

NFV

Updated: 31 Mar 2016

Use **NFV** to calculate the net future value of an investment based on a series of periodic cash flows and a rate.

Syntax

```
Public Shared Function NFV(  
    ByVal Rate As Double,  
    ByVal CF_Amt As Double,  
    ByVal Per As Integer,)
```

Arguments

Rate

the rate to be used for compounding the cash flows in calculating the net future value. *Rate* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

CF_Amt

the cash flow amounts. *CF_Amt* is an expression that returns an Array of **Double**, or of a type that can be implicitly converted to an Array of **Double**.

Per

the period in which the cash flow occurred. *Per* is an expression that returns an Array of **Integer**, or of a type that can be implicitly converted to an Array of **Integer**.

Return Type

Double

Remarks

- The **NFV** function requires pairing the cash flows (*CF_Amt*) and the periods in which those cash flows occurred (*Per*) as input. However, the order is not important.
- Periods in which the cash flow is zero, or in which there is no cash flow, do not have to be included.
- The periods can start and end with any integer value, including negative numbers.
- There can be multiple cash flows with the same period number.
- If the rate (*Rate*) is equal to -1, the result will be the sum of the cash flows in the final period.
- It is important to be consistent with the units for *Rate* and *Per*. For example if payments are to be paid monthly, then *Rate* should be the monthly rate, which can be specified as the annual rate divided by 12. If payments are made quarterly, divide the annual rate by 4. If payments are made semi-annually, divide the annual rate by 2.

- Funds that are paid should be represented with negative numbers. Funds that are received should be represented as positive numbers.
- For calculations involving dates, consider using the [XNFV](#) aggregate function.

See Also

- EFV - Enhanced future value
- ENPV - Enhanced net present value
- EPV - Enhanced present value
- NPV - Net present value
- XDCF - Discounted cash flows value of a series of irregular cash flows
- XFV - Future value of a cash flow between two dates
- XNFV - Net future value for non-periodic cash flows
- XNPV - Net present value for non-periodic cash flows
- XNPV30360 - Net present value for irregular cash flows using a 30/360 day-count convention
- XNPVT - Net present value for cash flows with irregular time periods
- XPV - Discounted value of a cash flow between two dates