

DISFACTORS

Updated: 24 May 2016

Use **DISFACTORS** to return the components used in the calculation of price, discount rate, and yield for a discount security.

Syntax

```
Public Shared Function DISFACTORS(  
    ByVal Settlement As Date,  
    ByVal Maturity As Date,  
    ByVal Redemption As Double,  
    ByVal DRate As Double,  
    ByVal Price As Double,  
    ByVal Yield As Double,  
    ByVal Basis As String,)
```

Arguments

Settlement

the settlement date of the security. *Settlement* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Maturity

the maturity date of the security. *Maturity* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Redemption

the security's redemption value per 100 face value. *Redemption* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

DRate

the discount rate. *DRate* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Price

the security's price per 100 face value. *Price* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Yield

the security's annual yield. *Yield* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Basis

the daycount convention.

Basis	Day count basis
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0, "BOND"	US (NASD) 30/360
1, "ACTUAL"	Actual/Actual
2, "A360"	Actual/360
3, "A365"	Actual/365
4, "30E/360 (ISDA)", "30E/360", "ISDA", "30E/360 ISDA", "EBOND"	European 30/360
5, "30/360", "30/360 ISDA", "GERMAN"	30/360 ISDA
7, "NL/365"	No Leap Year /365
8, "NL/360"	No Leap Year /360
9, "A/364"	Actual/364
21, "Actual/ISDA"	Actual/ISDA

Basis is an expression that returns a **String**, or of a type that can be implicitly converted to **String**.

Return Type

`FinancialTypes.DISFACTORS_table`

Class `DISFACTORS_table`

Inherits `Data.DataTable`

Property `Item(RowIndex As Integer) As FinancialTypes.OutputRow_DISFACTORS`

Class `OutputRow_DISFACTORS`

Public `DSM As Double`

Public `B As Double`

Public `P As Double`

Public `D As Double`

Public `Y As Double`

Public `T As Double`

End Class

Column	Description
DSM	Number of days from settlement to maturity
B	Number of days from in a year.
P	Price
D	Discount Rate
Y	Yield
T	Time, in years, from <i>Settlement</i> to <i>Maturity</i> ; DSM/B

Remarks

- If *Settlement* is NULL then *Settlement* equals the current system data
- If *Basis* is NULL then *Basis* = 2.

- If *Redemption* is NULL then *Redemption* = 100.
- If *Basis* invalid then an error is returned.
- If *Maturity* is NULL then an error is returned.
- If *DRate* is NULL and *Price* is NULL and *Yield* is NULL nothing is returned.
- If *DRate* is NOT NULL then **D** = *DRate* and **P** and **Y** are calculated using *DRate* else if *Price* is NOT NULL then **P** = *Price* and **D** and **Y** are calculated from *Price* else if *Yield* is NOT NULL then **Y** = *Yield* and **P** and **D** are calculated from *Yield*.

See Also

- BONDCF - Cash flows for a bond paying regular periodic interest
- DIRTYPRICE - Dirty price of a bond
- DIRTYYIELD - Yield of a bond from the dirty price
- DIS - Price, discount rate, and/or yield of a discount security
- DISC - Discount rate
- IAM - Price and/or yield of a security paying interest at maturity
- IAMFACTORS - Factors for the price calculation of a security paying interest at maturity
- ODDFPRICE - Price of a bond with an odd first coupon
- ODDFYIELD - Yield of a bond with an odd first coupon
- ODDLPRICE - Price of a bond with an odd last coupon
- ODDLYIELD - Yield of a bond with an odd last coupon
- OFC - Calculate the price and/or yield of a bond with an odd first coupon using the ODDFPRICE equation
- OFCFACTORS - Returns the components of the ODDFPRICE equation
- OFL - Calculate the price and/or yield of a bond with an odd first and an odd last coupon using the OFLPRICE equation
- OFLFACTORS - Returns the components of the OFLPRICE equation
- OFLPRICE - Calculate the price of a security with an odd first and odd last period
- OFLYIELD - Calculate the yield of a security with an odd first and odd last period
- OLC - Calculate the price and/or yield of a bond with an odd last coupon using the ODDLPRICE equation
- OLCFACTORS - Returns the components of the ODDLPRICE equation
- PRICE - Price of a security paying regular periodic interest
- PRICEACT - Price of a bond where coupon amounts are based on number of days in the coupon period
- PRICEACTV - Cash flows and discount factors for a bond where coupon amounts are based on number of days in the coupon period
- PRICEDISC - Price of a discounted security
- PRICEFR - Price of a bond with forced redemptions
- PRICEMAT - Price of an interest-at-maturity security
- PRICESTEP - Price of a security with step-up rates
- RPI - Calculate the price and/or yield of a bond with regular periodic coupons

- RPIFACTORS - Factors for the calculation of the price of a bond that pays regular periodic interest
- TBILLEQ - Bond equivalent yield of a Treasury Bill
- TBILLPRICE - Price of a Treasury Bill
- TBILLYIELD - Yield of a Treasury Bill
- YIELD - Yield of a bond paying regular periodic interest
- YIELDACT - Yield of a bond where coupon amounts are based on number of days in the coupon period
- YELDDISC - Yield on a discount security
- YELDFR - Yield of a bond with forced redemptions
- YELDMAT - Yield on an interest-at-maturity security
- YIELDSTEP - Yield of a security with step-up rates