

QuarkEmu Lua Programming API

Introduction

QuarkEmu provide extra `emulator` library for interacting with LUA applications during execution. This library comes with new global variable set and new functions. Some of these functions have no other usage than be involved on TDD (Test Driven Development) approach to make this application. Some other (as chart or simulation) offer special extention to simulate sensors, controls and graph output results.

Global variables

Name	Description
<code>QEMU_SCREENCOPY_MAIN</code>	Specifies main window as source of screen copy
<code>QEMU_SCREENCOPY_TELEMETRY1</code>	Specifies Telemetry1 window as source of screen copy
<code>QEMU_SCREENCOPY_TELEMETRY2</code>	Specifies Telemetry2 window as source of screen copy
<code>QEMU_SCREENCOPY_CHART</code>	Specifies Chart window as source of screen copy
<code>QEMU_AXISTYPE_NOAXIS</code>	for createChart()
<code>QEMU_AXISTYPE_VALUE</code>	for createChart()
<code>QEMU_AXISTYPE_BARCATEGORY</code>	for createChart()
<code>QEMU_AXISTYPE_CATEGORY</code>	for createChart()
<code>QEMU_AXISTYPE_DATETIME</code>	for createChart()
<code>QEMU_AXISTYPE_LOGVALUE</code>	for createChart()
<code>QEMU_RC_TYPE_QUARKEMU</code>	Default RC Type when USB link not active
<code>QEMU_RC_TYPE_DC16</code>	DC 16 Radio control connected
<code>QEMU_RC_TYPE_DS16</code>	DS 16 Radio control connected
<code>QEMU_RC_TYPE_DC14</code>	DC 14 Radio control connected
<code>QEMU_RC_TYPE_DS14</code>	DS 14 Radio control connected
<code>QEMU_RC_TYPE_DC24</code>	DC 24 Radio control connected

<code>QEMU_RC_TYPE_DS24</code>	DS 24 Radio control connected
<code>QEMU_PLATFORM_MAC</code>	App is running on MacOS
<code>QEMU_PLATFORM_WIN</code>	App is running on Windows
<code>QEMU_PLATFORM_LIN</code>	App is running on Linux
<code>QEMU_ERROR_TYPE_NONE</code>	for showMessage()
<code>QEMU_ERROR_TYPE_INFO</code>	for showMessage()
<code>QEMU_ERROR_TYPE_WARN</code>	for showMessage()
<code>QEMU_ERROR_TYPE_ERR</code>	for showMessage()
<code>QEMU_ERROR_TYPE_CRIT</code>	for showMessage()

Emulator library

`tdd` : This flag means that function is only implemented for Test Driven Development usage (for making QuarkEmu) and may have equivalent function in regular Jeti libraries.

Name	Description
<code>time</code> ^{tdd}	Get current time
<code>date</code> ^{tdd}	Get local date since Jan 1st 2000
<code>sleep</code>	Freeze exec until approx. N sec
<code>getFirmwareVersion</code>	Get firmware value set in pref. dialogbox
<code>setFirmwareVersion</code>	Set firmware value
<code>getLocale</code> ^{tdd}	Alias to <code>system.getLocale ()</code>
<code>getUserName</code> ^{tdd}	Get user name value set in preferences dialogbox
<code>getSerialCode</code> ^{tdd}	Get serial code value set in preferences dialogbox
<code>deleteFile</code>	Removes the file specified by the filepath given
<code>getControl</code>	Get attributs of a given control
<code>simulateInput</code>	Affect a given numeric value to a given control
<code>resetInputs</code>	Set all inout control a reset value

createSwitchItem	Fastest way to create SwitchItem datatype
isFuzzyEqual ^{tdd}	Fuzzy numbers comparison
getPlatformType ^{tdd}	Get currently running platform type
showMessage	Popup a message then optionally raise error
resetSystemProperties	Reset system properties to default values
getInputDeviceType	Get current type of input dev connected to USB
changeInputDeviceType	Force input device to be a given type
copyScreen	Save given window to PNG image
compareScreen	Bitmap comparison of two PNG Image
setCheckMaxWindow ^{tdd}	Enable or disable max form/telemetry window check
resetWindowStack ^{tdd}	Clean all form or telemetry 1 & 2 windows
getBgColor	Get background color of current selected profil
getFgColor	Get foreground color of current selected profil
enterLoop ^{tdd}	Enter in Lua events loop
exitLoop ^{tdd}	Exit Lua events loop
simulatePressKey ^{tdd}	Send PressKey event to current event loop
createChart	Add new tab in chart dock window, create a new chart window
deleteChart	Delete chart window, remove corresponding tab panel
createSeries	Create a new series attached to a given chart
deleteSeries	
addPointChart	
clearChart	
setChartProperties	
getFormProperty	
sendCommand	
setFormEnableSelection	

setCallbackOnRegisterForm	
setCallbackOnLoopForm	
getSwitchItemAttr ^{tdd}	
resetCPUUsageCount ^{tdd}	

Library functions reference

This section describe all `Emulator` library functions embedded in QuarkEmu. **Warning** This library is not supported by Jeti Radio Control systems, and must not be used inside Lua code upload to them.

emulator.time () ^{tdd}

This function get current time by calling `posix ::time(NULL)` C function.

Parameters

- none

Return value

- (integer) - current time

Examples

```

1 | -- Displays a blinking text
2 | local function printForm()
3 |     if(emulator.getTime() % 2 == 0) then
4 |         lcd.drawText(10,30,"Blinking text",FONT_MAXI)
5 |     end
6 | end

```

emulator.date ([format [, time]]) ^{tdd}

Alias to LUA wellknown function `os.date ([format [, time]])`.

Parameters

- **inputFormat** (string) - see LUA `os.date ([format [, time]])` documentation.

Return value

- (string or table) - Returns a string or a table containing date and time, formatted according to the given string format.

Examples

emulator.sleep (<delay>)

Freeze current execution.

Parameters

- **delay** (number) - time delay in second

Return value

- none

Examples

```
1 | local function printForm()
2 |     lcd.drawText(10,30,"text before",FONT_MAXI)
3 |     emulator.sleep(5) -- wait 5 sec
4 |     lcd.drawText(10,30,"text after",FONT_MAXI)
5 | end
```

emulator.getFirmwareVersion ()

Get firmware value set in preferences dialogbox.

Parameters

- none

Return value

- (string) - version value

Examples

```
1 | print(emulator.getFirmwareVersion())
2 | -- print 4.22
```

emulator.setFirmwareVersion (<version>)

Set a new firmware value (same effect than direct setting in preferences dialogbox).

Parameters

- **version** (string) - version value to be set.

Return value

- none

Examples

```
1 | emulator.setFirmwareVersion("4.20")
2 | print(emulator.getFirmwareVersion())
3 | -- print 4.20
```

emulator.getLocale () ^{tdd}

Alias to system.getLocale ()

Parameters

- none

Return value

- (string) – locale (cz, de, en, fr, it, pt...).

Examples

- see system.getLocale ()

emulator.getUserName () ^{tdd}

Get user name value set in preferences dialogbox.

Parameters

- none

Return value

- (string) – user name.

Examples

emulator.getSerialCode () ^{tdd}

Get serial code value set in preferences dialogbox.

Parameters

- none

Return value

- (string) – serial code.

Examples

emulator.deleteFile (<filepath>)

Removes the file specified by the filepath given.

Parameters

- **filepath** (string) - a specified filepath path located on the SD card. Only relative paths to root app directory are used. The path should be accessible.

Return value

- (boolean) – true if successful; otherwise returns false.

Examples

```
1 | emulator.deleteFile("Apps/foo.lua")
```

emulator.getControl (<controlNo>)

The getControl() function retrieve attributes of a given control. Prior to calling this function the control must be successfully registered using [system.registerControl\(\)](#).

Parameters

- **controlNo** (integer) - desired control identifier (from 1 to 10).

Return value

- (list) - **value** (number), **label** (string), **shortLabel** (string)
- nil – controlNo is not registered.

Examples

```
1 | local ctrlIdx = system.registerControl(1, "LowPass Ctrl", "C01")
2 |
3 | system.setControl(ctrlIdx, system.getInputs("P2"), 0, 0)
4 |
5 | local value, label, shortLabel = emulator.getControl(1)
```

emulator.simulateInput (<input>, <value>)

Affect a given numeric value to a given control.

Parameters

- **input** (string) – specified input controls.

Allowed controls	Code
Sticks/proportional controls	P1, P2, P3, P4, P5, P6, P7, P8
Switches	SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL
PPM inputs	CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8
Servo outputs	O1, O2, ..., O24

- **value** (number) - desired value (from -1.0 to 1.0)

Return value

- (boolean) - true when **input** is valid, false otherwise

Examples

```
1 | local ctrlIdx = system.registerControl(1, "LowPass Ctrl", "C01")
2 | system.setControl(ctrlIdx, system.getInputs("P2"), 0, 0)
3 | local value, label, shortLabel = emulator.getControl(1)
4 |
5 | emulator.simulateInput("P2", -0.5)
```

emulator.resetInputs ()

Set P1 to P8 controls to 0.0, set SA to SL switches to -1.0, set trainer inputs T1 to T16 to 0, set PPM inputs CH1 to CH8 to 0, set servo outputs O1 to 24 to 0.0 .

Parameters

- none

Return value

- none

Examples

```
1 | emulator.resetInputs()
2 |
3 | -- check sticks/proportional controls
4 | -- check default values
5 | local p1 = system.getInputs("P1")
6 |
7 | assert(emulator.isFuzzyEqual(p1, 0.0, 0.015))
```

emulator.createSwitchItem (<input>, <proportional>, <assigned>)

Fastest way to create SwitchItem datatype rather than use [form.addInputbox\(\)](#).

Parameters

- input (string) - specified input controls.

Allowed controls	Code
Sticks/proportional controls	P1, P2, P3, P4, P5, P6, P7, P8
Switches	SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL

- proportional (boolean) -
- assigned (boolean) -

Return value

- (SwitchItem) - new SwitchItem datatype

Examples

```
1 emulator.simulateInput("P1", 0.22)
2 local switch = emulator.createSwitchItem("P1", true, true)
3 local val = system.getInputsVal(switch)
4
5 assert(emulator.isFuzzyEqual(val, 0.22, 0.015))
```

emulator.isFuzzyEqual (<data1>, <data2>, <precision>) ^{tdd}

Fuzzy numbers comparison.

Parameters

- **data1** (number) - first data to compare
- **data2** (number) - second data to compare
- **precision** (number) - maximum unsigned spread allowed between data1 and data2

Return value

- (boolean) - **true** if comparison is lower than precision, otherwise **false**
- nil - when data1 or data2 are not number type

Examples

```
1 | assert(emulator.isFuzzyEqual(0.2, 0.22, 0.015))
2 | -- raise error as abs(0.2-0.22) > 0.015
```

emulator.getPlatformType (<bar>, <bar>) tdd

Get currently running platform type.

Parameters

- none

Return value

- (integer) - return `QEMU_PLATFORM_MAC` , `QEMU_PLATFORM_WIN` or `QEMU_PLATFORM_LIN`

Examples

emulator.showMessage (<message>, [<raiseErrorType>])

Pop up a message then optionally raise error.

Parameters

- **message** (string) - Message text displayed on messageBox. HTML format allowed.
- **raiseErrorType** (integer) - must be one of following:

ErrorType	action
<code>QEMU_ERROR_TYPE_NONE</code>	no error raised
<code>QEMU_ERROR_TYPE_INFO</code>	information raised error reason is message
<code>QEMU_ERROR_TYPE_WARN</code>	warning raised error reason is message
<code>QEMU_ERROR_TYPE_ERR</code>	error raised error reason is message
<code>QEMU_ERROR_TYPE_CRIT</code>	critical raised error reason is message

Return value

- none

Examples

```
1 | emulator.showMessage("<html><font color=\"red\">Tests aborted  
2 | </font>:<br> This test fails.</html>", QEMU_ERROR_TYPE_ERR)
```

emulator.resetSystemProperties ()

Reset system properties to following default values:

Property name	value
WirelessEnabled	0
Volume	8
VolumePlayback	50
VolumeBeep	50
Backlight	500
Color	color set in preferences dialogbox
BacklightMode	3
Model	Model name set in preferences dialogbox
ModelFile	Model filename set in preferences dialogbox

Parameters

- none

Return value

- none

Examples

emulator.getInputDeviceType (<deviceId>)

Get the current type of input device (RadioControl) connected (via USB link) to QuarkEmu.

Parameters

- **deviceID** (integer) - for future use, must always set to 1

Return value

- (integer) - code returned could be:

return code
QEMU_RC_TYPE_QUARKEMU
QEMU_RC_TYPE_DC16
QEMU_RC_TYPE_DS16
QEMU_RC_TYPE_DC14
QEMU_RC_TYPE_DS14
QEMU_RC_TYPE_DC24
QEMU_RC_TYPE_DS24

Examples

emulator.changeInputDeviceType (<deviceID>, <deviceType>)

Force input device to be a given type, even if Radio Control is connected to USB link.

Parameters

- **deviceID** (integer) - for future use, must always set to 1
- **deviceType** (integer) - code as defined in [emulator.getInputDeviceType](#)

Return value

- (boolean) - true when succeed, false otherwise

Examples

```
1 | emulator.changeInputDeviceType(1, 0x02A6) -- change RC to DC 24
```

emulator.copyScreen (<windowType>, <formNo>, <filepath>)

Save given window to PNG image.

Parameters

- **windowType** (integer) - use following values:

windowType
QEMU_SCREENCOPY_MAIN
QEMU_SCREENCOPY_TELEMETRY1
QEMU_SCREENCOPY_TELEMETRY2
QEMU_SCREENCOPY_CHART

- **formNo** (integer) - form identifier
- **filepath** (string) - a specified path located on the SD card. Relative or absolute paths can be used. The path should be accessible.

Return value

- (boolean) - true when succeed, false otherwise

Examples

```
1 | emulator.copyScreen(QEMU_SCREENCOPY_MAIN, 1, "Apps/img/form1.png")
```

emulator.compareScreen (<windowType1>, <formNo1>, <filepath2>)

Bitmap comparison between image1 and image2.

Parameters

- **windowType** (integer) - Image1, use following values:

windowType
QEMU_SCREENCOPY_MAIN
QEMU_SCREENCOPY_TELEMETRY1
QEMU_SCREENCOPY_TELEMETRY2
QEMU_SCREENCOPY_CHART

- **formNo** (integer) - Image1 form identifier
- **filepath** (string) - Image2 path located on the SD card. Relative or absolute paths can be used. The path should be accessible.

Return value

- none

Examples

```

1 | emulator.copyScreen(QEMU_SCREENCOPY_MAIN, 1, "Apps/img/form1.png")
2 | assert(emulator.compareScreen(QEMU_SCREENCOPY_MAIN, 2, "Apps/img/form1.png"))
3 | -- compare formNo 1 vs formNo 2

```

emulator.setCheckMaxWindow (<value>) ^{tdd}

Enable or disable max form or telemetry window check during registering. Use to bypass 2 max windows allowed.

Parameters

- (boolean) - true for enabling check, false for disabling.

Return value

- none

Examples

emulator.resetWindowStack () ^{tdd}

Clean all form or telemetry 1 & 2 windows.

Parameters

- none

Return value

- none

Examples

emulator.getBgColor ()

Get background color of current selected profil in preferences dialogbox.

Parameters

- none

Return value

- (list) - red (integer), green (integer), blue (integer)

Examples

```
1 | local r,g,b = emulator.getBgColor()
```

emulator.getFgColor ()

Get foreground color of current selected profil in preferences dialogbox.

Parameters

- none

Return value

- (list) - red (integer), green (integer), blue (integer)

Examples


```
1 | local r,g,b = emulator.getFgColor()
```

emulator.enterLoop ([loopCallback]) ^{tdd}

Enter in Lua events loop. This loop processed all `init()`, `print()` functions attached to forms and windows telemetry.

warning: This function cannot be nested.

Parameters

- **loopCallback** (function) - optional function that is called each time a new loop is started.

Return value

- (boolean) - true if no errors occurs during loop, false otherwise.

Examples

```
1 | local function initForm()
2 | end
3 |
4 | local function printForm()
5 |     emulator.exitLoop()
6 | end
7 |
8 | system.registerForm(1, MENU_MAIN, "foobar", initForm, nil, printForm)
9 |
10 | assert(emulator.enterLoop() == true)
11 |
12 | system.unregisterForm(1)
```

emulator.exitLoop () ^{tdd}

Exit current Lua events loop.

Parameters

- none

Return value

- none

Examples

emulator.simulatePressKey (<keyCode>)

Send PressKey event to current event loop.

Parameters

- **keyCode** (integer) - Use to simulate a button event

Code
KEY_1
KEY_2
KEY_3
KEY_4
KEY_5
KEY_MENU
KEY_ESC
KEY_ENTER
KEY_CW
KEY_ACW
KEY_POWER
KEY_RELEASED

- **keyCode** (string) - Use to simulate a key pressed to selectBox, intBox, ...

Return value

- none

Examples

emulator.createChart (<title>, <tabName>, <tx>, <ty>)

Add a new tab in chart dock window and create a new chart window.

Parameters

- **title** (string) - title centered in the top of chart window.
- **tabName** (string) - tab's name
- **tx** (integer) - X Axis type
- **ty** (integer) - Y Axis type

Axis type
QEMU_AXISTYPE_NOAXIS
QEMU_AXISTYPE_VALUE
QEMU_AXISTYPE_BARCATEGORY
QEMU_AXISTYPE_CATEGORY
QEMU_AXISTYPE_DATETIME
QEMU_AXISTYPE_LOGVALUE

Return value

- (integer) - chartID used by ***deleteChart()***, ***createSeries()***, ***deleteSeries()***, ***addPointChart()***, ***clearChart()***, ***setChartProperties()***

Examples

```
1 | local chartID1 = emulator.createChart("Chart1", "Chart1", QEMU_AXISTYPE_VALU
```

emulator.deleteChart (<chartID>)

Delete chart window and remove corresponding tab panel.

Parameters

- **chartID** (integer) - ID of chart to delete

Return value

- (boolean) - true id chartID is found and chart deleted, false otherwise

Examples

```
1 | local chartID1 = emulator.createChart("Chart1", "Chart1", QEMU_AXISTYPE_VALU
2 | emulator.deleteChart(chartID1)
```

emulator.createSeries (<chartID>)

Create a new series attached to a given chart.

Parameters

- **chartID** (integer) - ID of chart to add a series into

Return value

- (integer) - serieID

Examples

```
1 | local chartID1 = emulator.createChart("Chart1", "Chart1", QEMU_AXISTYPE_VALU
2 | local seriesID1 = emulator.createSeries(chartID1)
3 | ...
4 | emulator.deleteChart(chartID1)
```

emulator.deleteSeries (<chartID>, <serieID>)

Remove a given chart serie, then delete the serie.

Parameters

- **chartID** (integer) - ID of chart to delete
- **serieID** (integer) - ID of serie to delete

Return value

- (boolean) - true if succeed

Examples

```
1 | local chartID1 = emulator.createChart("Chart1", "Chart1", QEMU_AXISTYPE_VALU
2 | local seriesID1 = emulator.createSeries(chartID1)
3 | ...
4 | emulator.deleteSeries(chartID1, seriesID1)
```

emulator.addPointChart (<chartID>, <serieID>, <x>, <y>)

Add a new point (x,y) to the given serie

Parameters

- **chartID** (integer) - ID of chart
- **serieID** integer) - ID of serie
- **x** (number) - X value of point
- **y** (number) - Y value of point

Return value

- (boolean) - true if succeed

Examples

```
1 | local chartID1 = emulator.createChart("Chart1", "Chart1", QEMU_AXISTYPE_VALU
2 | local seriesID1 = emulator.createSeries(chartID1)
3 | ...
4 | emulator.addPointChart(chartID1, seriesID1, 10, 20) -- add point (10, 20)
```

emulator.clearChart (<chartID>, <serieID>)

Remove all points of a given serie, without deleting it.

Parameters

- **chartID** (integer) - ID of chart
- **serieID** (integer) - ID of serie

Return value

- (boolean) - true if succeed

Examples

```
1 | local chartID1 = emulator.createChart("Chart1", "Chart1", QEMU_AXISTYPE_VALU
2 | local seriesID1 = emulator.createSeries(chartID1)
3 | ...
4 | emulator.clearChart(chartID1, seriesID1)
```

emulator.setChartProperties (<chartID>, <params>)

Parameters

- **chartID** (integer) - ID of chart
- **params** (table) -

Field name	type	Value
SamplingRate	number	from 0 (no sampling) to 5000 ms
RefreshRate	number	from 50 to 5000
ScrollMode	boolean	true or false
Title	string	Text written near axis
Enable	boolean	true or false
Cx	number	multiplier coef applied to X axis (default 1.0)
Cy	number	multiplier coef applied to Y axis (default 1.0)
AxisX	table	axis params, see Axis table format
AxisY	table	axis params, see Axis table format

Axis table format

Field name	type	Description
Title	string	axis title
LinePen	integer	defines the pen styles, see Axis LinePen style
Format	string	The format string supports the following conversion specifiers, length modifiers, and flags provided by printf() in the standard C++ library: d, i, o, x, X, f, F, e, E, g, G, c

Axis LinePen style

Value	Description
0	No line at all
1	A plain line
2	Dashes separated by a few pixels
3	Dots separated by a few pixels
4	Alternate dots and dashes
5	One dash, two dots, one dash, two dots

Return value

- (boolean) - true of succeed

Examples

```

1 |
2 |     chartID1 = emulator.createChart("Radio Control axis", "Axis", QEMU_AXISTYPE_
3 |
4 |     local prop =
5 |     {
6 |         ScrollMode = true,
7 |         AxisX = {Title = "Samples", Format = "%d", LinePen = 2},
8 |         AxisY = {Title = "Value", Format = "%.2f"}
9 |     }
10 |
11 |     emulator.setChartProperties(chartID1, prop)

```

emulator.getFormProperty (<componentIndex>)

Parameters

- **componentIndex** (integer) - an index of the component that was returned by calling the appropriate form.addXXX() function of the current form.

Return value

- (table) -
 - if componentIndex >= 0

a table with mixture of supported parameters:

 - visible (boolean) – specifies the form item visibility.
 - enabled (boolean) – specifies that the form item can be focused.
 - label (string) – specifies a new text label (supported only by label, link and intbox).
 - alignRight (boolean) – true for right-aligned text (supported only by label and link).
 - if componentIndex < 0

a table getting current form IDs

 - ID (integer) - current form ID
 - subID (integer) - current form subID

Examples

emulator.sendCommand (<cmd>)

Send a command to internal debugger or input device layer. All these commands are also available by direct typing them in console.

Parameters

- **cmd** (string) -

Commands	Description
<code>c</code>	Continue
<code>f</code>	Finish/stop
<code>s</code>	Step in function
<code>n</code>	Step over function
<code>p var</code>	Print on console variable var
<code>sdl</code>	Toggle command enable/disable SDL trace

Return value

- none

Examples

emulator.setFormEnableSelection (<mode>)

Enable/disable selection of the current form.

Parameters

- `mode` (boolean) - *true* or *false*

Return value

Examples

emulator.setCallbackOnRegisterForm (<registerCallback>)

Set a Lua callback/hook that has been called after form is registered, with form ID as single parameter.

Parameters

- `registerCallback` (lua function) - callback function

Return value

- (boolean) - true if succeed

Examples

```
1 | local function onRegisterCallback(formID)
2 |     if(formID == -3) then -- -3 is formID of inner input form choice
3 |         ...
4 |     end
5 | end
6 |
7 | emulator.setCallbackOnRegisterForm(onRegisterCallback)
8 |
9 | system.registerForm(1, MENU_MAIN, "checkFormInputbox", initForm, nil, printF
10 |
```

emulator.setCallbackOnLoopForm (<formID>, <loopCallback>)

Set a Lua callback/hook that has been called after form is registered in looping phase, with form ID as single parameter.

Parameters

- **formID** (Lua function) - ID of the form
- **loopCallback** (Lua function) - callback function

Return value

- (boolean) - true if succeed

Examples

```
1 | local function onLoopCallback()
2 |     emulator.simulateInput("P1", 0.85)
3 | end
4 |
5 | emulator.setCallbackOnLoopForm(formID, onLoopCallback)
```

emulator.getSwitchItemAttr^{td} (<SwitchItem>)

Return attributes of a SwitchItem.

Parameters

- **SwitchItem** (SwitchItem) - The given SwitchItem

Return value

- (table) -

Fields	Type
ID	string
isProportional	boolean
isAssigned	boolean
value	number

Examples

emulator.resetCPUUsageCount ^{*td*} ()

Reset the counter involved in CPU usage calculation.

Parameters

- none

Return value

- none

Examples

Version history

Version	Description
2017.09.25	First release