

## NAG Fortran Library Chapter Introduction

### X05 – Date and Time Utilities

#### Contents

<b>1</b>	<b>Scope of the Chapter</b> .....	2
<b>2</b>	<b>Background to the Problems</b> .....	2
2.1	Real Time .....	2
2.2	Processor Time .....	2
<b>3</b>	<b>Recommendations on Choice and Use of Available Routines</b> .....	2
<b>4</b>	<b>Routines Withdrawn or Scheduled for Withdrawal</b> .....	2

## 1 Scope of the Chapter

This chapter provides routines to obtain the current real time, and the amount of processor time used.

## 2 Background to the Problems

### 2.1 Real Time

Routines are provided to obtain the current time in two different formats, and to compare two such times.

### 2.2 Processor Time

A routine is provided to return the current amount of processor time used. This allows the timing of a particular routine or section of code.

## 3 Recommendations on Choice and Use of Available Routines

**Note:** refer to the Users' Note for your implementation to check that a routine is available.

X05AAF returns the current date/time in integer format.

X05ABF converts from integer to character string date/time.

X05ACF compares two date/time character strings.

X05BAF returns the amount of processor time used.

## 4 Routines Withdrawn or Scheduled for Withdrawal

None.

---