

# ARCTAN2

Calculates the two-argument arc tangent of two values.

## Syntax

```
Result = SRP_Math("ARCTAN2", Value1, Value2, DecimalPlaces, ScientificNotation)
```

## Returns

The two-argument arc tangent of *Value1* and *Value2*.

## Remarks

The ARCTAN2 operation computes the two-argument arc tangent of *Value1* and *Value2*. *Value1* and *Value2* can be any number so long as they aren't **both** zero, else the following error is returned:

```
"ERROR: Value1 and Value2 cannot both be zero."
```

The angle returned is in the range  $< result$

## Example

```
// Calculate the two-argument arc tangent of Log2 and PI
Val1 = "0.227064512498507649434129923403947"
Val2 = "3.1415926535897932384626433832795"
Result = SRP_Math("ARCTAN2", Val1, Val2)
!! Result = 0.0721514152774001451411908714883551 !!
```

```
// Attempting to calculate the two-argument arc tangent of
// 0 and 0 results in an error
Result = SRP_Math("ARCTAN2", 0, 0)
!! Result = "ERROR: Value1 and Value2 cannot both be zero." !!
```