

Package: pow.int (via r-universe)

August 28, 2024

Version 1.3
Date 2022-08-31
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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Date/Publication 2022-08-31 18:50:02 UTC
Repository <https://jondebove.r-universe.dev>
RemoteUrl <https://github.com/cran/pow.int>
RemoteRef HEAD
RemoteSha 139d988b6bbaab308d4b4245760d774fd3e9b0f8

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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`