NAG Fortran Library Routine Document

A00ACF

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

A00ACF provides a convenient means of checking the availability of a valid licence key on licence-managed implementations before starting computations that will use NAG library routines. In particular, the use of this function is highly recommended in programs that call NAG library routines within multithreaded sections (e.g., OpenMP parallel regions). The function need only be called once, before the start of the first multithreaded section.

2 Specification

```
LOGICAL FUNCTION A00ACF ()
```

3 Description

A00ACF returns the logical value .TRUE. if a valid licence is found. If no valid licence is available, the underlying licence-management mechanism may stop the program, hence A00ACF will not return. Otherwise .FALSE. will be returned.

On non licence-managed implementations, .TRUE. is always returned.

4 References

None.

5 Parameters

None.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

The example program prints an appropriate message depending upon the value returned by A00ACF.

9.1 Program Text

Note: the listing of the example program presented below uses ***bold italicised*** terms to denote precision-dependent details. Please read the Users' Note for your implementation to check the interpretation of these terms. As explained in the Essential Introduction to this manual, the results produced may not be identical for all implementations.

```
*     A00ACF Example Program Text
*     Mark 21.  NAG Copyright 2004.
*     .. Parameters ..
      INTEGER          NOUT
      PARAMETER        (NOUT=6)
*     .. Local Scalars ..
      LOGICAL          LMOK
*     .. External Functions ..
      LOGICAL          A00ACF
      EXTERNAL         A00ACF
*     .. Executable Statements ..
      WRITE (NOUT,*) 'A00ACF Example Program Results'
      WRITE (NOUT,*)
      LMOK = A00ACF()
      IF (LMOK) THEN
         WRITE (NOUT,*) 'A valid licence key is available'
      ELSE
         WRITE (NOUT,*) 'No valid licence key was found'
      ENDIF
      STOP
*
      END
```

9.2 Program Data

None.

9.3 Program Results

```
 A00ACF Example Program Results

 A valid licence key is available
```