

NAG Library Chapter Contents

C09 – Wavelet Transforms

C09 Chapter Introduction

| Routine Name | Mark of Introduction | Purpose |
|---------------------|-----------------------------|---|
| C09AAF | 22 | nagf_wav_1d_init One-dimensional wavelet filter initialization |
| C09ABF | 23 | nagf_wav_2d_init Two-dimensional wavelet filter initialization |
| C09ACF | 24 | nagf_wav_3d_init Three-dimensional wavelet filter initialization |
| C09BAF | 23 | nagf_wav_1d_cont One-dimensional real continuous wavelet transform |
| C09CAF | 22 | nagf_wav_1d_sngl_fwd One-dimensional discrete wavelet transform |
| C09CBF | 22 | nagf_wav_1d_sngl_inv One-dimensional inverse discrete wavelet transform |
| C09CCF | 22 | nagf_wav_1d_multi_fwd One-dimensional multi-level discrete wavelet transform |
| C09CDF | 22 | nagf_wav_1d_multi_inv One-dimensional inverse multi-level discrete wavelet transform |
| C09DAF | 25 | nagf_wav_1d_mxolap_fwd One-dimensional maximal overlap discrete wavelet transform (MODWT) |
| C09DBF | 25 | nagf_wav_1d_mxolap_inv One-dimensional inverse maximal overlap discrete wavelet transform (IMODWT) |
| C09DCF | 25 | nagf_wav_1d_mxolap_multi_fwd One-dimensional multi-level maximal overlap discrete wavelet transform (MODWT) |
| C09DDF | 25 | nagf_wav_1d_mxolap_multi_inv One-dimensional inverse multi-level maximal overlap discrete wavelet transform (IMODWT) |
| C09EAF | 23 | nagf_wav_2d_sngl_fwd Two-dimensional discrete wavelet transform |
| C09EBF | 23 | nagf_wav_2d_sngl_inv Two-dimensional inverse discrete wavelet transform |
| C09ECF | 23 | nagf_wav_2d_multi_fwd Two-dimensional multi-level discrete wavelet transform |
| C09EDF | 23 | nagf_wav_2d_multi_inv Two-dimensional inverse multi-level discrete wavelet transform |
| C09EYF | 25 | nagf_wav_2d_coeff_ext Two-dimensional discrete wavelet transform coefficient extraction |
| C09EZF | 25 | nagf_wav_2d_coeff_ins Two-dimensional discrete wavelet transform coefficient insertion |
| C09FAF | 24 | nagf_wav_3d_sngl_fwd Three-dimensional discrete wavelet transform |
| C09FBF | 24 | nagf_wav_3d_sngl_inv Three-dimensional inverse discrete wavelet transform |
| C09FCF | 24 | nagf_wav_3d_multi_fwd Three-dimensional multi-level discrete wavelet transform |
| C09FDF | 24 | nagf_wav_3d_multi_inv Three-dimensional inverse multi-level discrete wavelet transform |

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| C09FYF | 25 | nag_wav_3d_coeff_ext Three-dimensional discrete wavelet transform coefficient extraction |
| C09FZF | 25 | nag_wav_3d_coeff_ins Three-dimensional discrete wavelet transform coefficient insertion |
