

Matrix Type	Operation	S	C	D	Z
General	Factorize and solve	SGESV	CGESV	DGESV	ZGESV
	Factorize and solve with iterative refinement				
	LU factorization		CGETRF	DGETRF	ZGETRF
	Solve using LU factorization				
	Invert using LU factorization		SGETRS	CGETRS	DGETRS
Positive Definite	Factorize and solve	SGETRI	CGETRI	DGETRI	ZGETRI
	Cholesky factorization				
Triangular	Invert triangular matrix	SPOSV	CPOSV	DPOSV	ZPOSV
	Solve triangular system				
Banded	LU factorization	SPOTRF	CPOTRF	DPOTRF	ZPOTRF
	Cholesky factorization				
Pos Def Banded	LU factorization	STRTRI	CTRTRI	DTRTRI	ZTRTRI
	Cholesky factorization				
		STRTRS	CTRTRS	DTRTRS	ZTRTRS
		SGBTRF	CGBTRF	DGBTRF	ZGBTRF
		SPBTRF	CPBTRF	DPBTRF	ZPBTRF