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## VC10HistVar

**V** = Variables

**C** = Calculation functions

The VC10HistVar function sets a result based on the value taken from a variable than other 2.  
The function follows the following truth table:

### Truth table

val01 > val02	result = -1
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All subsequent cases relate to val01  $\leftarrow$  Val02 and analyze only val03

val03 < val01	result = 0
val01 $\leftarrow$ val03 < val02	result = 1 if the result was = 1 result = 0 if the result was = 0
val03 >= val02	result = 1

The following chart: schematic illustration of the truth table:



## IMPLEMENTATION

### VC10HistVar (val01, val02, val03, result)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	SYSTEM	val01	L/S	First value to compare
IN	SYSTEM	val02	L/S	Second value to compare
IN	SYSTEM	val03	L/S	The value to compare with val01 and val02
OUT	SYSTEM	result	B	Variable containing the result of the comparison according to the truth table shown above

### Example

Run the comparison when the “gfComp” flag is set to 1.

```
IF gfComp
  gfComp = 0
  val01 = 1000
  val02 = 5000
  VC10HistVar (val01, val02, val03, result)
ENDIF
```

### Note

- The function executes a WAIT a time every 180 milliseconds
- To be effective, the function should be placed at a point of the application that runs on every round logical

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