API Collection

Phase computation functions

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

Topics

Single-Vector Phase Computation

The functions in this group compute the phase values of each element in a complex vector.

`static func phase<V>(DSPSplitComplex, result: inout V)`

Calculates the single-precision element-wise phase values, in radians, of the supplied complex vector.

`static func phase<V>(DSPDoubleSplitComplex, result: inout V)`

Calculates the double-precision element-wise phase values, in radians, of the supplied complex vector.

`vDSP_zvphas`

Calculates the single-precision element-wise phase values, in radians, of the supplied complex vector using the specified stride.

`vDSP_zvphasD`

Calculates the double-precision element-wise phase values, in radians, of the supplied complex vector using the specified stride.

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.

- 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.

- Fractional part extraction

  Truncate the elements of a vector to a fraction.

- Zero crossing search

  Count and find the zero crossings in a vector.