LibSledLuaPlugin API Reference

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This document provides information about the API elements that are used in the successful implementation of LibSledLuaPlugin.



Note:

The specifications contained in this document are subject to change without prior notice.

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About the LibSledLuaPlugin APl Reference

This document provides information about the API elements that are used in implementing LibSledLuaPlugin. Use this document as a reference to the specifics of the API—such as its functions, data structures, type definitions, and defined symbols. This is a CAPI.

All of the information in this document is taken from comments in the header (*.h) files that are located in the components\sce_sled\src\sledluaplugin directory.

LuaPlugin Class

LuaPlugin is the class for the Lua plugin object that allows debugging Lua scripts during run time. To debug Lua scripts with SLED in an application, the application must create a LuaPlugin instance when it runs. The SLED GUI communicates with LuaPlugin instances.

What Is and Is Not Included in this Reference

This reference document contains information that is most useful for using components of the LibSledLuaPlugin API. Header files that contain information that is mostly for internal use, or platform-specific information that is defined elsewhere, are not included in this reference. If you are digging into the code in more depth, you can look in the header files for the additional information.

The following LibSledLuaPlugin header files in components\sce_sled\src\sledluaplugin are included in this reference document and contain the public API:

- params.h
- sledluaplugin.h

Most of the information from items tagged with the following identifiers is not included in this reference document:

- private
- protected

Look in the header files if you want more information about the private and protected class members, or any of the files that are not included in this reference.

Related Documentation

The following documentation, available on SHIP, contains useful information about using the SLED and Lua Toolset.

- Getting Started with SLED
- SLED User's Guide
- SLED Plugin Guide

Introduction

Library Summary

Library Contents

Item	Description
sce	sce namespace.
sce::Sled	SLED namespace.
sce::Sled::VarExcludeFlags	Namespace to scope variable exclude flags.
sce::Sled::LuaPlugin	Class describing a Lua plugin instance.
sce::Sled::LuaPluginConfig	LuaPlugin configuration parameters.

Defines

Define Summary

Define	Value	Description
SCE_LIBSLEDLUAPLUGIN_VER_MAJOR	5	Major version.
SCE_LIBSLEDLUAPLUGIN_VER_MINOR	1	Minor version.
SCE_LIBSLEDLUAPLUGIN_VER_REVISION	1	Revision version.
SCE_LIBSLEDLUAPLUGIN_VER_OTHER	0	Extra version number.
SCE_LIBSLEDLUAPLUGIN_ID	1	Id of LibSledLuaPlugin. The ID must be
		the same between this library and the
		Sled.Lua.dll.
SCE_LIBSLEDLUAPLUGIN_NAME	"SLED Lua	Plugin name.
	Plugin"	

sce namespace

Summary

sce

sce namespace.

Definition

namespace sce {}

Description

Namespace for sce classes and functions.

Inner Classes, Structures, and Namespaces

Item	Description
sce::Sled	SLED namespace.

sce::Sled namespace

Summary

sce::Sled

SLED namespace.

Definition

namespace Sled {}

Description

Namespace for <u>Sled</u> classes and functions.

Function Summary

Function	Description
debuggerAddLuaPlugin	Add LuaPlugin to SledDebugger.
luaPluginCreate	Create LuaPlugin instance.
luaPluginDebuggerBreak	Force breakpoint on specific lua_State and send data via
	TTY.
luaPluginDebuggerBreak	Force breakpoint on next lua_State that runs an
	instruction and send data via TTY.
<u>luaPluginGetId</u>	Get ID of plugin.
<u>luaPluginGetName</u>	Get name of plugin.
<u>luaPluginGetVarExcludeFlags</u>	Get current variable exclude flags.
luaPluginGetVersion	Get plugin version information.
luaPluginIsMemoryTracerRunning	Check whether memory tracer is running.
luaPluginIsProfilerRunning	Check whether profiler is running.
luaPluginMemoryTraceNotify	Provide way to report Lua allocations to library for tracking
	with memory tracer.
<u>luaPluginRegisterLuaState</u>	Register lua_State* with library.
luaPluginRequiredMemory	Calculate size in bytes required for <u>LuaPlugin</u> instance
	based on configuration structure.
<u>luaPluginResetMemoryTrace</u>	Reset internal memory trace list.
<u>luaPluginResetProfileInfo</u>	Reset internal profile information list.
<u>luaPluginSetVarExcludeFlags</u>	Set variable exclude flags.
<u>luaPluginShutdown</u>	Shut down <u>LuaPlugin</u> instance.
<u>luaPluginUnregisterLuaState</u>	Unregister lua_State* from library.

Inner Classes, Structures, and Namespaces

Item	Description
sce::Sled::LuaPlugin	Class describing a Lua plugin instance.
sce::Sled::LuaPluginConfig	LuaPlugin configuration parameters.
sce::Sled::VarExcludeFlags	Namespace to scope variable exclude flags.

Type Definitions

ChopCharsCallback

Typedef for chop characters callback function.

Definition

```
#include <params.h>
namespace sce {
   namespace Sled {
     typedef const char * (*ChopCharsCallback)(
          const char *pszFilePath
     );
   }
}
```

Arguments

pszFilePath Path to file

Return Values

None

Description

Typedef for a chop characters callback function.

EditAndContinueCallback

Typedef for an edit and continue callback function.

Definition

```
#include <params.h>
namespace sce {
   namespace Sled {
     typedef const char * (*EditAndContinueCallback)(
        const char *pszFilePath,
        void *pUserData
     );
   }
}
```

Arguments

pszFilePath The relative path of the file that needs to be reloadedpUserData Optional user-controlled userdata

Return Values

A const char* to the contents of the reloaded file

Description

Typedef for an edit and continue callback function. This function alerts the user that they need to load a specific file synchronously, because LibSledLuaPlugin needs to operate on the contents.

<u>EditAndContinueCallback()</u> returns a const char* to the contents of that file to LibSledLuaPlugin for processing.

See Also

EditAndContinueFinishCallback

EditAndContinueFinishCallback

Typedef for edit and continue callback function.

Definition

```
#include <params.h>
namespace sce {
   namespace Sled {
     typedef void (*EditAndContinueFinishCallback)(
        const char *pszFilePath,
        void *pUserData
     );
   }
}
```

Arguments

pszFilePath The relative path of the file that needs to be reloadedpUserData Optional user-controlled userdata

Return Values

None

Description

Typedef for an edit and continue callback function. This function synchronously loads the file. Call this function after regular edit and continue callback processing has finished so that memory can be freed, if necessary.

See Also

EditAndContinueCallback

UserDataCallback

Typedef for user data callback function.

Definition

```
#include <params.h>
namespace sce {
   namespace Sled {
     typedef const char * (*UserDataCallback)(
          void *pLuaUserData,
          void *pUserData
     );
   }
}
```

Arguments

```
pLuaUserData Lua userdatapUserData Optional user-controlled userdata
```

Return Values

None

Description

String describing the Lua user data that is sent back to SLED. This string shows up in the "Value" column of the respective [Globals/Locals/Upvalues/etc.] window.

UserDataFinishCallback

Typedef for user data callback function.

Definition

```
#include <params.h>
namespace sce {
   namespace Sled {
     typedef void (*UserDataFinishCallback)(
         void *pLuaUserData,
         void *pUserData
     );
   }
}
```

Arguments

```
pLuaUserData Lua user datapUserData Optional user-controlled userdata
```

Return Values

None

Description

Typedef for a user data callback function. Call this function after regular user data callback processing has finished so that memory can be freed, if necessary.

Functions

debuggerAddLuaPlugin

Add LuaPlugin to SledDebugger.

Definition

Calling Conditions

Not multithread safe.

Arguments

```
debugger SledDebugger to use plugin LuaPlugin to use
```

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null debugger or plugin

Description

Add a <u>LuaPlugin</u> to the SledDebugger. It's a helper method, because <u>LuaPlugin</u> is an incomplete type and the SledDebugger debuggerAddPlugin() method is expecting a SledDebuggerPlugin instance.

See Also

luaPluginCreate

IuaPluginCreate

Create LuaPlugin instance.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
     int32_t luaPluginCreate(
         const LuaPluginConfig *config,
         void *location,
         LuaPlugin **outLuaPlugin
     );
   }
}
```

Calling Conditions

Not multithread safe.

Arguments

config A configuration structure that details the settings to use

location The location in memory in which to place the LuaPlugin instance. It must be as

big as the value returned by luaPluginRequiredMemory().

outLuaPlugin The LuaPlugin instance that is created

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null configuration structure
SCE_SLED_ERROR_INVALIDCONFIGURATION	Invalid value in the configuration structure

Description

Create a LuaPlugin instance.

See Also

 $\verb|luaPluginRequiredMemory|, \verb|luaPluginShutdown|, \verb|debuggerAddLuaPlugin|$

IuaPluginDebuggerBreak

Force breakpoint on specific lua_State and send data via TTY.

Definition

Calling Conditions

Not multithread safe.

Arguments

```
plugin LuaPlugin to use
luaState Pointer to a lua_State
pszText Data to send via TTY
```

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin

Description

Force a breakpoint on a specific lua_State and send data via TTY.

IuaPluginDebuggerBreak

Force breakpoint on next lua_State that runs an instruction and send data via TTY.

Definition

Calling Conditions

Not multithread safe.

Arguments

```
plugin    LuaPlugin to use
pszText    Data to send via TTY
```

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin

Description

Force a breakpoint on the next lua_State that runs an instruction and send data via TTY.

See Also

luaPluginGetVarExcludeFlags, luaPluginGetVarExcludeFlags

luaPluginGetId

Get ID of plugin.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
     int32_t luaPluginGetId(
          const LuaPlugin *plugin,
          uint16_t *outId
     );
   }
}
```

Calling Conditions

Multithread safe.

Arguments

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin or outId

Description

Get ID of the plugin. The ID must be unique across all other language plugins. The ID 0 (zero) is reserved for the SledDebugger class.

See Also

luaPluginGetName, luaPluginGetVersion

IuaPluginGetName

Get name of plugin.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
     int32_t luaPluginGetName(
          const LuaPlugin *plugin,
          const char **outName
     );
   }
}
```

Calling Conditions

Multithread safe.

Arguments

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin or outName

Description

Get the name of the plugin.

See Also

luaPluginGetId, luaPluginGetVersion

luaPluginGetVarExcludeFlags

Get current variable exclude flags.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
     int32_t luaPluginGetVarExcludeFlags(
          const LuaPlugin *plugin,
          int32_t *outFlags
     );
   }
}
```

Calling Conditions

Not multithread safe.

Arguments

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin or outFlags

Description

Get the current variable exclude flags.

See Also

luaPluginSetVarExcludeFlags, luaPluginDebuggerBreak

IuaPluginGetVersion

Get plugin version information.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
    int32_t luaPluginGetVersion(
        const LuaPlugin *plugin,
        Version *outVersion
   );
   }
}
```

Calling Conditions

Multithread safe.

Arguments

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin or outVersion

Description

Get the plugin version information.

See Also

luaPluginGetId, luaPluginGetName

IuaPluginIsMemoryTracerRunning

Check whether memory tracer is running.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
     int32_t luaPluginIsMemoryTracerRunning(
          const LuaPlugin *plugin,
          bool *outResult
     );
   }
}
```

Calling Conditions

Not multithread safe.

Arguments

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin or outResult

Description

Check whether or not the memory tracer is running.

See Also

luaPluginIsProfilerRunning, luaPluginResetMemoryTrace, luaPluginMemoryTraceNotify

IuaPluginIsProfilerRunning

Check whether profiler is running.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
     int32_t luaPluginIsProfilerRunning(
          const LuaPlugin *plugin,
          bool *outResult
     );
   }
}
```

Calling Conditions

Not multithread safe.

Arguments

```
plugin
outResult True if the profiler is running; false if it is not running
```

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin or outResult

Description

Determine whether or not the profiler is running.

See Also

luaPluginIsMemoryTracerRunning, luaPluginResetProfileInfo

IuaPluginMemoryTraceNotify

Provide way to report Lua allocations to library for tracking with memory tracer.

Definition

Calling Conditions

Not multithread safe.

Arguments

```
pluginLuaPluginto useuserDataA pointer to user data (not currently used for anything)oldPtrA pointer to old memory being deallocatednewPtrA pointer to new memory being allocatedoldSizeOld memory sizenewSizeNew memory sizeoutResultTrue if information is logged; false if memory tracer is not running
```

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin or outResult

Description

Provide a way to report Lua allocations to the library for tracking using the memory tracer. Call this function from the allocator that is making all the Lua allocations, deallocations, and reallocations.

See Also

 $\verb|luaPluginIsMemoryTracerRunning|, \verb|luaPluginResetMemoryTrace||$

IuaPluginRegisterLuaState

Register lua_State* with library.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace <a>Sled</a> {
       int32_t luaPluginRegisterLuaState(
           <u>LuaPlugin</u> *plugin,
           lua_State *luaState,
           const char *luaStateName = 0
       );
   }
}
```

Calling Conditions

Not multithread safe.

Arguments

plugin LuaPlugin to use Pointer to a lua_State luaState

luaStateName A name for the lua_State. This name shows up on the lua_State GUI in

SLED to help easily identify the lua_State.

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin
SCE_SLED_LUA_ERROR_NODEBUGGERINSTANCE	No debugger instance (not added to a
	SledDebugger instance)
SCE_SLED_LUA_ERROR_INVALIDLUASTATE	lua_State is null
SCE_SLED_LUA_ERROR_DUPLICATELUASTATE	lua_State is already registered
SCE_SLED_LUA_ERROR_OVERLUASTATELIMIT	No space for lua_State

Description

Register a lua_State* with the library. Lua states must be registered with the library if they are to be debugged.

See Also

luaPluginUnregisterLuaState

IuaPluginRequiredMemory

Calculate size in bytes required for LuaPlugin instance based on configuration structure.

Definition

```
#include <sledluaplugin.h>
namespace sce {
   namespace Sled {
     int32_t luaPluginRequiredMemory(
        const LuaPluginConfig *config,
        std::size_t *outRequiredMemory
     );
   }
}
```

Calling Conditions

Not multithread safe.

Arguments

config The configuration structure that details the settings to use outRequiredMemory The amount of memory that is needed for the LuaPlugin instance

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null configuration structure
SCE_SLED_ERROR_INVALIDCONFIGURATION	Invalid value in the configuration structure

Description

Calculate the size in bytes required for a <u>LuaPlugin</u> instance based on a configuration structure.

See Also

luaPluginCreate

IuaPluginResetMemoryTrace

Reset internal memory trace list.

Definition

Calling Conditions

Not multithread safe.

Arguments

plugin LuaPlugin to use

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin

Description

Reset the internal memory trace list.

See Also

 $\frac{\texttt{luaPluginIsMemoryTracerRunning,}}{\texttt{luaPluginResetProfileInfo,}}$

IuaPluginResetProfileInfo

Reset internal profile information list.

Definition

Calling Conditions

Not multithread safe.

Arguments

plugin LuaPlugin to use

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin

Description

Reset the internal profile information list.

See Also

luaPluginIsProfilerRunning, luaPluginResetMemoryTrace

IuaPluginSetVarExcludeFlags

Set variable exclude flags.

Definition

Calling Conditions

Not multithread safe.

Arguments

plugin flags

LuaPlugin to use

An OR'd set of variable groups to exclude from processing and sending when hitting a breakpoint

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin

Description

Set the variable groups to exclude from processing and sending when hitting a breakpoint.

See Also

luaPluginGetVarExcludeFlags, luaPluginDebuggerBreak

IuaPluginShutdown

Shut down LuaPlugin instance.

Definition

Calling Conditions

Not multithread safe.

Arguments

plugin The LuaPlugin instance to shut down

Return Values

Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin

Description

Shut down a LuaPlugin instance.

See Also

luaPluginCreate

IuaPluginUnregisterLuaState

Unregister lua_State* from library.

Definition

Calling Conditions

Not multithread safe.

Arguments

```
plugin
luaState
LuaPlugin to use
Pointer to a lua_State
```

Return Values

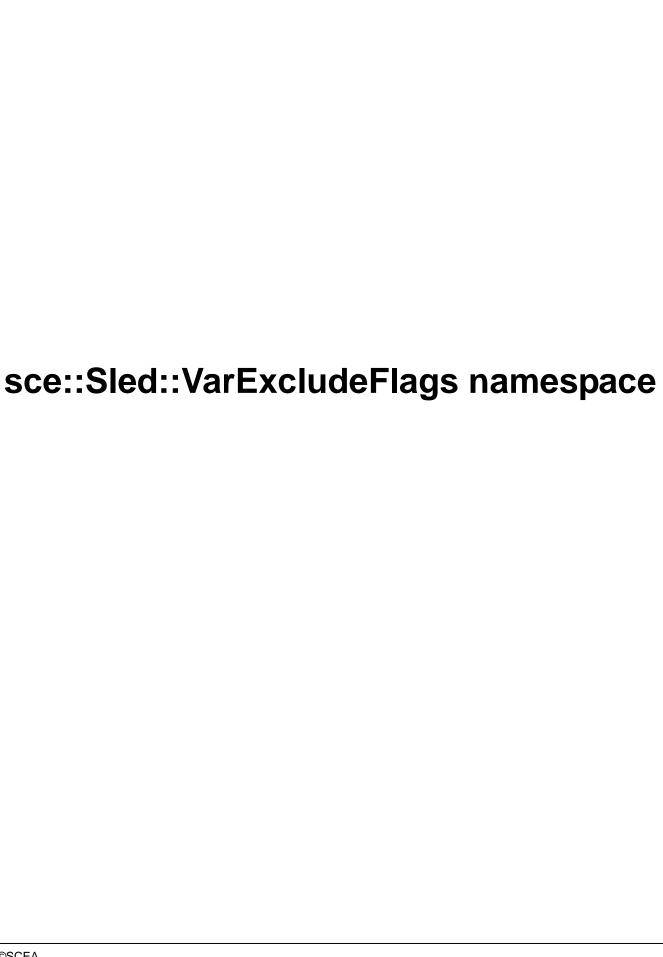
Value	Description
SCE_SLED_ERROR_OK	Success
SCE_SLED_ERROR_NULLPARAMETER	Null plugin
SCE_SLED_LUA_ERROR_NODEBUGGERINSTANCE	No debugger instance (not added to a
	SledDebugger instance)
SCE_SLED_LUA_ERROR_INVALIDLUASTATE	lua_State is null
SCE_SLED_LUA_ERROR_LUASTATENOTFOUND	lua_State is not registered

Description

Unregister a lua_State* from the library. Lua states must be registered with the library if they are to be debugged.

See Also

luaPluginRegisterLuaState



Summary

sce::Sled::VarExcludeFlags

Namespace to scope variable exclude flags.

Definition

namespace VarExcludeFlags {}

Description

Namespace to scope variable exclude flags. Variable exclude flags exclude certain variable groups from being processed and sent to SLED when execution stops on a breakpoint.

Enumerated Types

Enum

Variable exclude flags for execution stops on a breakpoint.

Definition

```
#include <params.h>
namespace sce {
   namespace Sled {
      namespace VarExcludeFlags {
        enum Enum {
            kNone = 0,
            kGlobals = (1 << 1),
            kLocals = (1 << 2),
            kUpvalues = (1 << 3),
            kEnvironment = (1 << 4)
        };
    }
}</pre>
```

Enumeration Values

Macro	Value	Description
kNone	0	Do not exclude any variable groups. This is the default
		behavior.
kGlobals	(1 << 1)	Exclude processing and sending global variables.
kLocals	(1 << 2)	Exclude processing and sending local variables.
kUpvalues	(1 << 3)	Exclude processing and sending upvalue variables.
kEnvironment	(1 << 4)	Exclude processing and sending environment table
		variables.

Description

Variable exclude flags exclude certain variable groups from being processed and sent to SLED when execution stops on a breakpoint.

sce::Sled::LuaPlugin class

Summary

sce::Sled::LuaPlugin

Class describing a Lua plugin instance.

Definition

```
#include <sledluaplugin_class.h>
class LuaPlugin {};
```

Description

Widely used class encapsulating the internals of a Lua plugin instance. Instantiate a <u>LuaPlugin</u> from a <u>LuaPluginConfig</u>.

This class is closed, and its internal data is not accessible.

The following are the main functions handling SledDebugger:

```
sce::Sled::luaPluginCreate():Create LuaPlugin instance.
```

sce::Sled::luaPluginRequiredMemory(): Calculate size in bytes required for <u>LuaPlugin</u> instance based on configuration structure.

sce::Sled::luaPluginShutdown():Shut down LuaPlugin instance.

sce::Sled::luaPluginGetId():Get ID of plugin.

sce::Sled::luaPluginRegisterLuaState():Register lua_State* with library.

sce::Sled::luaPluginUnregisterLuaState():Unregister lua_State* from library.

sce::Sled::luaPluginIsProfilerRunning(): Check whether profiler is running.

sce::Sled::luaPluginIsMemoryTracerRunning(): Check whether memory tracer is running.

sce::Sled::luaPluginDebuggerBreak(): Force breakpoint on specific lua_State and send
data via TTY.

sce::Sled::luaPluginMemoryTraceNotify(): Provide way to report Lua allocations to library
for tracking with memory tracer.

sce::Sled::debuggerAddLuaPlugin():Add LuaPlugin to SledDebugger.

For the full list of <u>LuaPlugin</u> functions, see <u>sce::Sled</u>.

sce::Sled::LuaPluginConfig struct

Summary

sce::Sled::LuaPluginConfig

LuaPlugin configuration parameters.

Definition

```
#include <params.h>
struct LuaPluginConfig {};
```

Description

Configuration parameters for LuaPlugin.

Fields

Public Instance Fields

uint16 t maxBreakpoints uint16 t maxEditAndContinueEntryLen uint16_t maxEditAndContinues uint16 t maxLuaStateNameLen uint16_t maxLuaStates uint32_t maxMemTraces uint16_t maxNumVarFilters uint16_t maxPatternsPerVarFilter uint16 t maxProfileCallStackDepth uint16_t maxProfileFunctions uint32_t maxSendBufferSize uint16_t maxVarFilterPatternLen uint32_t maxWorkBufferSize int32_t numPathChopChars void *pEditAndContinueUserData ChopCharsCallback pfnChopCharsCallback EditAndContinueCallback pfnEditAndContinueCallback ${\tt EditAndContinueFinishCallback}$ pfnEditAndContinueFinishCallback

Maximum number of breakpoints.

Maximum length of an edit and continue entry.

Maximum number of scripts that can be modified when

stopped on a breakpoint while debugging. Maximum length of a Lua state name.

Maximum number of Lua states that can be debugged. Maximum number of memory traces to hold in memory.

Maximum number of variable filters.

Maximum number of patterns per filter.

Maximum call stack depth.

Maximum number of functions to profile.

Maximum size, in bytes, of the send buffer (1024

recommended at a minimum)

Maximum length of a single pattern in a filter.

Maximum size of the work buffer (1024 recommended at

a minimum)

The number of characters to strip off the beginning of a

path string.

Edit and continue callback userdata.

Modified path to compare breakpoint against.

Edit and continue callback function.

Edit and continue finish callback function.

Methods Summary

Methods	Description
LuaPluginConfig	LuaPluginConfig constructor.

Constructors and Destructors

LuaPluginConfig

LuaPluginConfig constructor.

Definition

#include <params.h>
inline LuaPluginConfig();

Return Values

None

Description

Constructor to initialize items.