

openlane.logging API

The Logging Module

As the name implies, this handles OpenLane's logging using the `logging` module and the `rich` library.

```
class openlane.logging.LogLevels(value)
```

Bases: `IntEnum`

An enumeration.

```
class openlane.logging.LevelFilter(levels: Iterable[str], invert: bool = False)
```

Bases: `Filter`

PARAMETERS:

- **levels** (*Iterable[str]*)
- **invert** (*bool*)

```
filter(record: LogRecord) → bool
```

Determine if the specified record is to be logged.

Returns True if the record should be logged, or False otherwise. If deemed appropriate, the record may be modified in-place.

PARAMETERS:

record (*LogRecord*)

RETURN TYPE:

`bool`

```
openlane.logging.set_log_level(lv: str | int)
```

Sets the log level of the default OpenLane logger.

PARAMETERS:

lv (*str | int*) – Either the name or number of [Read the Docs](#)  [latest](#)

```
openlane.logging.reset_log_level()
```

Sets the log level of the default OpenLane logger back to the default log level.

`openlane.logging.get_log_level() → int`

Obtains the numeric log level of the OpenLane logger.

RETURN TYPE:

int

`openlane.logging.register_additional_handler(handler: Handler)`

Adds a new handler to the default OpenLane logger.

PARAMETERS:

handler (*Handler*) – The new handler. Must be of type `logging.Handler` or its subclasses.

`openlane.logging.deregister_additional_handler(handler: Handler)`

Removes a registered handler from the default OpenLane logger.

PARAMETERS:

handler (*Handler*) – The handler. If not registered, the behavior of this function is undefined.

`openlane.logging.verbose(*args, **kwargs)`

Logs to the OpenLane logger with the log level VERBOSE.

`openlane.logging.debug(*args, **kwargs)`

Logs to the OpenLane logger with the log level DEBUG.

PARAMETERS:

msg – The message to log

`openlane.logging.info(msg: object, /, **kwargs)`

Logs to the OpenLane logger with the log level INFO.

PARAMETERS:

msg (*object*) – The message to log

`openlane.logging.rule(title: str = '', /, **kwargs)` [Read the Docs](#) [🔗 latest](#)

Prints a horizontal line on the terminal enclosing the first argument if the log level is `<= INFO`.

Kwargs are passed to

<https://rich.readthedocs.io/en/stable/reference/console.html#rich.console.Console.rule>

PARAMETERS:

title (*str*) – A title string to enclose in the console rule

`openlane.logging.success(msg: object, /, **kwargs)`

Logs to the OpenLane logger with the log level INFO.

PARAMETERS:

msg (*object*) – The message to log

`openlane.logging.warn(msg: object, /, **kwargs)`

Logs to the OpenLane logger with the log level WARNING.

PARAMETERS:

msg (*object*) – The message to log

`openlane.logging.err(msg: object, /, **kwargs)`

Logs to the OpenLane logger with the log level ERROR.

PARAMETERS:

msg (*object*) – The message to log

`openlane.logging.subprocess(msg: object, /, **kwargs)`

Logs to the OpenLane logger with the log level SUBPROCESS.

PARAMETERS:

msg (*object*) – The message to log



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