## NAG Library Chapter Contents

## C06 - Summation of Series

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\begin{array}{lcl}\begin{array}{l}\text { C06 Chapter Introduction } \\
\text { Routine } \\
\text { Mark of } \\
\text { Name }\end{array} & \begin{array}{c}\text { Introduction } \\
\text { C06BAF }\end{array} & 10\end{array}
$$ \begin{array}{l}Purpose <br>
nagf_sum_accelerate <br>
Acceleration of convergence of sequence, Shanks' transformation and epsilon <br>

algorithm\end{array}\right]\)| nagf_sum_withdraw_chebyshev |
| :--- |
| Sum of a Chebyshev series |
| Note: this routine is scheduled for withdrawal at Mark 25, see Advice on |
| Replacement Calls for Withdrawn/Superseded Routines for further information. |


| C06FKF | 11 | nagf_sum_convcorr_real <br> Circular convolution or correlation of two real vectors, extra workspace for greater speed |
| :---: | :---: | :---: |
| C06FPF | 12 | nagf_sum_fft_real_1d_multi_rfmt <br> Multiple one-dimensional real discrete Fourier transforms |
| C06FQF | 12 | nagf_sum_fft_hermitian_1d_multi_rfmt <br> Multiple one-dimensional Hermitian discrete Fourier transforms |
| C06FRF | 12 | nagf_sum_withdraw_fft_complex_1d_multi_rfmt <br> Multiple one-dimensional complex discrete Fourier transforms <br> Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information. |
| C06FUF | 13 | nagf_sum_withdraw_fft_complex_2d_sep <br> Two-dimensional complex discrete Fourier transform <br> Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.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 <br> Three-dimensional complex discrete Fourier transform |
| C06GBF | 8 | nagf_sum_withdraw_conjugate_hermitian_rfmt <br> Complex conjugate of Hermitian sequence <br> Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.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 <br> Complex conjugate of complex sequence <br> Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information.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 information. |
| C06GSF | 12 | nagf_sum_withdraw_convert_herm2complex_sep <br> Convert Hermitian sequences to general complex sequences <br> 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 <br> Discrete sine transform <br> 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 <br> Discrete cosine transform <br> Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information. |
| C06HCF | 13 | nagf_sum_withdraw_fft_real_qtrsine <br> Discrete quarter-wave sine transform <br> Note: this routine is scheduled for withdrawal at Mark 26, see Advice on Replacement Calls for Withdrawn/Superseded Routines for further information. |
| C06HDF | 13 | nagf_sum_withdraw_fft_real_qtrcosine <br> Discrete quarter-wave cosine transform <br> 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 <br> Inverse Laplace transform, Crump's method |


| C06LBF | 14 | nagf_sum_invlaplace_weeks <br> Inverse Laplace transform, modified Weeks' method <br> nagf_sum_invlaplace_weeks_eval <br> Evaluate inverse Laplace transform as computed by C06LBF |
| :--- | :---: | :--- |
| C06LCF | 14 | 19 | | nagf_sum_fft_realherm_1d |
| :--- |
| C06PAF |

19 nagf_sum_fft_real_qtrcosine_simple
Discrete quarter-wave cosine transform (easy-to-use)

