VECTOR

How to Read Values from a Text File into an Array with CASL

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Support Note SN-IMC-1-054

Author(s) Himmel, Steve
Restrictions Public Document

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1 Description

The script `ReadValues.scr` can read an array from a text file and the script `ReadValues_2DArray.scr` can read a 2D array from a text file.

2 Disclaimer

3 Requirements

Text file with an array of numbers.

4 Source Code

4.1 ReadValues.scr

```
char filename[] = "test.txt";
long filehandle = 0;
long counter = 0;
double result = 0;
double value;

filehandle = OpenFile(filename, "r");
while (result != -1){
  result = FScan(filehandle, "%d\n", value);
  if (result != 1)
    break;
  BigArray[counter] = value;
  //write ("value: %g", BigArray[counter]);
  //write ("result: %d", result);
  counter++;
}
CloseFile(filehandle);
```

4.2 ReadValues_2DArray.scr

```
char filename[] = "test_2d.txt";
long filehandle = 0;
long counter_row = 0;
long counter_column = 0;
double result = 0;
double value_row, value_column;
int Rows, Columns;
int i,j,k;

filehandle = OpenFile(filename, "r");
```

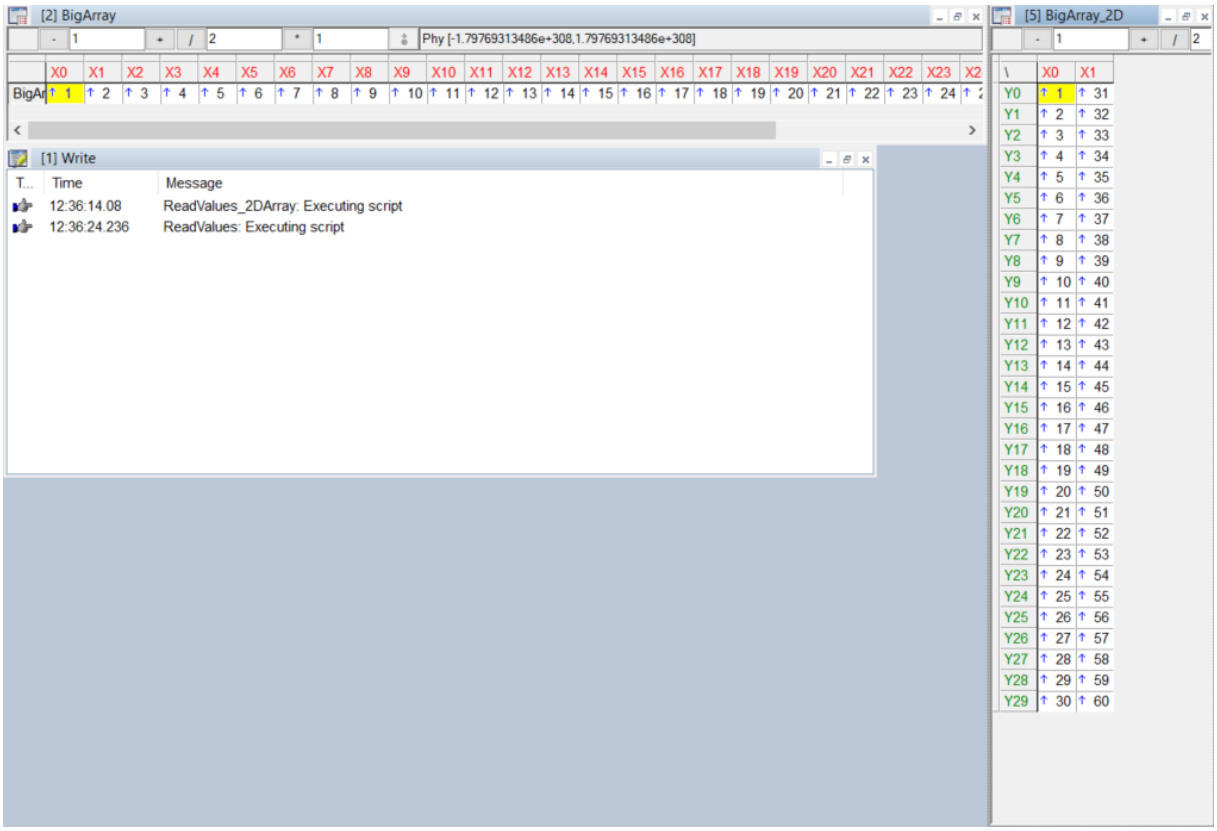
```
Rows    = ydimension(BigArray_2D);
Columns = xdimension(BigArray_2D);

//write("Nr. of Rows = %d", Rows);
//write("Nr. of Columns = %d", Columns);

while (result != -1) {
  result = FScan(filehandle, "%d %d", value_row, value_column);
  if (counter_row < Rows) {
    BigArray_2D[counter_row][counter_column] = value_row;
    counter_column++;
    BigArray_2D[counter_row][counter_column] = value_column;
    counter_row++;
    counter_column = 0;
  }
}

CloseFile(filehandle);
```

5 Screenshot



6 Associated files

The source code and/or example project files can be found in the ZIP archive SN-IMC-1-054_How_to_Read_Values_from_a_Text_File_into_an_Array_with_CASL.zip.

7 Contacts

For support related questions please address to the support contact for your country https://www.vector.com/int/en/company/contacts/support-contact/.