

DEPAMT

Description: This macro calculates the amount depreciated within a given year for a depreciating investment. You must provide the original price of the investment, its depreciation rate, and the year of the depreciation.

Syntax

```
%macro DepAmt(OrigAmt, DepRate, YrsOut, DepValue);
```

Where: **OrigAmt** = Original price.

DepRate = The depreciation rate.

YrsOut = Year of depreciation.

DepValue = The calculated depreciation amount.

Notes

All the values must be positive and non-missing. If any of the inputted values are missing, then the calculated depreciation value will be returned with a missing value.

The parameter for year can be expressed with a decimal value to indicate partial years. For example, 42 months can be represented as 3.5 years.

Example

Joan bought her car for 29,333.76. Her model car depreciates at an average annual rate of 21%. What amount has the car depreciated in each of the first three years she has owned it?

```
data a;
  %depamt (29333.76, 21, 1, MyDepValue);
  output;
  %depamt (29333.76, 21, 2, MyDepValue);
  output;
  %depamt (29333.76, 21, 3, MyDepValue);
  output;
run;

Proc Print data=a;
run;
```

WPS Listing

```
          The WPS System

Obs      My Dep Value

1         6160.0896
2         4866.470784
3         3844.5119194
```