API Collection

Recursive filters

Perform two-pole two-zero recursive filtering on a vector.

Topics

Vector-to-Vector Recursive Filtering on Real Vectors

```
static func twoPoleTwoZeroFilter<U>(U, coefficients: (Double, Double, Double, Double, Double)) -> [Double]
```

Returns the result of double-precision, two-pole, two-zero recursive filtering.

```
static func twoPoleTwoZeroFilter<U>(U, coefficients: (Float, Float, Float, Float, Float)) -> [Float]
```

Returns the result of single-precision, two-pole, two-zero recursive filtering.

```
static func twoPoleTwoZeroFilter<U, V>(U, coefficients: (Double, Double, Double, Double, Double), result: inout V)
```

Performs double-precision, two-pole, two-zero recursive filtering.

```
static func twoPoleTwoZeroFilter<U, V>(U, coefficients: (Float, Float, Float, Float, Float), result: inout V)
```

Performs single-precision, two-pole, two-zero recursive filtering.

`vDSP_deq22`

Performs two-pole two-zero recursive filtering on a single-precision vector.

`vDSP_deq22D`

Performs two-pole two-zero recursive filtering on a double-precision vector.

See Also

Vector filtering

- Biquadratic IIR filters

  Apply biquadratic filters to single-channel and multichannel data.

- Single-channel biquadratic filters

  Filter a single-channel signal with a cascade of biquadratic sections.

- Multichannel biquadratic filters

  Filter a multichannel signal with a cascade of biquadratic sections.

- Finite impulse response filters

  Perform finite impulse response filtering with decimation and antialiasing on vectors of real or complex values.