

In support of the FY01 Accelerated Strategic Computing Initiative Normal Environment Level 1 Milestone, the ALEGRA code development team successfully completed calculation of contact fuze electromechanical operation during target impact at termination of flight for a W76 Reentry Body. This calculation showcased the Adaptive Mesh Refinement (AMR) and Arbitrary Lagrangian-Eulerian (ALE) capabilities of the ALEGRA code. (9200) Edward Boucheron, eabouch@sandia.gov

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His area uses ALEGRA to implement full-wave electromagnetic techniques for certifying the W76-1 to normal environments, for design and performance of the W76-1 radar fuze, to couple those techniques with charged particle-in-cell techniques for certifying to hostile environments, and for modeling power flow in pulsed power accelerators

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