Structure

DSPDoubleSplitComplex

A structure that represents a double-precision complex vector with the real and imaginary parts stored in separate arrays.

iOS | iPadOS | Mac Catalyst | macOS | tvOS | visionOS | watchOS

```
struct DSPDoubleSplitComplex
```

Topics

Creating a Split Complex Structure

`init(realp: UnsafeMutablePointer<Double>, imagp: UnsafeMutablePointer<Double>)`

Creates a new split complex structure.

Inspecting a Split Complex Structure's Data

`var imagp: UnsafeMutablePointer<Double>`

An array of imaginary parts of the complex numbers.

`var realp: UnsafeMutablePointer<Double>`

An array of real parts of the complex numbers.

Initializers

~~`init(fromInputArray: [Double], realParts: inout [Double], imaginaryParts: inout [Double])`~~

Deprecated

Relationships

Conforms To

`BitwiseCopyable`, `Copyable`, `vDSP_FourierTransformable`

See Also

Data types

`typealias` `vDSP_Length`

An unsigned-integer value that represents the size of vectors and the indices of elements in vectors.

`typealias` `vDSP_Stride`

An integer value that represents the differences between indices of elements, including the lengths of strides.

`struct` `DSPComplex`

A structure that represents a single-precision complex value.

`typealias` `COMPLEX_SPLIT`

`struct` `DSPDoubleComplex`

A structure that represents a double-precision complex value.

`typealias` `DOUBLE_COMPLEX_SPLIT`

`struct` `DSPSplitComplex`

A structure that represents a single-precision complex vector with the real and imaginary parts stored in separate arrays.

`struct` `VectorizableDouble`

A structure that represents a double-precision real value for biquadratic filtering and discrete Fourier transforms.

```
struct VectorizableFloat
```

A structure that represents a single-precision real value for biquadratic filtering and discrete Fourier transforms.