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**Performance evaluation of multigrid solvers for block  
structured adaptive mesh refinement discretizations**

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We evaluate performance of multigrid via algorithm parameters for solves of block structured adaptive mesh refinement discretizations. We consider algebraic and geometric multigrid, composite and level-by-level methods, multiplicative and additive smoothers, FAS and CS multigrid (although our test problems are linear). We test with scaling studies on the Cray XE6 Edison at NERSC.