

NAG C Library Chapter Contents

f04 – Simultaneous Linear Equations

f04 Chapter Introduction

Routine Name	Mark of Introduction	Purpose
f04adc	1	nag_complex_lin_eqn_mult_rhs Approximate solution of complex simultaneous linear equations with multiple right-hand sides
f04agc	1	nag_real_cholesky_solve_mult_rhs Approximate solution of real symmetric positive-definite simultaneous linear equations (coefficient matrix already factorized by nag_real_cholesky (f03aec))
f04ajc	1	nag_real_lu_solve_mult_rhs Approximate solution of real simultaneous linear equations (coefficient matrix already factorized by nag_real_lu (f03afc))
f04akc	1	nag_complex_lu_solve_mult_rhs Approximate solution of complex simultaneous linear equations (coefficient matrix already factorized by nag_complex_lu (f03ahc))
f04arc	1	nag_real_lin_eqn Approximate solution of real simultaneous linear equations, one right-hand side
f04awc	1	nag_hermitian_lin_eqn_mult_rhs Approximate solution of complex Hermitian positive-definite simultaneous linear equations (coefficient matrix already factorized by nag_complex_cholesky (f01bnc))
f04bac	8	nag_real_gen_lin_solve Computes the solution and error-bound to a real system of linear equations
f04bbc	8	nag_real_band_lin_solve Computes the solution and error-bound to a real banded system of linear equations
f04bcc	8	nag_real_tridiag_lin_solve Computes the solution and error-bound to a real tridiagonal system of linear equations
f04bdc	8	nag_real_sym_posdef_lin_solve Computes the solution and error-bound to a real symmetric positive-definite system of linear equations
f04bec	8	nag_real_sym_posdef_packed_lin_solve Computes the solution and error-bound to a real symmetric positive-definite system of linear equations, packed storage
f04bfc	8	nag_real_sym_posdef_band_lin_solve Computes the solution and error-bound to a real symmetric positive-definite banded system of linear equations
f04bgc	8	nag_real_sym_posdef_tridiag_lin_solve Computes the solution and error-bound to a real symmetric positive-definite tridiagonal system of linear equations
f04bhc	8	nag_real_sym_lin_solve Computes the solution and error-bound to a real symmetric system of linear equations
f04bjc	8	nag_real_sym_packed_lin_solve Computes the solution and error-bound to a real symmetric system of linear equations, packed storage
f04cac	8	nag_complex_gen_lin_solve Computes the solution and error-bound to a complex system of linear equations
f04cbc	8	nag_complex_band_lin_solve Computes the solution and error-bound to a complex banded system of linear equations

f04ccc	8	nag_complex_tridiag_lin_solve Computes the solution and error-bound to a complex tridiagonal system of linear equations
f04cdc	8	nag_herm_posdef_lin_solve Computes the solution and error-bound to a complex Hermitian positive-definite system of linear equations
f04cec	8	nag_herm_posdef_packed_lin_solve Computes the solution and error-bound to a complex Hermitian positive-definite system of linear equations, packed storage
f04cfc	8	nag_herm_posdef_band_lin_solve Computes the solution and error-bound to a complex Hermitian positive-definite banded system of linear equations
f04cgc	8	nag_herm_posdef_tridiag_lin_solve Computes the solution and error-bound to a complex Hermitian positive-definite tridiagonal system of linear equations
f04chc	8	nag_herm_lin_solve Computes the solution and error-bound to a complex Hermitian system of linear equations
f04cjc	8	nag_herm_packed_lin_solve Computes the solution and error-bound to a complex Hermitian system of linear equations, packed storage
f04dhc	8	nag_complex_sym_lin_solve Computes the solution and error-bound to a complex symmetric system of linear equations
f04djc	8	nag_complex_sym_packed_lin_solve Computes the solution and error-bound to a complex symmetric system of linear equations, packed storage.
f04mcc	1	nag_real_cholesky_skyline_solve Approximate solution of real symmetric positive-definite variable-bandwidth simultaneous linear equations (coefficient matrix already factorized by nag_real_cholesky_skyline (f01mcc))
