

## NAG Toolbox

### nag\_machine\_decimal\_digits (x02be)

#### 1 Purpose

nag\_machine\_decimal\_digits (x02be) returns the maximum number of decimal digits which can be accurately represented over the whole range of floating-point numbers.

#### 2 Syntax

```
[result] = nag_machine_decimal_digits
```

```
[result] = x02be
```

#### 3 Description

None.

#### 4 References

None.

#### 5 Parameters

##### 5.1 Compulsory Input Parameters

None.

##### 5.2 Optional Input Parameters

None.

##### 5.3 Output Parameters

1: **result**

The result of the function.

#### 6 Error Indicators and Warnings

None.

#### 7 Accuracy

None.

#### 8 Further Comments

None.

#### 9 Example

See Section 10 in nag\_machine\_precision (x02aj).

## 9.1 Program Text

```
function x02be_example
fprintf('x02be example results\n\n');
fprintf('precision in decimal digits = %20d\n', ...
        x02be);
```

## 9.2 Program Results

```
x02be example results
precision in decimal digits =                15
```

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