

Package ‘pow.int’

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Title Binary Exponentiation

Depends R (>= 3.0.0)

Description Fast exponentiation when the exponent is an integer.

License GPL (>= 3)

NeedsCompilation yes

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pow.int	<i>Binary Exponentiation</i>
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Description

Fast exponentiation when the exponent is an integer.

Usage

```
pow.int(x, n)  
x %^^ n
```

Arguments

x a numeric vector giving the base.
n an integer vector giving the exponent.

Value

A numeric vector.

Note

This function is just a wrapper around `R_pow_di` in the `Rmath` library.

Author(s)

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Examples

```
3 %^^% 12L

# Basic tests
x <- runif(10)
n <- as.integer(runif(length(x), 0, 100))
stopifnot(all.equal(pow.int(x, n), x ^ n))
stopifnot(all.equal(pow.int(x[1], n), x[1] ^ n))
stopifnot(all.equal(pow.int(x, n[1]), x ^ n[1]))
stopifnot(all.equal(pow.int(x[1:2], n), x[1:2] ^ n))
stopifnot(all.equal(pow.int(x, n[1:2]), x ^ n[1:2]))
```

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`pow.int, 1`

`pow.int, 1`