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## Function

# BNNSGraphCompileOptionsSetMessageLogCallback(\_:\_:\_:)

Specifies a customized callback function that reports compile-time messages.

iOS 18.0+ | iPadOS 18.0+ | Mac Catalyst 18.0+ | macOS 15.0+ | tvOS 18.0+ | visionOS 2.0+ | watchOS 11.0+

```
func BNNSGraphCompileOptionsSetMessageLogCallback(
    _ options: bnns_graph_compile_options_t,
    _ log_callback: bnns_graph_compile_message_fn_t,
    _ additional_logging_arguments: UnsafeMutablePointer<bnns_user_message_data_t>?
)
```

## Parameters

### options

The compilation options object.

### log\_callback

The message-logging callback function.

### additional\_logging\_arguments

Additional data for the message-logging functions that BNNS passes unaltered to the callback function.

## Discussion

If you don't specify this callback, default callback functions log messages to `os_log`.

The following code adds a custom graph compile message callback function that prints `BNNSTypeGraphMessageLevelInfo` level messages to the console:

```
let options = BNNSTypeGraphCompileOptionsMakeDefault()
defer {
    BNNSTypeGraphCompileOptionsDestroy(options)
}

BNNSTypeGraphCompileOptionsSetMessageLogMask(options, BNNSTypeGraphMessageLevelInfo.rawValue)
BNNSTypeGraphCompileOptionsSetMessageLogCallback(options, messageLogCallback, nil)

func messageLogCallback(msg_level: BNNSTypeGraphMessageLevel,
                        error_msg: UnsafePointer<CChar>,
                        source_location: UnsafePointer<CChar>?,
                        user_message_data_t:UnsafeMutablePointer<user_message_data_t>?) {

    print(NSString(cString: error_msg, encoding: NSUTF8StringEncoding) ?? "")
    if let source_location = source_location {
        print(NSString(cString: source_location, encoding: NSUTF8StringEncoding) ?? "")
    }
}
```

## See Also

### Specifying a graph's compile-time message callback

```
func BNNSTypeGraphCompileOptionsSetMessageLogMask(bnns_graph_compile_options_t, UInt32)
```

Sets the mask for compile-time messages.

```
func BNNSTypeGraphContextSetMessageLogMask(bnns_graph_context_t, UInt32) -> Int32
```

Sets mask for log messages that are logged (either via `os_log` or the user specified callback)

```
struct BNNSTypeGraphMessageLevel
```

Constants that specify the mask for compile-time messages.

```
typedef bnns_graph_compile_message_fn_t
```

The graph compile-message logging callback function.

```
struct bnns_user_message_data_t
```

Additional user-defined logging argument for message-logging callbacks.