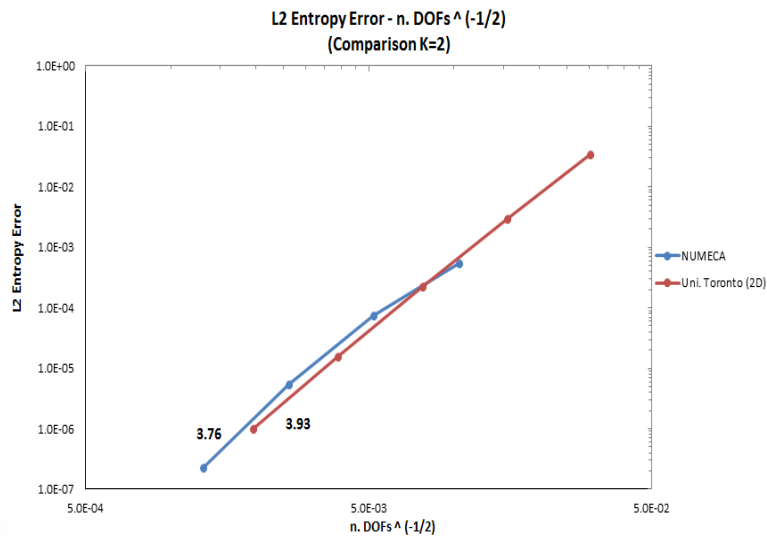
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Comparison of results:

- Garcia-Uceda, Hirsch.
- Fernandez, Boom, Zingg, Hicken.



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- Conclusions:
 - Similar levels of accuracy for both solutions submitted.
 - Expected order of accuracy ($K+1$) is achieved by both results. Up to $K=3$, results seem to exhibit super-accuracy ($2K+1$).
 - Plotting entropy errors vs. work units, higher-order methods are consistently more efficient.

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Thank you for your attention!