NAG Library Chapter Contents

C06 – Summation of Series

C06 Chapter Introduction

Routine Name	Mark of Introduction	Purpose
C06BAF	10	nagf_sum_accelerate Acceleration of convergence of sequence, Shanks' transformation and epsilon algorithm
C06DCF	23	nagf_sum_chebyshev Sum of a Chebyshev series at a set of points
C06EAF	8	nagf_sum_withdraw_fft_real_ld_nowork Single one-dimensional real discrete Fourier transform, no extra workspace Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further
C06EBF	8	information. nagf_sum_withdraw_fft_hermitian_1d_nowork Single one-dimensional Hermitian discrete Fourier transform, no extra workspace Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further
C06ECF	8	information. nagf_sum_withdraw_fft_complex_1d_nowork Single one-dimensional complex discrete Fourier transform, no extra workspace Note: this routine is scheduled for withdrawal at Mark 26, see
C06EKF	11	Advice on Replacement Calls for Withdrawn/Superseded Routines for further information. nagf_sum_withdraw_convcorr_real_nowork Circular convolution or correlation of two real vectors, no extra workspace Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further
C06FAF	8	information. nagf_sum_fft_real_1d_rfmt Single one-dimensional real discrete Fourier transform, extra workspace for
C06FBF	8	greater speed nagf_sum_fft_hermitian_1d_rfmt Single one-dimensional Hermitian discrete Fourier transform, extra workspace for greater speed
C06FCF	8	nagf_sum_fft_complex_1d_sep Single one-dimensional complex discrete Fourier transform, extra workspace for greater speed
C06FFF	11	nagf_sum_fft_complex_multid_ld_sep One-dimensional complex discrete Fourier transform of multidimensional data
C06FJF	11	nagf_sum_fft_complex_multid_sep Multidimensional complex discrete Fourier transform of multidimensional data
C06FKF	11	nagf_sum_convcorr_real Circular convolution or correlation of two real vectors, no restrictions on n
C06FPF	12	nagf_sum_fft_real_1d_multi_rfmt Multiple one-dimensional real discrete Fourier transforms
C06FQF	12	nagf_sum_fft_hermitian_1d_multi_rfmt Multiple one-dimensional Hermitian discrete Fourier transforms

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C06FRF	12	nagf_sum_withdraw_fft_complex_1d_multi_rfmt Multiple one-dimensional complex discrete Fourier transforms
		Note : this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further
C06FUF	13	information. nagf_sum_withdraw_fft_complex_2d_sep
		Two-dimensional complex discrete Fourier transform Note: this routine is scheduled for withdrawal at Mark 26, see
		Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.
C06FXF	17	nagf_sum_fft_complex_3d_sep Three-dimensional complex discrete Fourier transform
C06GBF	8	nagf_sum_withdraw_conjugate_hermitian_rfmt Complex conjugate of Hermitian sequence
		Note : this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.
C06GCF	8	nagf_sum_withdraw_conjugate_complex_sep
		Complex conjugate of complex sequence Note: this routine is scheduled for withdrawal at Mark 26, see
		Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.
C06GQF	12	nagf_sum_withdraw_conjugate_hermitian_mult_rfmt Complex conjugate of multiple Hermitian sequences
		Note : this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further
COCCGE	12	information.
C06GSF	12	nagf_sum_withdraw_convert_herm2complex_sep Convert Hermitian sequences to general complex sequences
		Note : this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.
C06HAF	13	nagf_sum_withdraw_fft_real_sine
		Discrete sine transform Note: this routine is scheduled for withdrawal at Mark 26, see
		Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.
C06HBF	13	nagf_sum_withdraw_fft_real_cosine Discrete cosine transform
		Note : this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further
C06HCF	13	information. nagf sum withdraw fft real qtrsine
Coorier	13	Discrete quarter-wave sine transform
		Note : this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further
C06HDF	13	information. nagf_sum_withdraw_fft_real_qtrcosine
		Discrete quarter-wave cosine transform Note: this routine is scheduled for withdrawal at Mark 26, see
		Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.
C06LAF	12	nagf_sum_invlaplace_crump
C06LBF	14	Inverse Laplace transform, Crump's method nagf_sum_invlaplace_weeks
C06LCF	14	Inverse Laplace transform, modified Weeks' method nagf_sum_invlaplace_weeks_eval
		Evaluate inverse Laplace transform as computed by C06LBF

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C06PAF	19	nagf_sum_fft_realherm_1d
		Single one-dimensional real and Hermitian complex discrete Fourier
		transform, using complex storage format for Hermitian sequences
C06PCF	19	nagf_sum_fft_complex_1d
		Single one-dimensional complex discrete Fourier transform, complex data
		type
C06PFF	19	nagf_sum_fft_complex_multid_1d
		One-dimensional complex discrete Fourier transform of multidimensional
COCRIE	1.0	data (using complex data type)
C06PJF	19	nagf_sum_fft_complex_multid
		Multidimensional complex discrete Fourier transform of multidimensional
COCDICE	10	data (using complex data type)
C06PKF	19	nagf_sum_convcorr_complex
C06PPF	19	Circular convolution or correlation of two complex vectors
CUOPPF	19	nagf_sum_fft_realherm_1d_multi_row Multiple one-dimensional real and Hermitian complex discrete Fourier
		transforms, using row ordered complex storage format for Hermitian
		sequences
C06PQF	19	nagf sum fft realherm 1d multi col
Coor Qr	19	Multiple one-dimensional real and Hermitian complex discrete Fourier
		transforms, using column ordered complex storage format for Hermitian
		sequences
C06PRF	19	nagf sum fft complex 1d multi row
Coorid	17	Multiple one-dimensional complex discrete Fourier transforms using complex
		data type
C06PSF	19	nagf sum fft complex 1d multi col
000121		Multiple one-dimensional complex discrete Fourier transforms, complex data
		type
C06PUF	19	nagf_sum_fft_complex_2d
		Two-dimensional complex discrete Fourier transform, complex data type
C06PVF	24	nagf sum fft real 2d
		Two-dimensional real-to-complex discrete Fourier transform
C06PWF	24	nagf_sum_fft_hermitian_2d
		Two-dimensional complex-to-real discrete Fourier transform
C06PXF	19	nagf_sum_fft_complex_3d
		Three-dimensional complex discrete Fourier transform, complex data type
C06PYF	24	nagf_sum_fft_real_3d
		Three-dimensional real-to-complex discrete Fourier transform
C06PZF	24	nagf_sum_fft_hermitian_3d
		Three-dimensional complex-to-real discrete Fourier transform
C06RAF	19	nagf_sum_fft_real_sine_simple
COCRRE	10	Discrete sine transform (easy-to-use)
C06RBF	19	nagf_sum_fft_real_cosine_simple
COCRCE	1.0	Discrete cosine transform (easy-to-use)
C06RCF	19	nagf_sum_fft_real_qtrsine_simple
COCRDE	10	Discrete quarter-wave sine transform (easy-to-use)
C06RDF	19	nagf_sum_fft_real_qtrcosine_simple Discrete quarter-wave cosine transform (easy-to-use)
C06REF	25	nagf sum fft sine
COOKET	23	Multiple discrete sine transforms, simple
C06RFF	25	nagf_sum_fft_cosine
COOKIT	43	Multiple discrete cosine transforms, simple
C06RGF	25	nagf_sum_fft_qtrsine
Cooker	23	Multiple discrete quarter-wave sine transforms, simple
C06RHF	25	nagf_sum_fft_qtrcosine
0.0011111	20	Multiple discrete quarter-wave cosine transforms, simple
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