

# GetJsonObjVal

***P1* = GetJsonObjVal(*P2*, *P3*, *P4*)**

## Operation:

Parses a string (*P2*) that notes a JSON object or a one-dimensional JSON object array and saves the extracted data in *P4*. The members and their data formats of the JSON object are defined by the specified text format (*P3*). The number of successfully parsed JSON objects is noted in *P1*.

## Parameters:

	Type	Size	Description
<b><i>P1</i></b>	I	W	Receives the count of successfully parsed JSON objects.
<b><i>P2</i></b>	I	WA	The string to be parsed. The string must be a null terminated Unicode string.
<b><i>P3</i></b>	C/I	W	The ID of the text format that defines the JSON object to be parsed.  Note: 1. No whitespace is allowed in the text format. 2. The "Sending/Receiving Data Values" option of the Specific Purposes of the text format must be selected. 3. The order of the object members in the string must be identical to the order in the text format. 4. No object members can be omitted in the string.
<b><i>P4</i></b>	I	W	The starting location of the internal memory block to save the object value(s).  Note: Be sure that enough memory space of the memory block is available for all the object values. For example, if an object needs 20 words and the array size is possibly up to 8,000, then you must make sure the memory block has 160,000 words available.

C: Constant; I: Internal variable; W: Word

## Example:

Assume we have a text format with an ID of 10 as shown in the following.

```
{"value_1":%1,"value_2": "%2"}
```

The text format defines a JSON object with 2 members. The first member is named value\_1. Its value is a number. The data type and the display format of the number are defined with the embedded variable %1. The second member is named value\_2. Its value is a string. The string type and the maximum string length are defined with the embedded variable %2. The following table shows the details of the properties of the two embedded variables.

	Embedded Variable %1	Embedded Variable %2
Data Type	16-Bit Unsigned Integer	Byte Array (Character String)
Display Type	16-Bit Unsigned Decimal	
Address	\$U3000	\$U3001
Total Digits	3	
Fractional Digits	1	
Max. String Length		7

Assume we have a macro that has 2 macro statements as shown below.

`$U0 = L["{"value_1" : 1.2, "value_2" : "abc"}, {"value_1" : 34.5, "value_2" : "tuvwxyz"}"]`

`$U100 = GetJsonObjVal($U0, 10, $U200) (U)`

After executing the macro, the values of the internal words associated with the above macro command GetJsonObjVal are listed below.

Internal Word(s)	Value	Comment
\$U100	2	Two JSON object values were parsed.
\$U200	12	
\$U201~\$U204	"abc"	
\$U205	345	
\$U206~209	"tuvwxyz"	
\$U3000	345	The word was used as a temporary buffer for the operation.
\$U3001~\$U3004	"tuvwxyz"	The words were used as a temporary buffer for the operation.