



Rocket Uniface Library 10.4

Struct Dereference Operator (->)

Access the members of a Struct by name.

StructVariable -> *MemberName* | *StructFunction*

Arguments

- *StructVariable*—variable or parameter of type **struct** which refers to one or more Structs
- *MemberName*—Struct member identifier; can be a literal name or a string; for example `mem` or `"mem"`. An empty string `""` returns Structs with no name.
- *Function*—Struct function. For more information, see [ProcScript: Struct Functions](#).

Return Values

Returns an ordered collection of references to members of the Struct to which *StructVariable* refers.

If *StructVariable* refers to a collection of Structs rather than to a single Struct, the expression is evaluated for each Struct in the collection, and the resulting collections are combined into a single ordered collection of Structs.

If there are no members that satisfy the criteria, the result is NULL and an error is set in **\$procerror**.

Table: Values of \$procerror Commonly Returned Following ->

Error number	Error Constant	Meaning
-84	ACTERR_NO_OBJECT	Struct operator applied to non-Struct
-1153	USTRUCTERR_INDEX_NOT_ALLOWED	Struct index is not allowed
-1155	USTRUCTERR_MEMBER_NOT_FOUND	The Struct does not contain a member with the specified name.
-1157	USTRUCTERR_ILLEGAL_MEMBER_TYPE	<i>StructVariable</i> is not of type struct or any

Use

Allowed in all components.


Description

The arrow `->` is known as the dereference operator because the Struct being referred to changes (is de-referenced) from the one on the left to the one on the right. The dereference operator can be used multiple times in a statement to travers the nested levels of a Struct to get to the Struct member you need. For example, if you have a Struct referring to book that includes a Preface, you need to start from the top of the Struct nad use the dereference

operator to get the Preface, and use it again to get the Acknowledgements section:

```
vStruct = Book->Preface->Acknowledgements
```

You can use the dereference operator to address Structs by name. By specifying an empty string (""), you can access nameless Structs. By using the * asterisk wildcard after the operator, you can get a collection of references to all members of a Struct.

 **Important:** The * wildcard can only be used after the dereference operator. It cannot be used in constructs such as `vStruct->c*` to get all Structs whose names begin with `c.` `->*` is actually a separate operator (the Struct collection operator).

Member Names as Strings

MemberName can be specified as a string, which means that it is possible to:

- Use string substitution to access a field name. For example, the following code returns the members with the name as specified in field F1.

```
vStruct->"%F1%"
```

- Specify member names that include any character, including spaces, #, and \$.

```
vStruct->"first name"
```

- Address Struct members that have an empty string as name:

```
vStruct->"
```

If a Struct has several members with the same name, you can access one of these members specifically, by using the dereference operator in combination with the struct index operator {N}. For example:

```
vBookStruct->chapter{2}
```

Related concepts

[Substitution in String Values](#)