NAG Library Routine Document

X04BAF

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

X04BAF writes a single formatted record to an external file.

2   Specification

```
SUBROUTINE X04BAF (NOUT, REC)
INTEGER      NOUT
CHARACTER(*) REC
```

3   Description

X04BAF is used by NAG Library routines to write formatted records to an external file. All formatted output to an external file from NAG Library routines is performed by calls to X04BAF.

4   References

None.

5   Parameters

1:    NOUT – INTEGER   *Input*

On entry: the Fortran unit number which identifies the file to be written to. If NOUT < 0 (not a valid Fortran unit number), then no output occurs. Within the NAG Library NOUT is always determined by a call to X04AAF or X04ABF.

2:    REC – CHARACTER(*)   *Input*

On entry: a character-string. This is written to the external file as a single record. Trailing blanks are not output, except that if REC is entirely blank, a single blank character is output. If the record is printed, the first character is treated as a carriage-control character.

6   Error Indicators and Warnings

None.

7   Accuracy

Not applicable.

8   Parallelism and Performance

Not applicable.

9   Further Comments

None.

10   Example

This example program simply illustrates how a formatted record is output from the NAG Library, by first writing it to the character-string REC, used as an internal file, and then passing the character-string to X04BAF.

10.1   Program Text

```
    Program x04bafe

!     X04BAF Example Program Text

!     Mark 25 Release. NAG Copyright 2014.

!     .. Use Statements ..
    Use nag_library, Only: x04baf
!     .. Implicit None Statement ..
    Implicit None
!     .. Parameters ..
    Integer, Parameter               :: nout = 6
!     .. Local Scalars ..
    Character (40)                   :: rec
!     .. Executable Statements ..
    Write (nout,*) 'X04BAF Example Program Results'

    Write (nout,*)
    Write (rec,99999) 'This record was output by X04BAF'
    Flush (nout)

    Call x04baf(nout,rec)

99999 Format (1X,A)
    End Program x04bafe
```

10.2   Program Data

None.

10.3   Program Results

```
 X04BAF Example Program Results

 This record was output by X04BAF
```