Rocket software

Rocket Uniface Library 10.4

$isLeaf

Checks whether a Struct member is an end point of the Struct tree.

Struct `->` `$isLeaf`

Return Values

Return Value	Meaning
`0`	*Struct* refers to a nested Struct
`1`	*Struct* refers to Struct leaf.

Table: Values of $procerror Commonly Returned Following Struct Functions

Value	Error Constant	Meaning
`-84`	`UACTERR_NO_OBJECT`	*Struct* refers to zero Structs
`-1151`	`USTRUCTERR_NO_COMMON_CHARACTERISTICS`	Collection of Structs that do not share a common parent or the specified characteristic
`-1157`	`USTRUCTERR_ILLEGAL_MEMBER_TYPE`	Not a valid Struct member type

Description

A leaf is the logical endpoint in a tree. All scalar Struct members are leaves in the Struct tree, but the reverse is not always true. For more information, see the "Struct Leaves" topic.

If a Struct is a scalar Struct, or if it has a value and no sub nodes, it is a leaf and `$isLeaf` returns `1` (true).

Check for Struct Nodes before Iterating

You can use `$isLeaf` to check whether a member is a nested Struct, before using `$membercount`. For example:

```
if (!vStruct->$isLeaf)  If vStruct refers to the node
                         of a nested Struct.
  i = 1
  while (i <= vStruct->$membercount)  Get the number of members in the node.
    putmess "Member %%I have name %%(vStruct->*{i}->$name)"  Put the name of each member in the message
                         frame.
        i = i + 1
  endwhile
endif
```

1. If `vStruct` refers to the node of a nested Struct.
2. Get the number of members in the node.
3. Put the name of each member in the message frame.

Related reference

[Struct Leaves]