NAG Library Chapter Introduction

x04 – Input/Output Utilities

Contents

1   Scope of the Chapter

This chapter contains file opening and closing functions and matrix printing utility functions.

2   Background to the Problems

Functions are provided to allow formatted output of

(a) general matrices stored in a two-dimensional array (real and complex data types);

(b) triangular matrices stored in a packed one-dimensional array (real and complex data types);

(c) band matrices stored in a packed two-dimensional array (real and complex data types).

Functions in (b) and (c) allow printing of matrices stored in formats used in particular by Chapters f06 and f07 of the Library.

By appropriate choice of arguments you can specify titles, labels, maximum output record length, and the format of individual matrix elements. All output is directed to a specified file, or to `stdout`.

Functions for reading, writing or appending to files are required for functions with option setting facilities in the library.

3   Functionality Index

4   Auxiliary Functions Associated with Library Function Arguments

None.

5   Functions Withdrawn or Scheduled for Withdrawal

The following lists all those functions that have been withdrawn since Mark 23 of the Library or are scheduled for withdrawal at one of the next two marks.

Withdrawn Function	Mark of Withdrawal	Replacement Function(s)
nag_example_file_io (x04aec)	25	No replacement required.