API Collection

Fractional part extraction

Truncate the elements of a vector to a fraction.

Topics

Single-Vector Fractional Part Extraction

The functions in this group remove the whole-number part of each element in a vector, leaving the fractional part in the output vector.

`static func trunc<U>(U) -> [Double]`

Returns a double-precision array containing each element in the supplied vector truncated to a fraction.

`static func trunc<U>(U) -> [Float]`

Returns a single-precision array containing each element in the supplied vector truncated to a fraction.

`static func trunc<U, V>(U, result: inout V)`

Calculates each element in the supplied double-precision vector truncated to a fraction.

`static func trunc<U, V>(U, result: inout V)`

Calculates each element in the supplied single-precision vector truncated to a fraction.

`vDSP_vfrac`

Truncates the elements of a single-precision vector to fractions.

`vDSP_vfracD`

Truncates the elements of a double-precision vector to fractions.

See Also

Single-vector arithmetic functions

- Absolute and negation functions

  Compute the absolute or negated value of each element in a vector.

- Integration functions

  Compute the running sum, Simpson, or trapezoidal integration of a vector.

- Clipping, limit, and threshold operations

  Apply clipping, limit, or threshold rules to the elements in a vector.

- Normalization functions

  Compute the mean and standard deviation of a vector and calculate new elements to have a zero mean and a unit standard deviation.

- Phase computation functions

  Calculate the element-wise phase values, in radians, of a complex vector.

- Complex conjugation functions

  Calculate the complex conjugate of the elements in a vector.

- Vector squaring functions

  Compute the square, signed square, or squared magnitude of the elements in a vector.

- Zero crossing search

  Count and find the zero crossings in a vector.