

MBS REALbasic SnowLeopard Plugin Documentation

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0.1 Introduction

This is the PDF version of the documentation for the REALbasic Plug-in from Monkeybread Software Germany. Plugin part: MBS REALbasic SnowLeopard Plugin

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Chapter 2

CoreLocation

2.1 class CLLocationManagerMBS

class CLLocationManagerMBS

class, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The CoreLocation base class.

Example:

```
dim c as new CLLocationManagerMBS
```

```
c.startUpdatingLocation
```

Notes:

The CLLocationManagerMBS class defines the interface for configuring the delivery of location- and heading-related events to your application. You use an instance of this class to establish the parameters that determine when location and heading events should be delivered. You can also a location manager object to retrieve the most recent location data.

To use a CLLocationManagerMBS object to deliver location events, create an instance, configure the desired accuracy and distance filter values, and call the startUpdatingLocation method. The location service returns

an initial location as quickly as possible, returning cached information when available. After delivery of the initial event notification, the CLLocationManagerMBS object may deliver additional events if the minimum threshold distance (as specified by the distanceFilter property) is exceeded or a more accurate location value is determined.

Important: The user has the option of denying an applications access to the location service data. During its initial uses by an application, the Core Location framework prompts the user to confirm that using the location service is acceptable. If the user denies the request, the CLLocationManagerMBS object reports an appropriate error to its delegate during future requests.

2.1.1 Methods

Constructor

method from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The constructor.

Example:

```
dim c as new CLLocationManagerMBS

MsgBox str(c.Handle) // not zero on success
```

desiredAccuracy as double

method from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The desired accuracy of the location data.

Example:

```
dim c as new CLLocationManagerMBS

c.desiredAccuracy=CLLocationMBS.kCLLocationAccuracyBest
```

Notes:

The receiver does its best to achieve the requested accuracy; however, the actual accuracy is not guaranteed.

You should assign a value to this property that is appropriate for your usage scenario. In other words, if you need only the current location within a few kilometers, you should not specify `kCLLocationAccuracyBest` for the accuracy. Determining a location with greater accuracy requires more time and more power.

When requesting high accuracy location data, the initial event delivered by the location service may not have the accuracy you requested. The location service delivers the initial event as quickly as possible. It then continues to determine the location with the accuracy you requested and delivers additional events, as necessary, when that data is available.

The default value of this property is `kCLLocationAccuracyBest`.
(Read and Write computed property)

distanceFilter as double

method from class `CLLocationManagerMBS`, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The minimum distance (measured in meters) a device must move laterally before an update event is generated.

Example:

```
dim c as new CLLocationManagerMBS
c.distanceFilter=CLLocationMBS.kCLDistanceFilterNone
```

Notes:

This distance is measured relative to the previously delivered location. Use the value `kCLDistanceFilterNone` to be notified of all movements.

The default value of this property is `kCLDistanceFilterNone`.

(Read and Write computed property)

location as CLLocationMBS

method from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The most recently retrieved user location.

Example:

```
dim c as new CLLocationMBS(1,2,3,4,5,nil)
```

```
MsgBox c.description
```

Notes:

The value of this property is nil if no location data has ever been retrieved.

It is a good idea to check the timestamp of the location that is returned. If the receiver is currently gathering location data, but the minimum distance filter is large, the returned location might be relatively old. If it is, you can stop the receiver and start it again to force an update.

locationServicesAvailable as boolean

shared method from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Whether the CoreLocation framework is available.

Example:

```
if CLLocationManagerMBS.locationServicesAvailable then
if CLLocationManagerMBS.locationServicesEnabled then
MsgBox "available and enabled"
else
MsgBox "available and not enabled"
```

```
end if
else
MsgBox "Not available"
end if
```

Notes: Returns true on Mac OS X 10.6 and false on all other systems.

locationServicesEnabled as boolean

shared method from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: A Boolean value indicating whether location services are enabled on the device.

Example:

```
if CLLocationManagerMBS.locationServicesAvailable then
if CLLocationManagerMBS.locationServicesEnabled then
MsgBox "available and enabled"
else
MsgBox "available and not enabled"
end if
else
MsgBox "Not available"
end if
```

startUpdatingLocation

method from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Starts the generation of updates that report the users current location.

Example:

```
dim c as new CLLocationManagerMBS

c.startUpdatingLocation
```

Notes:

This method returns immediately. Calling this method when the receiver is stopped causes it to obtain an initial location fix (which may take several seconds) and notify your delegate. After that, the receiver generates update events primarily when the value in the `distanceFilter` property is exceeded. Updates may be delivered in other situations though. For example, the receiver may send another notification if the hardware gathers a more accurate location reading.

Calling this method several times in succession does not automatically result in new events being generated. Calling `stopUpdatingLocation` in between, however, does cause a new initial event to be sent the next time you call this method.

stopUpdatingLocation

method from class `CLLocationManagerMBS`, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Stops the generation of location updates.

Example:

```
dim c as new CLLocationManagerMBS
```

```
c.startUpdatingLocation
// later
c.stopUpdatingLocation
```

Notes: You should call this method whenever your code no longer needs to receive location-related events. Disabling event delivery gives the receiver the option of disabling the appropriate hardware (and thereby saving power) when no clients need location data. You can always restart the generation of location updates by calling the `startUpdatingLocation` method again.

2.1.2 Properties

Handle as Integer

property from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The internal reference to the CLLocationManager object.

Example:

```
dim c as new CLLocationManagerMBS
MsgBox str(c.Handle) // not zero on success
```

Notes: (Read and Write property)

2.1.3 Events

Error(error as NSErrorMBS)

event from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Tells you that the location manager was unable to retrieve a location value.

Notes:

error: The error object containing the reason why the location could not be retrieved.

If the location service is unable to retrieve a location fix right away, it reports a kCLErrorLocationUnknown error and keeps trying. In such a situation, you can simply ignore the error and wait for a new event.

If the user denies your applications use of the location service, this method reports a kCLErrorDenied error. Upon receiving such an error, you should stop the location service.

Update(newLocation as CLLocationMBS, oldLocation as CLLocationMBS)

event from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Tells you that a new location value is available.

Notes:

newLocation: The new location data.

oldLocation: The location data from the previous update. If this is the first update event delivered by this location manager, this parameter is nil.

By the time this event is called, the new location data is also available directly from the CLLocationManagerMBS object. The newLocation parameter may contain the data that was cached from a previous usage of the location service. You can use the timestamp property of the location object to determine how recent the location data is.

2.1.4 Constants

kCLErrorDenied = 1

const from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the error codes reported by the location manager error event.

Notes: Access to the location service was denied by the user.

kCLErrorLocationUnknown = 0

const from class CLLocationManagerMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the error codes reported by the location manager error event.

Notes: The location manager was unable to obtain a location value right now.

2.2 class CLLocationMBS

class CLLocationMBS

class, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: A CLLocationMBS object represents the location data generated by a CLLocationManagerMBS object.

Example:

```
dim c as new CLLocationMBS(50,7)
```

```
MsgBox c.description
```

```
// example output: <+50.00000000, +7.00000000>+/- 0.00m (speed -1.00 mps / course -1.00) @ 2009-08-28 23:59:58 +0200
```

Notes:

This object incorporates the geographical coordinates and altitude of the devices location along with values indicating the accuracy of the measurements and when those measurements were made. On some devices, this class also reports information about the speed and heading in which the device is moving.

Typically, you use a CLLocationManagerMBS object to create instances of this class based on the last known location of the users device. You can create instances yourself, however, if you want to cache custom location data or get the distance between two different coordinate points.

This class is designed to be used as is and should not be subclassed.

Requires Mac OS X 10.6

2.2.1 Methods

altitude as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The altitude in meters.

Example:

```
dim c as new CLLocationMBS(1,2,3,4,5,nil)
```

```
MsgBox str(c.altitude)
```

Notes: Positive values indicate altitudes above sea level. Negative values indicate altitudes below sea level.

Constructor(latitude as double, longitude as double)

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Initializes and returns a location object with the specified latitude and longitude.

Example:

```
dim c as new CLLocationMBS(50,7)
```

```
MsgBox c.description
```

```
// example output: <+50.00000000, +7.00000000>+/- 0.00m (speed -1.00 mps / course -1.00) @ 2009-08-28 23:59:58 +0200
```

Notes:

latitude: The latitude of the coordinate point.

longitude: The longitude of the coordinate point.

Typically, you acquire location objects from the location service, but you can use this method to create new

location objects for other uses in your application. When using this method, the other properties of the object are initialized to appropriate values. In particular, the altitude and horizontalAccuracy properties are set to 0, the verticalAccuracy property is set to -1 to indicate that the altitude value is invalid, and the timestamp property is set to the time at which the instance was initialized.

Requires Mac OS X 10.6

See also:

- 2.2.1 Constructor(latitude as double, longitude as double, altitude as double, horizontalAccuracy as double, verticalAccuracy as double, timestamp as date) 19

Constructor(latitude as double, longitude as double, altitude as double, horizontalAccuracy as double, verticalAccuracy as double, timestamp as date)

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Initializes and returns a location object with the specified coordinate information.

Example:

```
dim c as new CLLocationMBS(1,2,3,4,5,nil)
```

```
MsgBox c.description
```

Notes:

coordinate: A coordinate structure containing the latitude and longitude values.

altitude: The altitude value for the location.

horizontalAccuracy: The accuracy of the coordinate value. Specifying a negative number indicates that the coordinate value is invalid.

verticalAccuracy: The accuracy of the altitude value. Specifying a negative number indicates that the altitude value is invalid.

timestamp: The time to associate with the location object. Typically, you would set this to the current time.

Typically, you acquire location objects from the location service, but you can use this method to create new location objects for other uses in your application.

See also:

- 2.2.1 Constructor(latitude as double, longitude as double) 18

copy as CLLocationMBS

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Creates a copy of the object.

Example:

```
dim c as new CLLocationMBS(5,6)
```

```
dim n as CLLocationMBS = c.copy
```

```
MsgBox n.description
```

Notes: Internally a new CLLocation object is created with a copy of the data.

course as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The direction in which the device is travelling.

Example:

```
dim c as CLLocationManagerMBS // your global instance
```

```
dim l as CLLocationMBS = c.location
```

```
if l<>Nil then
  MsgBox str(l.course)
end if
```

Notes: Course values are measured in degrees starting at due north and continuing clockwise around the compass. Thus, north is 0 degrees, east is 90 degrees, south is 180 degrees, and so on. Course values may not be available on all devices. A negative value indicates that the direction is invalid.

description as string

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the location data in a formatted text string.

Example:

```
dim c as new CLLocationMBS(50.439722, 7.40167)
```

```
MsgBox C.description
```

```
// shows for example:
```

```
// <+50.43972200, +7.40167000>+/- 0.00m (speed -1.00 mps / course -1.00) @ 2009-08-29 14:22:39 +0200
```

Notes:

A string of the form <<latitude>, <longitude>>+/- <accuracy>m (speed <speed>kph / heading <heading>) @ <date-time>, where <latitude>, <longitude>, <accuracy>, <speed>, and <heading>are formatted floating point numbers and <date-time>is a formatted date string that includes date, time, and time zone information.

The returned string is intended for display purposes only.

distanceFromLocation(location as CLLocationMBS) as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the distance (in meters) between the two locations.

Example:

```
// Nickenich 50 24' 48" N, 7 19' 47" E
```

```
// Andernach 50 26' 23" N, 7 24' 6" E
```

```
dim c1 as new CLLocationMBS(50.439722, 7.40167) // Andernach
```

```
dim c2 as new CLLocationMBS(50.413333, 7.32972) // Nickenich
```

```
MsgBox str(c1.distanceFromLocation(c2))+ " meter"
```

Notes: This method measures the distance between the two locations by tracing a line between them that follows the curvature of the Earth. The resulting arc is a smooth curve and does not take into account specific altitude changes between the two locations.

horizontalAccuracy as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The radius of uncertainty for the location, measured in meters.

Example:

```
dim c as CLLocationManagerMBS // your global instance

dim l as CLLocationMBS = c.location

if l<>Nil then
  MsgBox str(l.horizontalAccuracy)
end if
```

Notes: The coordinates latitude and longitude identify the center of the circle and this value indicates the radius of that circle. A negative value indicates that the coordinates latitude and longitude are invalid.

latitude as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The geographical coordinate information.

Example:

```
dim c as new CLLocationMBS(50.413333, 7.32972)

MsgBox str(C.latitude) // shows 50.413333
```

longitude as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The geographical coordinate information.

Example:

```
dim c as new CLLocationMBS(50.413333, 7.32972)
```

```
MsgBox str(C.longitude) // shows 7.32972
```

speed as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The instantaneous speed of the device in meters per second.

Example:

```
dim c as CLLocationManagerMBS // your global instance
```

```
dim l as CLLocationMBS = c.location
```

```
if l<>Nil then
MsgBox str(l.speed)
end if
```

Notes: This value reflects the instantaneous speed of the device in the direction of its current heading. A negative value indicates an invalid speed. Because the actual speed can change many times between the delivery of subsequent location events, you should use this property for informational purposes only.

timestamp as date

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The time at which this location was determined.

Example:

```
dim c as CLLocationManagerMBS // your global instance

dim l as CLLocationMBS = c.location

if l<>Nil then
  MsgBox l.timestamp.SQLiteDateTime
end if
```

verticalAccuracy as double

method from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The accuracy of the altitude value in meters.

Example:

```
dim c as CLLocationManagerMBS // your global instance

dim l as CLLocationMBS = c.location

if l<>Nil then
  MsgBox str(l.verticalAccuracy)
end if
```

Notes: The value in the altitude property could be plus or minus the value indicated by this property. A negative value indicates that the altitude value is invalid.

2.2.2 Properties

Handle as Integer

property from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The internal reference to the CLLocation object.

Example:

```
dim c as CLLocationManagerMBS // your global instance

dim l as CLLocationMBS = c.location

if l<>Nil then
  MsgBox str(l.handle)
end if
```

Notes: (Read and Write property)

2.2.3 Constants

kCLDistanceFilterNone = -1.0

const from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: This constant indicates the minimum distance required before an event is generated.

Notes: All movements are reported.

kCLLocationAccuracyBest = -1.0

const from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: A constant value you can use to specify the accuracy of a location.

Example:

```
dim c as new CLLocationManagerMBS

c.desiredAccuracy=CLLocationMBS.kCLLocationAccuracyBest
```

Notes: Use the best possible accuracy.

kCLLocationAccuracyHundredMeters = 100.0

const from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: A constant value you can use to specify the accuracy of a location.

Example:

```
dim c as new CLLocationManagerMBS
c.desiredAccuracy=CLLocationMBS.kCLLocationAccuracyHundredMeters
```

Notes: Accurate to within one hundred meters.

kCLLocationAccuracyKilometer = 1000.0

const from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: A constant value you can use to specify the accuracy of a location.

Example:

```
dim c as new CLLocationManagerMBS
c.desiredAccuracy=CLLocationMBS.kCLLocationAccuracyKilometer
```

Notes: Accurate to the nearest kilometer.

kCLLocationAccuracyNearestTenMeters = 10.0

const from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: A constant value you can use to specify the accuracy of a location.

Example:

```
dim c as new CLLocationManagerMBS
```

```
c.desiredAccuracy=CLLocationMBS.kCLLocationAccuracyNearestTenMeters
```

Notes: Accurate to within ten meters of the desired target.

kCLLocationAccuracyThreeKilometers = 3000.0

const from class CLLocationMBS, CoreLocation, MBS REALbasic SnowLeopard Plugin (CoreLocation), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: A constant value you can use to specify the accuracy of a location.

Example:

```
dim c as new CLLocationManagerMBS
```

```
c.desiredAccuracy=CLLocationMBS.kCLLocationAccuracyThreeKilometers
```

Notes: Accurate to the nearest three kilometers.

Chapter 3

OpenCL

3.1 module OpenCLMBS

module OpenCLMBS

module from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The module for OpenCL.

Notes:

from wikipedia:

OpenCL (Open Computing Language) is a framework for writing programs that execute across heterogeneous platforms consisting of CPUs, GPUs, and other processors. OpenCL includes a language (based on C99) for writing kernels (functions that execute on OpenCL devices), plus APIs that are used to define and then control the platforms. OpenCL provides parallel computing using task-based and data-based parallelism.

3.1.1 Methods

GetDeviceIDs(PlatformID as Int64, types as Int64) as Int64()

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the device IDs for the given platform.

Notes: Sets the lasterror variable.

GetDeviceInfoInt64(DeviceID as Int64, ValueID as Int64) as Int64

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Queries the value for the given device value.

Notes: Sets the lasterror variable.

GetDeviceInfoSize(DeviceID as Int64, ValueID as Int64) as integer

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Queries the size of the value of the device.

Notes: Sets the lasterror variable.

GetDeviceInfoString(DeviceID as Int64, ValueID as Int64) as string

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the string value of the device value.

Notes: Sets the lasterror variable.

GetPlatformCount as Int64

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the number of platforms.

Notes:

Returns 0 on any error.

Sets the lasterror variable.

GetPlatformIDs as Int64()

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the platform IDs.

Notes:

Every computer can have several platforms. Each platform can have several devices. And each device can have several computing units.

Sets the lasterror variable.

GetPlatformInfoSize(PlatformID as Int64, ValueID as Int64) as integer

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Queries the size of the given platform value.

Notes: Sets the lasterror variable.

GetPlatformInfoString(PlatformID as Int64, ValueID as Int64) as string

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the string of the given value.

Notes: Sets the lasterror variable.

isAvailable as boolean

method from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Whether the OpenCL framework is available.

Notes: Returns true on Mac OS X 10.6 on an intel CPU.

3.1.2 Constants

kBuildProgramFailure = -11

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kCompilerNotAvailable = -3

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kDeviceAddressBits = & H100d

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceAvailable = & H1027

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceCompilerAvailable = & H1028

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceEndianLittle = & H1026

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceErrorCorrectionSupport = & H1024

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceExecutionCapabilities = & H1029

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceExtensions = & H1030

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceGlobalMemCachelineSize = & H101d

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceGlobalMemCacheSize = & H101e

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceGlobalMemCacheType = & H101c

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceGlobalMemSize = & H101f

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceImage2dMaxHeight = & H1012

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceImage2dMaxWidth = & H1011

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceImage3dMaxDepth = & H1015

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceImage3dMaxHeight = & H1014

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceImage3dMaxWidth = & H1013

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceImageSupport = & H1016

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceLocalMemSize = & H1023

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceLocalMemType = & H1022

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxClockFrequency = & H100c

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxComputeUnits = & H1002

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxConstantArgs = & H1021

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxConstantBufferSize = & H1020

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxMemAllocSize = & H1010

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxParameterSize = & H1017

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxReadImageArgs = & H100e

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxSamplers = & H1018

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxWorkGroupSize = & H1004

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxWorkItemDimensions = & H1003

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxWorkItemSizes = & H1005

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMaxWriteImageArgs = & H100f

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMemBaseAddrAlign = & H1019

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceMinDataTypeAlignSize = & H101a

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceName = & H102b

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceNotAvailable = -2

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kDeviceNotFound = -1

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kDevicePlatform = & H1031

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDevicePreferredVectorWidthChar = & H1006

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDevicePreferredVectorWidthDouble = & H100b

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDevicePreferredVectorWidthFloat = & H100a

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDevicePreferredVectorWidthInt = & H1008

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDevicePreferredVectorWidthLong = & H1009

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDevicePreferredVectorWidthShort = & H1007

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceProfile = & H102e

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceProfilingTimerResolution = & H1025

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceQueueProperties = & H102a

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceSingleFpConfig = & H101b

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceType = & H1000

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceTypeAccelerator = 8

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the device type constants.

kDeviceTypeAll = & Hfffffff

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the device type constants.

Notes: This is the bitmask to catch all possible types.

kDeviceTypeCpu = 2

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the device type constants.

kDeviceTypeDefault = 1

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the device type constants.

kDeviceTypeGpu = 4

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the device type constants.

kDeviceVendor = & H102c

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceVendorId = & H1001

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDeviceVersion = & H102f

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kDriverVersion = & H102d

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device values.

kExecKernel = 1

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device exec capabilities.

kExecNativeKernel = 2

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for device exec capabilities.

kImageFormatMismatch = -9

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kImageFormatNotSupported = -10

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidArgIndex = -49

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidArgSize = -51

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidArgValue = -50

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidBinary = -42

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidBufferSize = -61

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidBuildOptions = -43

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidCommandQueue = -36

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidContext = -34

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidDevice = -33

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidDeviceType = -31

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidEvent = -58

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidEventWaitList = -57

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidGlobalOffset = -56

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidGLObject = -60

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidHostPtr = -37

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidImageFormatDescriptor = -39

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidImageSize = -40

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidKernel = -48

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidKernelArgs = -52

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidKernelDefinition = -47

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidKernelName = -46

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidMemObject = -38

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidMipLevel = -62

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidOperation = -59

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidPlatform = -32

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidProgram = -44

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidProgramExecutable = -45

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidQueueProperties = -35

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidSampler = -41

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidValue = -30

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidWorkDimension = -53

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidWorkGroupSize = -54

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kInvalidWorkItemSize = -55

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kMapFailure = -12

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kMemCopyOverlap = -8

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kMemObjectAllocationFailure = -4

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kOutOfHostMemory = -6

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kOutOfResources = -5

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kPlatformExtensions = & H0904

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for platform values.

Example:

```
dim Platforms(-1) as Int64 = OpenCLMBS.GetPlatformIDs
// now query for first platform:
dim s as string = OpenCLMBS.GetPlatformInfoString(Platforms(0),OpenCLMBS.kPlatformExtensions)
// and show value:
MsgBox s
```

kPlatformName = & H0902

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for platform values.

Example:

```
// get platform list
dim Platforms(-1) as Int64 = OpenCLMBS.GetPlatformIDs
// now query for first platform:
dim s as string = OpenCLMBS.GetPlatformInfoString(Platforms(0),OpenCLMBS.kPlatformName)
// and show value:
MsgBox s
```

kPlatformProfile = & H0900

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for platform values.

Example:

```
// get platform list
dim Platforms(-1) as Int64 = OpenCLMBS.GetPlatformIDs
// now query for first platform:
dim s as string = OpenCLMBS.GetPlatformInfoString(Platforms(0),OpenCLMBS.kPlatformProfile)
// and show value:
MsgBox s
```

kPlatformVendor = & H0903

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for platform values.

Example:

```
// get platform list
dim Platforms(-1) as Int64 = OpenCLMBS.GetPlatformIDs
// now query for first platform:
dim s as string = OpenCLMBS.GetPlatformInfoString(Platforms(0),OpenCLMBS.kPlatformVendor)
// and show value:
MsgBox s
```

kPlatformVersion = & H0901

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for platform values.

Example:

```
// get platform list
dim Platforms(-1) as Int64 = OpenCLMBS.GetPlatformIDs
// now query for first platform:
dim s as string = OpenCLMBS.GetPlatformInfoString(Platforms(0),OpenCLMBS.kPlatformVersion)
// and show value:
MsgBox s
```

kProfilingInfoNotAvailable = -7

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kSuccess = 0

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants for OpenCL errors.

kVersion10 = 1

const from class OpenCLMBS, OpenCL, MBS REALbasic SnowLeopard Plugin (OpenCL), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The constant for the OpenCL version.

Chapter 4

Process

4.1 class NSRunningApplicationMBS

class NSRunningApplicationMBS

class, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: NSRunningApplication is a class to manipulate and provide information for a single instance of an application.

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox n.localizedName
```

Notes:

Only user applications are tracked; this does not provide information about every process on the system. Some properties of an application are fixed, such as the bundle identifier. Other properties may vary over time, such as whether the app is hidden. Properties that vary can be observed with key-value observing, in which case the description comment for the method notes this capability.

Properties that vary over time are inherently race-prone. For example, a hidden app may unhide itself at any time. To ameliorate this, properties persist until the next turn of the main run loop in a common mode. For example, if you repeatedly poll an unhidden app for its hidden property without allowing the run loop

to run, it will continue to return NO, even if the app hides, until the next turn of the run loop. NSRunningApplication is thread safe, in that its properties are returned atomically. However, it is still subject to the main run loop policy described above. If you access an instance of NSRunningApplication from a background thread, be aware that its time-varying properties may change from under you as the main run loop runs (or not).

An NSRunningApplication instance remains valid after the application exits. However, most properties lose their significance, and some properties may not be available on a terminated application.

Requires Mac OS X 10.6.

4.1.1 Methods

activateWithOptions(options as integer) as boolean

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Attempts to activate the application using the specified options.

Notes:

options: The options to use when activating the application. See NSApplicationActivationOptions for the possible values.

Returns true if the application was activated successfully, otherwise false.

This method will return false if the application has quit, or is not a type of application than can be activated.

Available in Mac OS X v10.6 and later.

activationPolicy as integer

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the activation policy of the application. (read-only)

Notes:

The value returned by this property is usually fixed, but it may change through a call to `activateWithOptions`.

Available in Mac OS X v10.6 and later.

active as boolean

method from class `NSRunningApplicationMBS`, `Process`, `MBS REALbasic SnowLeopard Plugin (NSRunningApplication)`, Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates whether the application is currently frontmost. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox str(n.active)
```

Notes: Available in Mac OS X v10.6 and later.

bundleIdentifier as string

method from class `NSRunningApplicationMBS`, `Process`, `MBS REALbasic SnowLeopard Plugin (NSRunningApplication)`, Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the `CFBundleIdentifier` of the application. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox n.bundleIdentifier
```

Notes: The value of this property will be `nil` if the application does not have an `Info.plist`.

bundleURL as string

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the URL to the application's bundle. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox n.bundleURL
```

Notes: Available in Mac OS X v10.6 and later.

Constructor

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The constructor.

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox n.localizedName
```

Notes:

Initializes the object with the current application.
Available in Mac OS X v10.6 and later.

currentApplication as NSRunningApplicationMBS

shared method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns an NSRunningApplication representing this application.

Example:

```
dim n as NSRunningApplicationMBS = NSRunningApplicationMBS.currentApplication
```

```
MsgBox n.localizedName
```

Notes: Available in Mac OS X v10.6 and later.

executableArchitecture as integer

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the URL to the application's executable. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox str(n.executableArchitecture) // shows 7
```

Notes: Available in Mac OS X v10.6 and later.

executableURL as string

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the URL to the application's executable. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox n.executableURL
```

Notes: Available in Mac OS X v10.6 and later.

finishedLaunching as boolean

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates whether the receivers process has finished launching, (read-only)

Notes:

The value of this property corresponds to the running application having received an NSApplicationDidFinishLaunchingNotification notification internally. Some applications do not post this notification (applications that do not rely on NSApplication) and so are never reported as finished launching.

Available in Mac OS X v10.6 and later.

forceTerminate as boolean

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Attempts to force the receiver to quit.

Notes:

Returns true if the application successfully terminated, otherwise false.

This method will return false if the application is no longer running when the forceTerminate message is sent to the receiver.

This method may return before the receiver exits; you should observe the `terminated` property to determine when the application terminates.

Available in Mac OS X v10.6 and later.

hidden as boolean

method from class `NSRunningApplicationMBS`, `Process`, `MBS REALbasic SnowLeopard Plugin (NSRunningApplication)`, Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates whether the application is currently hidden. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox str(n.hidden)
```

Notes: Available in Mac OS X v10.6 and later.

hide as boolean

method from class `NSRunningApplicationMBS`, `Process`, `MBS REALbasic SnowLeopard Plugin (NSRunningApplication)`, Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Attempts to hide or the application.

Example:

```
dim n as NSRunningApplicationMBS = NSRunningApplicationMBS.currentApplication
```

```
MsgBox str(n.hide) // hide me
```

Notes:

The property of this value will be NO if the application has already quit, or if of a type that is unable to be hidden.

Available in Mac OS X v10.6 and later.

icon as NSImageMBS

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the icon for the receivers application. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
dim i as NSImageMBS = n.icon
```

```
// without this call the size is 32x32 Pixel  
i.setSize 512,512
```

```
Backdrop = i.CopyPictureWithMask
```

Notes: Available in Mac OS X v10.6 and later.

launchDate as date

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the date when the application was launched. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox n.launchDate.ShortTime
```

Notes:

This property is not available for all applications. Specifically, it is not available for applications that were launched not launched by LaunchServices.
Available in Mac OS X v10.6 and later.

localizedName as string

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the localized name of the application. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox n.localizedName
```

Notes:

The value of this property is dependent on the current localization of the application and is suitable for presentation to the user.
Available in Mac OS X v10.6 and later.

processIdentifier as integer

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates the process identifier (pid) of the application. (read-only)

Example:

```
dim n as new NSRunningApplicationMBS
```

```
MsgBox str(n.processIdentifier)
```

Notes:

Not all applications have a pid. Applications without a return a value of -1.

Do not rely on this for comparing processes, instead compare `NSRunningApplication` instances using `isEqual:`.

Available in Mac OS X v10.6 and later.

runningApplications as NSRunningApplicationMBS()

shared method from class `NSRunningApplicationMBS`, Process, MBS REALbasic SnowLeopard Plugin (`NSRunningApplication`), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns an array of `NSRunningApplication` representing the running applications.

Example:

```
dim n(-1) as NSRunningApplicationMBS = NSRunningApplicationMBS.runningApplications
```

```
dim s(-1) as string
```

```
for each r as NSRunningApplicationMBS in n
```

```
  s.Append r.localizedName
```

```
next
```

```
MsgBox Join(s,EndOfLine)
```

Notes:

Returns an array of `NSRunningApplication` instances.

The order of the array is unspecified, but it is stable, meaning that the relative order of particular applications will not change across multiple calls to `runningApplications`. See `NSRunningApplication` Class Reference for more information on `NSRunningApplication`.

Similar to the `NSRunningApplication` classes's properties, this property will only change when the main run loop is run in a common mode. Instead of polling, use key-value observing to be notified of changes to this array property.

This property is thread safe, in that it may be called from background threads and the result is returned atomically.

runningApplicationsWithBundleIdentifier(bundleID as string) as NSRunningApplicationMBS()

shared method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns an array of currently running applications with the specified bundle identifier.

Example:

```
dim n(-1) as NSRunningApplicationMBS = NSRunningApplicationMBS.runningApplicationsWithBundleIdentifier("com.apple.iTunes")
if UBound(n)>=0 then
  MsgBox n(0).localizedName
else
  MsgBox "iTunes is not running?"
end if
```

Notes:

An array of NSRunningApplications, or an empty array if no applications match the bundle identifier. Available in Mac OS X v10.6 and later.

runningApplicationWithProcessIdentifier(pid as integer) as NSRunningApplicationMBS

shared method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Returns the running application with the given process identifier, or nil if no application has that pid.

Example:

```
dim n as NSRunningApplicationMBS
dim pid as integer

while n=nil
  pid=pid+1
  n=NSRunningApplicationMBS.runningApplicationWithProcessIdentifier(pid)
wend

MsgBox n.localizedName+" has PID "+str(pid)
```

Notes:

pid: The process identifier.

Returns an instance of `NSRunningApplication` for the specified pid, or nil if the application has no process identifier.

Applications that do not have PIDs cannot be returned from this method.
Available in Mac OS X v10.6 and later.

terminate as boolean

method from class `NSRunningApplicationMBS`, `Process`, `MBS REALbasic SnowLeopard Plugin (NSRunningApplication)`, Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Attempts to quit the receiver normally.

Notes:

Returns true if the application successfully terminated, otherwise false.

This method will return NO if the application is no longer running when the terminate message is sent to the receiver.

This method may return before the receiver exits; you should observe the terminated property to determine when the application terminates.

Available in Mac OS X v10.6 and later.

terminated as boolean

method from class `NSRunningApplicationMBS`, `Process`, `MBS REALbasic SnowLeopard Plugin (NSRunningApplication)`, Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Indicates that the receivers application has terminated. (read-only)

Notes:

The value of terminated is true if the receivers application has terminated, otherwise false.

This property is observable using key-value observing.

Available in Mac OS X v10.6 and later.

unhide as boolean

method from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Attempts to unhide or the application.

Notes:

Returns true if the application was successfully shown, otherwise false.

The property of this value will be false if the application has already quit, or if of a type that is unable to be hidden.

Available in Mac OS X v10.6 and later.

4.1.2 Properties

Handle as Integer

property from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The internal reference to the NSRunningApplication object.

Notes: (Read and Write property)

4.1.3 Constants

NSApplicationActivateAllWindows = 1

const from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the flag constants for activateWithOptions.

Notes:

By default, activation brings only the main and key windows forward. If you specify NSApplicationActivateAllWindows, all of the application's windows are brought forward. Available in Mac OS X v10.6 and later.

NSApplicationActivateIgnoringOtherApps = 2

const from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the flag constants for activateWithOptions.

Notes:

By default, activation deactivates the calling app (assuming it was active), and then the new app is activated only if there is no currently active application. This prevents the new app from stealing focus from the user, if the app is slow to activate and the user has switched to a different app in the interim. However, if you specify NSApplicationActivateIgnoringOtherApps, the application is activated regardless of the currently active app, potentially stealing focus from the user. You should rarely pass this flag because stealing key focus produces a very bad user experience. Available in Mac OS X v10.6 and later.

NSApplicationActivationPolicyAccessory = 1

const from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants used for following activation policies.

Notes:

The application does not appear in the Dock and does not have a menu bar, but it may be activated programmatically or by clicking on one of its windows. This corresponds to value of the LSUIElement key in the applications Info.plist being 1.

Available in Mac OS X v10.6 and later.

NSApplicationActivationPolicyProhibited = 2

const from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants used for following activation policies.

Notes:

The application does not appear in the Dock and may not create windows or be activated. This corresponds to the value of the LSBackgroundOnly key in the applications Info.plist being 1. This is also the default for unbundled executables that do not have Info.plist.

Available in Mac OS X v10.6 and later.

NSApplicationActivationPolicyRegular = 0

const from class NSRunningApplicationMBS, Process, MBS REALbasic SnowLeopard Plugin (NSRunningApplication), Plugin version: 9.7, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: One of the constants used for following activation policies.

Notes:

The application is an ordinary app that appears in the Dock and may have a user interface. This is the default for bundled apps, unless overridden in the Info.plist.

Available in Mac OS X v10.6 and later.

Chapter 5

QuickLook

5.1 class QLPreviewPanelMBS

class QLPreviewPanelMBS

class, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The QLPreviewPanel class implements the Preview Panel - a user interface object that displays the preview of a list of items.

Notes:

Every application only has one instance of QLPreviewPanel. You can not subclass QLPreviewPanel. Subclass of the NSPanelMBS class.

5.1.1 Methods

Available as boolean

shared method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Whether this panel is available.

Notes: Returns true on Snow Leopard.

Constructor

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The constructor for a new panel.

currentPreviewItem as folderitem

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The currently previewed item in the preview panel or nil if there is none.

currentPreviewItemIndex as integer

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The index of the currently previewed item in the preview panel or NSNotFound (-1) if there is none.

Notes: (Read and Write computed property)

enterFullScreenMode(screen as NSScreenMBS)

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Enters full screen mode.

Notes: If panel is not on-screen, the panel will go directly to full screen mode.

exitFullScreenMode

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Exits full screen mode.

inFullScreenMode as boolean

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: True if the panel is currently open and in full screen mode.

refreshCurrentPreviewItem

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Asks the Preview Panel to recompute the preview of the currently previewed item.

reloadData

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Asks the Preview Panel to reload its data from its data source.

Notes: This method does not refresh the visible item if it has not changed.

updateController

method from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Asks the Preview Panel to update its current controller.

Notes: The Preview Panel automatically updates its controller (by searching the responder chain) whenever the main or key window changes. Invoke `updateController` if the responder chain changes without explicit notice.

5.1.2 Properties

Handle as Integer

property from class `QLPreviewPanelMBS`, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The internal reference to the panel.

Notes: (Read and Write property)

5.1.3 Events

`handleEvent(e as NSEventMBS) as boolean`

event from class `QLPreviewPanelMBS`, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Invoked by the preview panel when it receives an event it doesn't handle.

Notes: Returns true if you did not handle this event.

`numberOfPreviewItems as integer`

event from class `QLPreviewPanelMBS`, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The event called to ask you for the number of items that the preview panel should preview.

previewItemAtIndex(index as integer) as folderitem

event from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: The event is called to ask you for the item with the given index.

sourceFrameOnScreenForPreviewItem(file as folderitem) as NSRectMBS

event from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Invoked when the preview panel opens or closes to provide a zoom effect.

Notes: Return a zero rect if there is no origin point, this will produce a fade of the panel. The coordinates are screen based.

transitionImageForPreviewItem(file as folderitem, byref contentRect as NSRectMBS) as NSImageMBS

event from class QLPreviewPanelMBS, QuickLook, MBS REALbasic SnowLeopard Plugin (QuickLookUI), Plugin version: 9.6, not console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

Function: Called to ask you for the transition image for a given preview item.

Notes:

Invoked when the preview panel opens or closes to provide a smooth transition when zooming.

contentRect: The rect within the image that actually represents the content of the document. For example, for icons the actual rect is generally smaller than the icon itself.

Return an image the panel will crossfade with when opening or closing. You can specify the actual "document" content rect in the image in contentRect.

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Chapter 7

List of all modules

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