

Capability	Algorithm
Preconditioners	Jacobi point block Jacobi block Jacobi additive Schwarz
Incomplete factorizations	ILU dt
Matrix-free	infrastructure
Multigrid	infrastructure geometric (DMDA for structured grid) geometric/algebraic structured geometric classical algebraic (BoomerAMG/hypre) classical algebraic (ML/Trilinos) unstructured geometric and smoothed aggregation
Physics-based splitting	relaxation and Schur-complement least squares commutator
Approximate inverses	approximate inverses
Substructuring	balancing Neumann-Neumann BDDC
Krylov methods	Richardson, Chebyshev, conjugate gradients, GMRES, Bi-CG-stab, transpose free QMR, conjugate residuals, conjugate gradient squared, bi-conjugate gradient , MINRES, flexible GMRES, LSQR, SYMMLQ, LGMRES, GCR , Conjugate gradient on the normal equations