#### **Signal Processing Toolbox**

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# dfilt.df2t

Construct a discrete-time, direct form II transposed filter object

### **Syntax**

Hd = dfilt.df2t(b,a)
Hd = dfilt.df2t

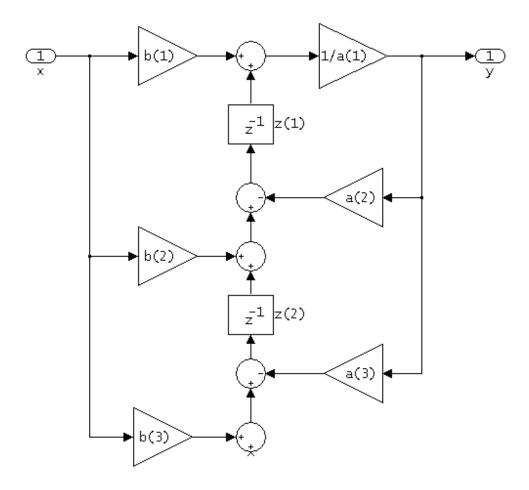
### **Description**

Hd = dfilt.df2t(b,a) returns a discrete-time, direct form II transposed filter object, Hd, with numerator coefficients b and denominator coefficients a.

Hd = dfilt.df2t returns a default, discrete-time, direct form II transposed filter object, Hd, with b=1 and a=1. This filter passes the input through to the output unchanged.

**Note** If a(1) is not equal to 1, the 1/a(1) block is included as shown below. If a(1) is equal to 1, the 1/a(1) block is replaced by a direct connection.

# df2t (Transposed Direct Form II)



## **Examples**

Specify a second-order direct form II transposed filter structure for a dfilt object, Hd, with the following code:

#### See Also

dfilt, dfilt.df1, dfilt.df1t, dfilt.df2



dfilt.df2tsos