

Parallel Numerical Components of PETSc

Nonlinear Solvers		
Newton-based Methods		Other
Line Search	Trust Region	

Time Steppers			
General Linear	IMEX	Pseudo-Time Stepping	Runge-Kutta

Krylov Subspace Methods							
GMRES	CG	CGS	Bi-CG-Stab	TFQMR	Richardson	Chebyshev	Other

Preconditioners						
Additive Schwarz	Block Jacobi	Jacobi	ILU	ICC	LU (sequential only)	Other

Matrices				
Compressed Sparse Row (AIJ)	Block Compressed Sparse Row (BAIJ)	Symmetric Block Compressed Row (SBAIJ)	Dense	Other

Vectors

Index Sets			
Indices	Block Indices	Stride	Other