

NAG Toolbox for MATLAB

x04bb

1 Purpose

x04bb reads a single formatted record from an external file.

2 Syntax

```
[recin, ifail] = x04bb(nin, reclen)
```

3 Description

x04bb is used by NAG Fortran Library functions to read formatted records from an external file. All formatted input from an external file by NAG Fortran Library functions is performed by calls to x04bb.

4 References

None.

5 Parameters

5.1 Compulsory Input Parameters

1: **nin** – int32 scalar

The Fortran unit number which identifies the file to be read from. If **nin** < 0 (not a valid Fortran unit number), then no input occurs.

2: **reclen** – int32 scalar

The maximum length of the record in characters.

5.2 Optional Input Parameters

None.

5.3 Input Parameters Omitted from the MATLAB Interface

None.

5.4 Output Parameters

1: **recin** – string

The first LEN(**recin**) characters of the record read from unit **nin**, padded with trailing blanks if the record was shorter than LEN(**recin**).

2: **ifail** – int32 scalar

0 unless the function detects an error (see Section 6).

6 Error Indicators and Warnings

Errors or warnings detected by the function:

ifail = 1

An end-of-file was detected by the READ statement.

System-dependent errors may also occur if the unit specified by **nin** is not connected to an external file, or if a read error occurs.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

```
iounit = int32(4);  
reclin = int32(40);  
file = 'foo.data';  
mode = int32(0);  
[ifail] = x04ac(iounit, file, mode);  
[recin, ifail] = x04bb(iounit, reclin);  
[ifail] = x04ad(iounit)
```

```
ifail =  
      0
```