

# NAG Library Function Document

## nag\_complex\_r\_power (a02dec)

### 1 Purpose

nag\_complex\_r\_power (a02dec) returns a complex number raised to real power.

### 2 Specification

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

```
Complex nag_complex_r_power (Complex z, double x)
```

### 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>x</b> – double                        | <i>Input</i> |
|    | <i>On entry:</i> a real number.          |              |

### 6 Error Indicators and Warnings

None.

### 7 Accuracy

Not applicable.

### 8 Parallelism and Performance

nag\_complex\_r\_power (a02dec) is not threaded in any implementation.

### 9 Further Comments

None.

### 10 Example

See Section 10 in nag\_complex (a02bac).

---