Rocket Uniface Library 10.4

$replace

Search and replace a substring of a string. The search and replace is case-sensitive.

`$replace` (*Source* , *StartPos* , *SearchFor* **,** *ReplaceWith* {**,** *Count*})

Example: vReplaced = $replace("a should be uppercase", 1, "a", "A", -1)

Parameters

Table: Parameters

Parameter	Data Type	Description
Source	String	String on which the replacement needs to be done.
StartPos	Numeric	Position in *Source* where the replacement needs to start.
SearchFor	String	Substring to search for. *SearchFor* can be a constant string, regex string, or syntax string.
ReplaceWith	String	Substitute for the substring.
Count	Numeric	Number of occurrences of the substring that should be replaced. If omitted, only the first occurrence of the substring is replaced. If *Count* is -1, all occurrences are replaced.

Return Values

String with the replacements made. `$replace` does not affect `$status`.

If *Source* is empty, `$replace` returns the empty string and an error in `$procerror`.

If *SearchFor* is empty, `$replace` returns the unaltered *Source* string and an error in `$procerror`.

Table: Values Commonly Returned by `$procerror` Following `$replace`

Value	Error Constant	Meaning
-1118	<UPROCERR_ARGUMENT>	The argument specified is incorrect.

Use

Allowed in all component types.

Description

Although the *Source* string can be 2048 MB, using very long *Source* strings (larger than 50,000 bytes) is not recommended because this can degrade performance.

Example: Using `$replace`

The following example replaces all occurrences of a with A:

```
vReplaced = $replace("a should be uppercase", 1, "a", "A", -1)
; Result: vReplaced = "A should be uppercAse"
```

The following example replaces only the first a:

```
vReplaced = $replace("a should be replaced by B", 1, "a", "B")
; Result: vReplaced = "B should be replaced by B"
```

The following example replaces all occurrences of a with A:

```
vReplaced = $replace("a should be uppercase",1,$regex("a"),"A",-1)
; Result: vReplaced = "A should be uppercAse"
```

The following example replaces all occurrences of F or f with a:

```
vReplaced = $replace("F should be replaced",1,$regex("f","i"),"a",-1)
; Result: vReplaced = " a should be replaced"
```

Example: Operation GETXMLITEM

This operation calls an XSLT stylesheet and returns the value of a node in an XML stream. The parameters can specify one node or several nodes.

GETXMLITEM uses `$replace` to insert parameters `XNODE` and `XVALUE` into an XSLT stylesheet, and uses component `USYSXSLT` to process the XSLT stylesheet. For more information about the XSLT stylesheet used by this operation, and examples of input and output data, see USYSXSLT.

```
operation GETXMLITEM
; Get an item or set of items from an XML stream
; using XPATH patterns.
; Modify an XSLT stylesheet using the $replace
; function, and then activate USYSXSLT.
params
 numeric I_STATUS : OUT
 string I_STATUSCONTEXT : OUT
 string I_XML : IN
 string XNODE : IN
 string XVALUE : IN
 string I_VALUE : OUT
endparams
variables
 string XSLTFILE
endvariables
fileload "getitem.xsl", XSLTFILE
XSLTFILE = $replace(XSLTFILE, 1, "TargetNode", XNODE)
XSLTFILE = $replace(XSLTFILE, 1, "TargetValue", XVALUE)
filedump XSLTFILE, "getitemtemp.xsl"
```

```
activate "USYSXSLT".XMLTRANSFORM(I_XML, "getitemtemp.xsl", " ", I_VALUE, I_STATUS, I_STATUSCONTEX
T)
end ; operation GETXMLITEM
```