

## NAG Toolbox

### **nag\_time\_date\_array (x05aa)**

## 1 Purpose

`nag_time_date_array (x05aa)` returns the current date and time.

## 2 Syntax

```
[itime] = nag_time_date_array
[itime] = x05aa
```

## 3 Description

`nag_time_date_array (x05aa)` returns the current date and time as a set of seven integers.

## 4 References

None.

## 5 Parameters

### 5.1 Compulsory Input Parameters

None.

### 5.2 Optional Input Parameters

None.

### 5.3 Output Parameters

1: **itime(7)** – INTEGER array

The current date and time, as follows:

**itime(1)**

Contains the current year.

**itime(2)**

Contains the current month, in the range 1–12.

**itime(3)**

Contains the current day, in the range 1–31.

**itime(4)**

Contains the current hour, in the range 0–23.

**itime(5)**

Contains the current minute, in the range 0–59.

**itime(6)**

Contains the current second, in the range 0–59.

**itime(7)**

Contains the current millisecond, in the range 0–999.

## 6 Error Indicators and Warnings

None.

## 7 Accuracy

The accuracy of this function depends on the accuracy of the host machine. In particular, on some machines it may not be possible to return a value for the current millisecond. In this case, the value returned will be zero.

## 8 Further Comments

None.

## 9 Example

This example prints out the vector **itime** after a call to nag\_time\_date\_array (x05aa).

### 9.1 Program Text

```
function x05aa_example

fprintf('x05aa example results\n\n');
t_units = {'Year';
           'Month';
           'Day';
           'Hour';
           'Minute';
           'Second';
           'Millisecond'};

[itime] = x05aa;

for i = 1:7
    fprintf('%s : %4d\n', t_units{i}, itime(i));
end
```

### 9.2 Program Results

x05aa example results

```
Year : 2014
Month : 11
Day : 5
Hour : 11
Minute : 34
Second : 12
Millisecond : 745
```

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