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API Collection

Complex vector conversion

Perform element-wise split-complex to interleaved and interleaved to split-complex conversion.

Topics

Converting interleaved-complex vectors to split-complex vectors

```
static func convert(interleavedComplexVector: [DSPComplex], toSplitComplexVector: inout DSPSplitComplex)
```

Converts the contents of an interleaved single-precision complex vector to a split complex vector.

```
static func convert(interleavedComplexVector: [DSPDoubleComplex], toSplitComplexVector: inout DSPDoubleSplitComplex)
```

Converts the contents of an interleaved double-precision complex vector to a split complex vector.

vDSP_ctoz

Copies the contents of an interleaved single-precision complex vector to a split complex vector.

vDSP_ctozD

Copies the contents of an interleaved double-precision complex vector to a split complex vector.

Converting split-complex vectors to interleaved-complex vectors

```
static func convert(splitComplexVector: DSPSplitComplex, toInterleavedComplexVector: inout [DSPComplex])
```

Converts the contents of a split single-precision complex vector to an interleaved vector.

```
static func convert(splitComplexVector: DSPDoubleSplitComplex, toInterleavedComplexVector: inout [DSPDoubleComplex])
```

Converts the contents of a split double-precision complex vector to an interleaved vector.

```
vDSP_ztoc
```

Copies the contents of a split single-precision complex vector to an interleaved vector.

```
vDSP_ztocD
```

Copies the contents of a split double-precision complex vector to an interleaved vector.

See Also

Vector conversion functions

☰ Conversion to decibel equivalents

Convert vectors that contain power or amplitude data to decibels.

☰ Type conversion

Perform element-wise floating-point to integer and integer to floating-point conversion.

☰ Polar-rectangular conversion

Convert each element of a vector between radius-angle and Cartesian pairs.