

## NAG Library Chapter Contents

### H – Operations Research

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

<b>Routine Name</b>	<b>Mark of Introduction</b>	<b>Purpose</b>
H02BBF	14	nagf_mip_ilp_dense Integer LP problem (dense)
H02BFF	16	nagf_mip_ilp_mpsx Interpret MPSX data file defining IP or LP problem, optimize and print solution
H02BUF	16	nagf_mip_ilp_mpsx_convert Convert MPSX data file defining IP or LP problem to format required by H02BBF or E04MFF/E04MFA
H02BVF	16	nagf_mip_ilp_print Print IP or LP solutions with user-specified names for rows and columns
H02BZF	15	nagf_mip_ilp_info Integer programming solution, supplies further information on solution obtained by H02BBF
H02CBF	19	nagf_mip_iqp_dense Integer QP problem (dense)
H02CCF	19	nagf_mip_iqp_dense_optfile Read optional parameter values for H02CBF from external file
H02CDF	19	nagf_mip_iqp_dense_optstr Supply optional parameter values to H02CBF
H02CEF	19	nagf_mip_iqp_sparse Integer LP or QP problem (sparse), using E04NKF/E04NKA
H02CFF	19	nagf_mip_iqp_sparse_optfile Read optional parameter values for H02CEF from external file
H02CGF	19	nagf_mip_iqp_sparse_optstr Supply optional parameter values to H02CEF
H02DAF	25	nagf_mip_sqp Mixed integer nonlinear programming
H02ZKF	25	nagf_mip_optset Option setting routine for H02DAF
H02ZLF	25	nagf_mip_optget Option getting routine for H02DAF
H03ABF	4	nagf_mip_transportation Transportation problem, modified ‘stepping stone’ method
H03ADF	18	nagf_mip_shortestpath Shortest path problem, Dijkstra's algorithm
H03BBF	25	nagf_mip_tsp_simann Travelling Salesman Problem, simulated annealing
H05AAF	24	nagf_best_subset_given_size_revcomm Best $n$ subsets of size $p$ (reverse communication)
H05ABF	24	nagf_best_subset_given_size Best $n$ subsets of size $p$ (direct communication)

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