

# NAG Library Function Document

## nag\_complex\_i\_power (a02ddc)

### 1 Purpose

nag\_complex\_i\_power (a02ddc) returns a complex number raised to integer power.

### 2 Specification

```
#include <nag.h>
#include <naga02.h>
```

```
Complex nag_complex_i_power (Complex z, Integer i)
```

### 3 Description

None.

### 4 References

None.

### 5 Arguments

- |    |  |              |
|----|--|--------------|
| 1: | <b>z</b> – Complex                       | <i>Input</i> |
|    | <i>On entry:</i> a valid complex number. |              |
| 2: | <b>i</b> – Integer                       | <i>Input</i> |
|    | <i>On entry:</i> an integer.             |              |

### 6 Error Indicators and Warnings

None.

### 7 Accuracy

Not applicable.

### 8 Parallelism and Performance

nag\_complex\_i\_power (a02ddc) is not threaded in any implementation.

### 9 Further Comments

None.

### 10 Example

See Section 10 in nag\_complex (a02bac).

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