

NAG Library Chapter Contents

C09 – Wavelet Transforms

C09 Chapter Introduction – a description of the Chapter and an overview of the algorithms available

Routine	Mark of	Name	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_mxolap_multi_inv	Three-dimensional inverse multi-level discrete wavelet transform

C09FYF	25	nagf_wav_3d_coeff_ext Three-dimensional discrete wavelet transform coefficient extraction
C09FZF	25	nagf_wav_3d_coeff_ins Three-dimensional discrete wavelet transform coefficient insertion
