

# NAG Library Chapter Contents

## F16 – Further Linear Algebra Support Routines

F16 Chapter Introduction

<b>Routine Name</b>	<b>Mark of Introduction</b>	<b>Purpose</b>
F16DLF	22	nagf_blast_isum Sum elements of integer vector
F16DNF	22	nagf_blast_imax_val Maximum value and location, integer vector
F16DPF	22	nagf_blast_imin_val Minimum value and location, integer vector
F16DQF	22	nagf_blast_iamax_val Maximum absolute value and location, integer vector
F16DRF	22	nagf_blast_iamin_val Minimum absolute value and location, integer vector
F16ECF	24	BLAS_DAXPBY nagf_blast_daxpby Real scaled vector accumulation
F16EHF	22	BLAS_DWXPBY nagf_blast_dwaxpby Real scaled vector accumulation preserving input
F16ELF	22	BLAS_DSUM nagf_blast_dsum Sum elements of real vector
F16GCF	24	BLAS_ZAXPBY nagf_blast_zaxpby Complex scaled vector accumulation
F16GHF	22	BLAS_ZWXPBY nagf_blast_zwaxpby Complex scaled vector accumulation preserving input
F16GLF	22	BLAS_ZSUM nagf_blast_zsum Sum elements of complex vector
F16JNF	22	BLAS_DMAX_VAL nagf_blast_dmax_val Maximum value and location, real vector
F16JPF	22	BLAS_DMIN_VAL nagf_blast_dmin_val Minimum value and location, real vector
F16JQF	22	BLAS_DAMAX_VAL nagf_blast_damax_val Maximum absolute value and location, real vector

F16JRF	22	BLAS_DAMIN_VAL nagf_blast_damin_val Minimum absolute value and location, real vector
F16JSF	22	BLAS_ZAMAX_VAL nagf_blast_zamax_val Maximum absolute value and location, complex vector
F16JTF	22	BLAS_ZAMIN_VAL nagf_blast_zamin_val Minimum absolute value and location, complex vector
F16RBF	23	nagf_blast_dgb_norm 1-norm, $\infty$ -norm, Frobenius norm, largest absolute element, real band matrix
F16UBF	23	nagf_blast_zgb_norm 1-norm, $\infty$ -norm, Frobenius norm, largest absolute element, complex band matrix