

ARCTANH

Calculates the hyperbolic arc tangent of a value.

Syntax

```
Result = SRP_Math("ARCTANH", Value, "", DecimalPlaces, ScientificNotation)
```

Returns

The hyperbolic arc tangent of *Value*.

Remarks

The ARCTANH operation computes the hyperbolic arc tangent of *Value*. *Value* must be in the range $-1 < value < 1$, else the following error is returned:

```
"ERROR: Value must be in range: 1 < Value < 1."
```

Example

```
// Calculate the hyperbolic arc tangent of Log2
Val = "0.227064512498507649434129923403947"
Result = SRP_Math("ARCTANH", Val)
!! Result = 0.2310922164773755269152834064990119 !!
```

```
// Attempting to calculate the hyperbolic arc tangent of PI results in an error
Val = "3.1415926535897932384626433832795"
Result = SRP_Math("ARCTANH", Val)
!! Result = "ERROR: Value must be in range: 1 < Value < 1." !!
```