

## E04DKF – NAG Fortran Library Routine Document

**Note.** Before using this routine, please read the Users' Note for your implementation to check the interpretation of bold italicised terms and other implementation-dependent details.

### 1 Purpose

To supply individual optional parameters to E04DGF.

### 2 Specification

```
SUBROUTINE E04DKF (STRING)
  CHARACTER*(*)    STRING
```

### 3 Description

E04DKF may be used to supply values for optional parameters to E04DGF. It is only necessary to call E04DKF for those parameters whose values are to be different from their default values. One call to E04DKF sets one parameter value.

Each optional parameter is defined by a single character string of up to 72 characters, consisting of one or more items. The items associated with a given option must be separated by spaces, or equal signs [=]. Alphabetic characters may be upper or lower case. The string

```
Print Level = 1
```

is an example of a string used to set an optional parameter. For each option the string contains one or more of the following items:

- (a) A mandatory keyword.
- (b) A phrase that qualifies the keyword.
- (c) A number that specifies an INTEGER or *real* value. Such numbers may be up to 16 contiguous characters in Fortran 77's I, F, E or D formats, terminated by a space if this is not the last item on the line.

Blank strings and comments are ignored. A comment begins with an asterisk (\*) and all subsequent characters in the string are regarded as part of the comment.

Normally, each user-specified option is printed as it is defined, on the current advisory message unit (see X04ABF), but this printing may be suppressed using the keyword **nolist**. Thus the statement

```
CALL E04DKF ('Nolist')
```

suppresses printing of this and subsequent options. Printing will automatically be turned on again after a call to E04DGF, and may be turned on again at any time by the user, by using the keyword **list**.

Optional parameter settings are preserved following a call to E04DGF, and so the keyword **defaults** is provided to allow the user to reset all the optional parameters to their default values by the statement,

```
CALL E04DKF ('Defaults')
```

prior to a subsequent call to E04DGF.

A complete list of optional parameters, their abbreviations, synonyms and default values is given in Section 11 of the document for E04DGF.

### 4 References

None.

## 5 Parameters

- 1: STRING — CHARACTER\*(\*) *Input*  
*On entry:* a single valid option string (as described in Section 3 above and in Section 11 of the document for E04DGF).

## 6 Error Indicators and Warnings

If the parameter STRING is not recognized as a valid option string, then a warning message is output on the current advisory message unit (see X04ABF).

## 7 Accuracy

Not applicable.

## 8 Further Comments

E04DJF may also be used to supply optional parameters to E04DGF.

## 9 Example

See the example for E04DJF.

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