

# MEMGET

The MEMGET statement reads a portion of a memory block at an OFFSET position into a variable, array or user defined type.

## Syntax

MEMGET *memoryBlock*, *bytePosition*, *destinationVariable*

- *memoryBlock* is a MEM variable type memory block name created by MEMNEW or the MEM function.
- *bytePosition* is the *memoryBlock.OFFSET* memory start position plus any bytes to move into the block.
- *destinationVariable* is the variable assigned to hold the data. The number of bytes read is determined by the variable type used.

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## Description

- The MEMGET statement is similar to the GET statement used in files, but the position is required.
- The memory block name.OFFSET returns the starting byte position of the block. Add bytes to move into the block.
- The variable type held in the memory block can determine the next *bytePosition* to read.
- LEN can be used to determine the byte size of numerical or user defined variable types regardless of the value held.
- STRING values should be of a defined length. Variable length strings can actually move around in memory and not be found.

{{PageExamples}} *Example:* Shows how to read the PSET color values from a program's SCREEN memory to an array.

```
SCREEN 13
PSET (0, 0), 123
PSET (1, 0), 222 'create screen image

'here is an array
DIM screen_array(319, 199) AS UNSIGNED BYTE 'use screen dimensions from 0
```

'here's how we can copy the screen to our array

```
DIM m AS _MEM
```

```
m = _MEMIMAGE '0 or no handle necessary when accessing the current program screen  
_MEMGET m, m.OFFSET, screen_array()
```

'here's the proof

```
PRINT screen_array(0, 0) 'print 123
```

```
PRINT screen_array(1, 0) 'print 222
```

```
END
```

## See also

- [!\[\]\(97faa0168e491544be255cfcab218e9b\_img.jpg\) \\_MEMGET \(function\)](#)
- [!\[\]\(b2166b76608b8499cffc130bf1b1fe60\_img.jpg\) \\_MEMPUT](#)
- [!\[\]\(b29da0f81af7d31816596405aed0e378\_img.jpg\) \\_MEM](#)
- [!\[\]\(52b4a21f1e75ded8f9710f4114e70d28\_img.jpg\) \\_MEMIMAGE](#)
- [!\[\]\(07221912d1bf206beb97cefd77af5f78\_img.jpg\) \\_MEMFREE](#)

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This page was last edited on 23 January 2023, at 02:04.