

Low-level API Index

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]asyncio-llapi-index.rst, line 1)

Unknown directive type "currentmodule".

```
.. currentmodule:: asyncio
```

This page lists all low-level asyncio APIs.

Obtaining the Event Loop

<code>:func:`asyncio.get_running_loop`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]asyncio-llapi-index.rst, line 18); backlink</p><p>Unknown interpreted text role "func".</p></div> <p>The preferred function to get the running event loop.</p>
<code>:func:`asyncio.get_event_loop`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]asyncio-llapi-index.rst, line 21); backlink</p><p>Unknown interpreted text role "func".</p></div> <p>Get an event loop instance (current or via the policy).</p>
<code>:func:`asyncio.set_event_loop`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]asyncio-llapi-index.rst, line 24); backlink</p><p>Unknown interpreted text role "func".</p></div> <p>Set the event loop as current via the current policy.</p>
<code>:func:`asyncio.new_event_loop`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]asyncio-llapi-index.rst, line 27); backlink</p><p>Unknown interpreted text role "func".</p></div> <p>Create a new event loop.</p>

Examples

- `ref:`Using asyncio.get_running_loop() <asyncio_example_future>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-

resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 33); [backlink](#)

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Event Loop Methods

See also the main documentation section about the `ref` event loop methods `<asyncio-event-loop>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 39); [backlink](#)

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Lifecycle

<code>:meth:`loop.run_until_complete`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 47); backlink</p><p>Unknown interpreted text role "meth".</p></div> <p>Run a Future/Task/awaitable until complete.</p>
<code>:meth:`loop.run_forever`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 50); backlink</p><p>Unknown interpreted text role "meth".</p></div> <p>Run the event loop forever.</p>
<code>:meth:`loop.stop`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 53); backlink</p><p>Unknown interpreted text role "meth".</p></div> <p>Stop the event loop.</p>
<code>:meth:`loop.close`</code>	<div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 56); backlink</p><p>Unknown interpreted text role "meth".</p></div> <p>Close the event loop.</p>

<code>.meth: loop.is_running()</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 59); backlink Unknown interpreted text role "meth". </div>	Return <code>True</code> if the event loop is running.
<code>.meth: loop.is_closed()</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 62); backlink Unknown interpreted text role "meth". </div>	Return <code>True</code> if the event loop is closed.
<code>await .meth: loop.shutdown_asyncgens()</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 65); backlink Unknown interpreted text role "meth". </div>	Close asynchronous generators.

Debugging

<code>.meth: loop.set_debug()</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 74); backlink Unknown interpreted text role "meth". </div>	Enable or disable the debug mode.
<code>.meth: loop.get_debug()</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 77); backlink Unknown interpreted text role "meth". </div>	Get the current debug mode.

Scheduling Callbacks

<code>.meth: 'loop.call_soon'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 86); backlink Unknown interpreted text role "meth". </div>	Invoke a callback soon.
<code>.meth: 'loop.call_soon_threadsafe'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 89); backlink Unknown interpreted text role "meth". </div>	A thread-safe variant of <code>.meth: 'loop.call_soon'</code> . <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 90); backlink Unknown interpreted text role "meth". </div>
<code>.meth: 'loop.call_later'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 92); backlink Unknown interpreted text role "meth". </div>	Invoke a callback <i>after</i> the given time.
<code>.meth: 'loop.call_at'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 95); backlink Unknown interpreted text role "meth". </div>	Invoke a callback <i>at</i> the given time.

Thread/Process Pool

<code>await .meth: 'loop.run_in_executor'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 104); backlink Unknown interpreted text role "meth". </div>	Run a CPU-bound or other blocking function in a <code>.mod: 'concurrent.futures'</code> executor. <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 105); backlink Unknown interpreted text role "mod". </div>
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`.meth:loop.set_default_executor``

System Message: ERROR/3

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Set the default executor for `.meth:loop.run_in_executor``.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 109); [backlink](#)

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Tasks and Futures

`.meth:loop.create_future``

System Message: ERROR/3

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Create a `.class:Future`` object.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 118); [backlink](#)

Unknown interpreted text role "class".

`.meth:loop.create_task``

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 120); [backlink](#)

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Schedule coroutine as a `.class:Task``.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 121); [backlink](#)

Unknown interpreted text role "class".

`.meth:loop.set_task_factory``

System Message: ERROR/3

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Set a factory used by `.meth:loop.create_task`` to create `.class:Tasks <Task>``.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 124); [backlink](#)

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System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 124); [backlink](#)

Unknown interpreted text role "class".

<code>meth:'loop.get_task_factory'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 127); backlink Unknown interpreted text role "meth". </div>	Get the factory <code>meth:'loop.create_task'</code> uses to create <code>class:'Tasks <Task>'</code> . <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 128); backlink Unknown interpreted text role "meth". </div> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 128); backlink Unknown interpreted text role "class". </div>
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DNS

await <code>meth:'loop.getaddrinfo'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 137); backlink Unknown interpreted text role "meth". </div>	Asynchronous version of <code>meth:'socket.getaddrinfo'</code> . <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 138); backlink Unknown interpreted text role "meth". </div>
await <code>meth:'loop.getnameinfo'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 140); backlink Unknown interpreted text role "meth". </div>	Asynchronous version of <code>meth:'socket.getnameinfo'</code> . <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 141); backlink Unknown interpreted text role "meth". </div>

Networking and IPC

await <code>meth:'loop.create_connection'</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 149); backlink Unknown interpreted text role "meth". </div>	Open a TCP connection.
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<p>await <code>meth:loop.create_server</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 152); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Create a TCP server.</p>
<p>await <code>meth:loop.create_unix_connection</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 155); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Open a Unix socket connection.</p>
<p>await <code>meth:loop.create_unix_server</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 158); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Create a Unix socket server.</p>
<p>await <code>meth:loop.connect_accepted_socket</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 161); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Wrap a <code>class:~socket.socket</code> into a (transport, protocol) pair.</p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 162); backlink</p> <p>Unknown interpreted text role "class".</p> </div>
<p>await <code>meth:loop.create_datagram_endpoint</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 165); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Open a datagram (UDP) connection.</p>

await <code>meth:loop.sendFile`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 168); backlink Unknown interpreted text role "meth". </div>	Send a file over a transport.
await <code>meth:loop.start_tls`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 171); backlink Unknown interpreted text role "meth". </div>	Upgrade an existing connection to TLS.
await <code>meth:loop.connect_read_pipe`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 174); backlink Unknown interpreted text role "meth". </div>	Wrap a read end of a pipe into a <code>(transport, protocol)</code> pair.
await <code>meth:loop.connect_write_pipe`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 177); backlink Unknown interpreted text role "meth". </div>	Wrap a write end of a pipe into a <code>(transport, protocol)</code> pair.

Sockets

await <code>meth:loop.sock_recv`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 186); backlink Unknown interpreted text role "meth". </div>	Receive data from the <code>:class:`~socket.socket`</code> . <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 187); backlink Unknown interpreted text role "class". </div>
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await `meth:~loop.sock_recv_into``

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 189); [backlink](#)

Unknown interpreted text role "meth".

Receive data from the `:class:~socket.socket`` into a buffer.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 190); [backlink](#)

Unknown interpreted text role "class".

await `meth:~loop.sock_recvfrom``

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 192); [backlink](#)

Unknown interpreted text role "meth".

Receive a datagram from the `:class:~socket.socket``.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 193); [backlink](#)

Unknown interpreted text role "class".

await `meth:~loop.sock_recvfrom_into``

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 195); [backlink](#)

Unknown interpreted text role "meth".

Receive a datagram from the `:class:~socket.socket`` into a buffer.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 196); [backlink](#)

Unknown interpreted text role "class".

await `meth:~loop.sock_sendall``

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 198); [backlink](#)

Unknown interpreted text role "meth".

Send data to the `:class:~socket.socket``.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 199); [backlink](#)

Unknown interpreted text role "class".

await `meth:~loop.sock_sendto``

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 201); [backlink](#)

Unknown interpreted text role "meth".

Send a datagram via the `:class:~socket.socket`` to the given address.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 202); [backlink](#)

Unknown interpreted text role "class".

await `meth:~loop.sock_connect`

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 204); [backlink](#)

Unknown interpreted text role "meth".

Connect the `class:~socket.socket`.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 205); [backlink](#)

Unknown interpreted text role "class".

await `meth:~loop.sock_accept`

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 207); [backlink](#)

Unknown interpreted text role "meth".

Accept a `class:~socket.socket` connection.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 208); [backlink](#)

Unknown interpreted text role "class".

await `meth:~loop.sock_sendfile`

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 210); [backlink](#)

Unknown interpreted text role "meth".

Send a file over the `class:~socket.socket`.

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 211); [backlink](#)

Unknown interpreted text role "class".

`meth:~loop.add_reader`

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 213); [backlink](#)

Unknown interpreted text role "meth".

Start watching a file descriptor for read availability.

`meth:~loop.remove_reader`

System Message: ERROR/3

(D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 216); [backlink](#)

Unknown interpreted text role "meth".

Stop watching a file descriptor for read availability.

<code>.meth: loop.add_writer`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 219); backlink Unknown interpreted text role "meth". </div>	Start watching a file descriptor for write availability.
<code>.meth: loop.remove_writer`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 222); backlink Unknown interpreted text role "meth". </div>	Stop watching a file descriptor for write availability.

Unix Signals

<code>.meth: loop.add_signal_handler`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 231); backlink Unknown interpreted text role "meth". </div>	Add a handler for a <code>.mod: signal`</code> . <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 232); backlink Unknown interpreted text role "mod". </div>
<code>.meth: loop.remove_signal_handler`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 234); backlink Unknown interpreted text role "meth". </div>	Remove a handler for a <code>.mod: signal`</code> . <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 235); backlink Unknown interpreted text role "mod". </div>

Subprocesses

<code>.meth: loop.subprocess_exec`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 243); backlink Unknown interpreted text role "meth". </div>	Spawn a subprocess.
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<pre>.meth: loop.subprocess_shell`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 246); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Spawn a subprocess from a shell command.</p>
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Error Handling

<pre>.meth: loop.call_exception_handler`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 255); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Call the exception handler.</p>
<pre>.meth: loop.set_exception_handler`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 258); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Set a new exception handler.</p>
<pre>.meth: loop.get_exception_handler`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 261); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Get the current exception handler.</p>
<pre>.meth: loop.default_exception_handler`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 264); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>The default exception handler implementation.</p>

Examples

- `.ref: Using asyncio.get_event_loop() and loop.run_forever() <asyncio_example_lowlevel_helloworld>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 270); [backlink](#)

Unknown interpreted text role "ref".

- `ref`Using loop.call_later() <asyncio_example_call_later>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 273); [backlink](#)

Unknown interpreted text role "ref".

- Using `loop.create_connection()` to implement `ref`an echo-client <asyncio_example_tcp_echo_client_protocol>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 275); [backlink](#)

Unknown interpreted text role "ref".

- Using `loop.create_connection()` to `ref`connect a socket <asyncio_example_create_connection>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 278); [backlink](#)

Unknown interpreted text role "ref".

- `ref`Using add_reader() to watch an FD for read events <asyncio_example_watch_fd>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 281); [backlink](#)

Unknown interpreted text role "ref".

- `ref`Using loop.add_signal_handler() <asyncio_example_unix_signals>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 284); [backlink](#)

Unknown interpreted text role "ref".

- `ref`Using loop.subprocess_exec() <asyncio_example_subprocess_proto>`.`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 286); [backlink](#)

Unknown interpreted text role "ref".

Transports

All transports implement the following methods:

`meth`transport.close() <BaseTransport.close>``

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 298); [backlink](#)

Unknown interpreted text role "meth".

Close the transport.

<p><code>.meth:transport.is_closing() <BaseTransport.is_closing></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 301); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Return <code>True</code> if the transport is closing or is closed.</p>
<p><code>.meth:transport.get_extra_info() <BaseTransport.get_extra_info></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 304); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Request for information about the transport.</p>
<p><code>.meth:transport.set_protocol() <BaseTransport.set_protocol></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 307); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Set a new protocol.</p>
<p><code>.meth:transport.get_protocol() <BaseTransport.get_protocol></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 310); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Return the current protocol.</p>

Transports that can receive data (TCP and Unix connections, pipes, etc). Returned from methods like `.meth:loop.create_connection`, `.meth:loop.create_unix_connection`, `.meth:loop.connect_read_pipe`, etc:

<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 314); backlink</p> <p>Unknown interpreted text role "meth".</p>
<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 314); backlink</p> <p>Unknown interpreted text role "meth".</p>
<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 314); backlink</p> <p>Unknown interpreted text role "meth".</p>

Read Transports

<pre>.meth:`transport.is_reading()` <ReadTransport.is_reading>`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 324); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Return <code>True</code> if the transport is receiving.</p>
<pre>.meth:`transport.pause_reading()` <ReadTransport.pause_reading>`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 327); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Pause receiving.</p>
<pre>.meth:`transport.resume_reading()` <ReadTransport.resume_reading>`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 330); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Resume receiving.</p>

Transports that can Send data (TCP and Unix connections, pipes, etc). Returned from methods like `.meth:`loop.create_connection``, `.meth:`loop.create_unix_connection``, `.meth:`loop.connect_write_pipe``, etc:

<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 334); backlink</p> <p>Unknown interpreted text role "meth".</p>
<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 334); backlink</p> <p>Unknown interpreted text role "meth".</p>
<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 334); backlink</p> <p>Unknown interpreted text role "meth".</p>

Write Transports

<p><code>.meth: transport.write() <WriteTransport.write></code></p> <div data-bbox="213 134 738 398"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 344); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Write data to the transport.</p>
<p><code>.meth: transport.writelines() <WriteTransport.writelines></code></p> <div data-bbox="213 486 738 750"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 347); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Write buffers to the transport.</p>
<p><code>.meth: transport.can_write_eof() <WriteTransport.can_write_eof></code></p> <div data-bbox="213 864 738 1128"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 350); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Return <code>:const: 'True'</code> if the transport supports sending EOF.</p> <div data-bbox="858 851 1380 1115"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 351); backlink</p> <p>Unknown interpreted text role "const".</p> </div>
<p><code>.meth: transport.write_eof() <WriteTransport.write_eof></code></p> <div data-bbox="213 1218 738 1482"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 353); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Close and send EOF after flushing buffered data.</p>
<p><code>.meth: transport.abort() <WriteTransport.abort></code></p> <div data-bbox="213 1570 738 1834"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 356); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Close the transport immediately.</p>

<pre>.meth:`transport.get_write_buffer_size() <WriteTransport.get_write_buffer_size>`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 359); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Return high and low water marks for write flow control.
<pre>.meth:`transport.set_write_buffer_limits() <WriteTransport.set_write_buffer_limits>`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 363); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Set new high and low water marks for write flow control.

Transports returned by `.meth:`loop.create_datagram_endpoint``:

<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 368); backlink</p> <p>Unknown interpreted text role "meth".</p>
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Datagram Transports

<pre>.meth:`transport.sendto() <DatagramTransport.sendto>`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 375); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Send data to the remote peer.
<pre>.meth:`transport.abort() <DatagramTransport.abort>`</pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 378); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Close the transport immediately.

Low-level transport abstraction over subprocesses. Returned by `.meth:`loop.subprocess_exec`` and `.meth:`loop.subprocess_shell``:

<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 382); backlink</p> <p>Unknown interpreted text role "meth".</p>
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<p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 382); backlink</p>

Subprocess Transports

<p><code>.meth: transport.get_pid() <SubprocessTransport.get_pid></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 391); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Return the subprocess process id.
<p><code>.meth: transport.get_pipe_transport() <SubprocessTransport.get_pipe_transport></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 394); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Return the transport for the requested communication pipe (<i>stdin</i> , <i>stdout</i> , or <i>stderr</i>).
<p><code>.meth: transport.get_returncode() <SubprocessTransport.get_returncode></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 399); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Return the subprocess return code.
<p><code>.meth: transport.kill() <SubprocessTransport.kill></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 402); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Kill the subprocess.
<p><code>.meth: transport.send_signal() <SubprocessTransport.send_signal></code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 405); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Send a signal to the subprocess.

<pre>meth: transport.terminate() <SubprocessTransport.terminate></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 408); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Stop the subprocess.
<pre>meth: transport.close() <SubprocessTransport.close></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 411); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Kill the subprocess and close all pipes.

Protocols

Protocol classes can implement the following **callback methods**:

<pre>callback meth: connection_made() <BaseProtocol.connection_made></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 424); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Called when a connection is made.
<pre>callback meth: connection_lost() <BaseProtocol.connection_lost></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 427); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Called when the connection is lost or closed.
<pre>callback meth: pause_writing() <BaseProtocol.pause_writing></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 430); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	Called when the transport's buffer goes over the high water mark.

callback meth:resume_writing() <BaseProtocol.resume_writing>` <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 433); backlink Unknown interpreted text role "meth". </div>	Called when the transport's buffer drains below the low water mark.
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Streaming Protocols (TCP, Unix Sockets, Pipes)

callback meth:data_received() <Protocol.data_received>` <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 442); backlink Unknown interpreted text role "meth". </div>	Called when some data is received.
callback meth:eof_received() <Protocol.eof_received>` <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 445); backlink Unknown interpreted text role "meth". </div>	Called when an EOF is received.

Buffered Streaming Protocols

callback meth:get_buffer() <BufferedProtocol.get_buffer>` <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 454); backlink Unknown interpreted text role "meth". </div>	Called to allocate a new receive buffer.
callback meth:buffer_updated() <BufferedProtocol.buffer_updated>` <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 457); backlink Unknown interpreted text role "meth". </div>	Called when the buffer was updated with the received data.

<pre>callback meth: eof_received() <BufferedProtocol.eof_received></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 460); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Called when an EOF is received.</p>
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Datagram Protocols

<pre>callback meth: datagram_received() <DatagramProtocol.datagram_received></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 469); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Called when a datagram is received.</p>
<pre>callback meth: error_received() <DatagramProtocol.error_received></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 473); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Called when a previous send or receive operation raises an <code>class: OSError</code>.</p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 474); backlink</p> <p>Unknown interpreted text role "class".</p> </div>

Subprocess Protocols

<pre>callback meth: pipe_data_received() <SubprocessProtocol.pipe_data_received></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 483); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Called when the child process writes data into its <i>stdout</i> or <i>stderr</i> pipe.</p>
<pre>callback meth: pipe_connection_lost() <SubprocessProtocol.pipe_connection_lost></pre> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 488); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>Called when one of the pipes communicating with the child process is closed.</p>

<code>callback meth:`process_exited()` <SubprocessProtocol.process_exited></code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 493); backlink Unknown interpreted text role "meth". </div>	<p>Called when the child process has exited.</p>
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Event Loop Policies

Policies is a low-level mechanism to alter the behavior of functions like `:func:`asyncio.get_event_loop``. See also the main `:ref:`policies`` section `<asyncio-policies>` for more details.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 501); backlink Unknown interpreted text role "func".
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 501); backlink Unknown interpreted text role "ref".

Accessing Policies

<code>meth:`asyncio.get_event_loop_policy`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 512); backlink Unknown interpreted text role "meth". </div>	<p>Return the current process-wide policy.</p>
<code>meth:`asyncio.set_event_loop_policy`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 515); backlink Unknown interpreted text role "meth". </div>	<p>Set a new process-wide policy.</p>
<code>:class:`AbstractEventLoopPolicy`</code> <div> System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] asyncio-llapi-index.rst, line 518); backlink Unknown interpreted text role "class". </div>	<p>Base class for policy objects.</p>