

Working...

— 100% 0:00:23

Run started:2025-04-28 20:28:02.160366

Test results:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/_distutils_hack/__init__.py:64:4

```
63     core = importlib.import_module('distutils.core')
64     assert '_distutils' in core.__file__, core.__file__
65     assert 'setuptools._distutils.log' not in sys.modules
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/_distutils_hack/__init__.py:65:4

```
64     assert '_distutils' in core.__file__, core.__file__
65     assert 'setuptools._distutils.log' not in sys.modules
66
```

>> Issue: [B613:trojansource] A Python source file contains bidirectional control characters ('\u202e').

Severity: High Confidence: Medium

CWE: CWE-838 (<https://cwe.mitre.org/data/definitions/838.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b613_trojansource.html

Location: ./venv/lib/python3.11/site-packages/bandit/plugins/trojansource.py:22:36

```
21     3     access_level = "user"
22     4     if access_level != 'none' and access_level != 'user': # Check if admin
23     5         print("You are an admin.\n")
24
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/markdown_it/ruler.py:266:12

```
265         self.__compile__()
266         assert self.__cache__ is not None
267         # Chain can be empty, if rules disabled. But we still have to return Array.
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/markdown_it/rules_core/

linkify.py:35:8

```
34         # Use reversed logic in links start/end match
35         assert tokens is not None
36         i = len(tokens)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/markdown_it/rules_core/

linkify.py:39:12

```
38         i -= 1
39         assert isinstance(tokens, list)
40         currentToken = tokens[i]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/markdown_it/rules_core/

smartquotes.py:20:4

```
19         # But basically, the index will not be negative.
20         assert index >= 0
21         return string[:index] + ch + string[index + 1 :]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/markdown_it/tree.py:101:16

```
100         else:
101             assert node.nester_tokens
102             token_list.append(node.nester_tokens.opening)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/markdown_it/tree.py:165:8

```
164         return self.token.type
165         assert self.nester_tokens
166         return _removesuffix(self.nester_tokens.opening.type, "_open")
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pbr/git.py:25:0

```
24 import re
25 import subprocess
26 import time
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pbr/git.py:46:13

```
45
46     output = subprocess.Popen(cmd,
47                               stdout=out_location,
```

```
48             stderr=err_location,  
49             env=newenv)  
50     out = output.communicate()
```

```
-----  
>> Issue: [B110:try_except_pass] Try, Except, Pass detected.  
Severity: Low Confidence: High  
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)  
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/  
b110\_try\_except\_pass.html  
Location: ./venv/lib/python3.11/site-packages/pbr/packaging.py:729:12  
728         version_tags.add(semver)  
729     except Exception:  
730         pass  
731     if version_tags:
```

```
-----  
>> Issue: [B605:start_process_with_a_shell] Starting a process with a shell:  
Seems safe, but may be changed in the future, consider rewriting without shell  
Severity: Low Confidence: High  
CWE: CWE-78 (https://cwe.mitre.org/data/definitions/78.html)  
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/  
b605\_start\_process\_with\_a\_shell.html  
Location: ./venv/lib/python3.11/site-packages/pbr/testr_command.py:142:8  
141     logger.debug("_coverage_after called")  
142     os.system("coverage combine")  
143     os.system("coverage html -d ./cover %s" % self.omit)
```

```
-----  
>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial  
executable path  
Severity: Low Confidence: High  
CWE: CWE-78 (https://cwe.mitre.org/data/definitions/78.html)  
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/  
b607\_start\_process\_with\_partial\_path.html  
Location: ./venv/lib/python3.11/site-packages/pbr/testr_command.py:142:8  
141     logger.debug("_coverage_after called")  
142     os.system("coverage combine")  
143     os.system("coverage html -d ./cover %s" % self.omit)
```

```
-----  
>> Issue: [B605:start_process_with_a_shell] Starting a process with a shell,  
possible injection detected, security issue.  
Severity: High Confidence: High
```

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b605_start_process_with_a_shell.html
Location: ./venv/lib/python3.11/site-packages/pbr/testr_command.py:143:8

```
142     os.system("coverage combine")
143     os.system("coverage html -d ./cover %s" % self.omit)
144     os.system("coverage xml -o ./cover/coverage.xml %s" % self.omit)
```

>> Issue: [B605:start_process_with_a_shell] Starting a process with a shell, possible injection detected, security issue.

Severity: High Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b605_start_process_with_a_shell.html
Location: ./venv/lib/python3.11/site-packages/pbr/testr_command.py:144:8

```
143     os.system("coverage html -d ./cover %s" % self.omit)
144     os.system("coverage xml -o ./cover/coverage.xml %s" % self.omit)
145
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess
Location: ./venv/lib/python3.11/site-packages/pbr/tests/base.py:44:0

```
43 import shutil
44 import subprocess
45 import sys
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html
Location: ./venv/lib/python3.11/site-packages/pbr/tests/base.py:182:15

```
181     super(CapturedSubprocess, self).setUp()
182     proc = subprocess.Popen(xself.xargs, **self.xkwargs)
183     out, err = proc.communicate()
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pbr/tests/base.py:206:8

```
205     print('Running %s' % ' '.join(args))
206     p = subprocess.Popen(
207         args, stdin=subprocess.PIPE, stdout=subprocess.PIPE,
208         stderr=subprocess.PIPE, cwd=cwd)
209     streams = tuple(s.decode('latin1').strip() for s in p.communicate())
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_core.py:78:8

```
77         stdout, _, _ = self.run_setup('--keywords')
78         assert stdout == 'packaging, distutils, setuptools'
79
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_core.py:89:12

```
88         except IndexError:
89             assert False, 'source dist not found'
90
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_hooks.py:68:8

```
67     stdout, _, return_code = self.run_setup('egg_info')
68     assert 'test_hook_1\ntest_hook_2' in stdout
69     assert return_code == 0
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_hooks.py:69:8

```
68     assert 'test_hook_1\ntest_hook_2' in stdout
69     assert return_code == 0
70
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_wsgi.py:17:0

```
16 import re
17 import subprocess
18 import sys
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_wsgi.py:87:12

```
86
87     p = subprocess.Popen(popen_cmd, stdout=subprocess.PIPE,
88                           stderr=subprocess.PIPE, cwd=self.temp_dir,
89                           env=env)
90     self.addCleanup(p.kill)
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High
CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen
Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_wsgi.py:111:12

```
110
111     f = urlopen(m.group(1).decode('utf-8'))
112     self.assertEqual(output, f.read())
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High
CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen
Location: ./venv/lib/python3.11/site-packages/pbr/tests/test_wsgi.py:116:8

```
115     # otherwise the log is buffered and the next readline() will hang.
116     urlopen(m.group(1).decode('utf-8'))
117
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/__pip-runner__.py:43:8

```
42     spec = PathFinder.find_spec(fullname, [PIP_SOURCES_ROOT], target)
43     assert spec, (PIP_SOURCES_ROOT, fullname)
44     return spec
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/__pip-runner__.py:49:0

```
48
49     assert __name__ == "__main__", "Cannot run __pip-runner__.py as a non-
main module"
50     runpy.run_module("pip", run_name="__main__", alter_sys=True)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/build_env.py:213:8

```
212     prefix = self._prefixes[prefix_as_string]
213     assert not prefix.setup
214     prefix.setup = True
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cache.py:48:8

```
47     super().__init__()
48     assert not cache_dir or os.path.isabs(cache_dir)
49     self.cache_dir = cache_dir or None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cache.py:54:8

```
53     _valid_formats = {"source", "binary"}
54     assert self.allowed_formats.union(_valid_formats) == _valid_formats
55
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cache.py:143:8

```
142     parts = self._get_cache_path_parts(link)
143     assert self.cache_dir
144     # Store wheels within the root cache_dir
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

base_command.py:89:8

88 # are present.

89 assert not hasattr(options, "no_index")

90

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

base_command.py:161:20

160 status = run_func(*args)

161 assert isinstance(status, int)

162 return status

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

command_context.py:15:8

14 def main_context(self) -> Generator[None, None, None]:

15 assert not self._in_main_context

16

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

command_context.py:25:8

```
24     def enter_context(self, context_provider: ContextManager[_T]) -> _T:
25         assert self._in_main_context
26
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/main_parser.py:5:0

```
4     import os
5     import subprocess
6     import sys
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/main_parser.py:101:19

```
100         try:
101             proc = subprocess.run(pip_cmd)
102             returncode = proc.returncode
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/parser.py:51:12

```
50         if option.takes_value():
51             assert option.dest is not None
52             metavar = option.metavar or option.dest.lower()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/parser.py:112:12

```
111         if self.parser is not None:
112             assert isinstance(self.parser, ConfigOptionParser)
113             self.parser._update_defaults(self.parser.defaults)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/parser.py:114:12

```
113         self.parser._update_defaults(self.parser.defaults)
114         assert option.dest is not None
115         default_values = self.parser.defaults.get(option.dest)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/parser.py:168:8

```
167
168         assert self.name
169         super().__init__(*args, **kwargs)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/parser.py:225:12

```
224
225         assert option.dest is not None
226
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/parser.py:252:16

```
251         elif option.action == "callback":
252             assert option.callback is not None
253             late_eval.add(option.dest)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/parser.py:285:12

```
284         for option in self._get_all_options():
285             assert option.dest is not None
286             default = defaults.get(option.dest)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/progress_bars.py:28:4

```
27 ) -> Generator[bytes, None, None]:
28     assert bar_type == "on", "This should only be used in the default mode."
29
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/req_command.py:102:12

```
101         # then https://github.com/python/mypy/issues/7696 kicks in
102         assert self._session is not None
103         return self._session
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

req_command.py:113:8

```
112     cache_dir = options.cache_dir
```

```
113     assert not cache_dir or os.path.isabs(cache_dir)
```

```
114
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

req_command.py:173:8

```
172     # Make sure the index_group options are present.
```

```
173     assert hasattr(options, "no_index")
```

```
174
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

req_command.py:242:8

```
241     ) -> Optional[int]:
```

```
242     assert self.tempdir_registry is not None
```

```
243     if options.no_clean:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/

req_command.py:288:8

```
287     temp_build_dir_path = temp_build_dir.path
```

288 assert temp_build_dir_path is not None
289

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/spinners.py:44:8

```
43       def _write(self, status: str) -> None:  
44           assert not self._finished  
45           # Erase what we wrote before by backspacing to the beginning, writing
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/cli/spinners.py:83:8

```
82       def _update(self, status: str) -> None:  
83           assert not self._finished  
84           self._rate_limiter.reset()
```

>> Issue: [B604:any_other_function_with_shell_equals_true] Function call with shell=True parameter identified, possible security issue.

Severity: Medium Confidence: Low

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b604_any_other_function_with_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/completion.py:120:18

```
119       )  
120       print(BASE_COMPLETION.format(script=script, shell=options.shell))  
121       return SUCCESS
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/blacklists/>

blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
configuration.py:3:0

```
2   import os
3   import subprocess
4   from optparse import Values
```

>> Issue: [B602:subprocess_popen_with_shell_equals_true] subprocess call with
shell=True identified, security issue.

Severity: High Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/
b602_subprocess_popen_with_shell_equals_true.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b602_subprocess_popen_with_shell_equals_true.html)

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
configuration.py:239:12

```
238     try:
239         subprocess.check_call(f'{editor} "{fname}"', shell=True)
240     except FileNotFoundError as e:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
debug.py:66:8

```
65     # Try to find version in debundled module info.
66     assert module.__file__ is not None
67     env = get_environment([os.path.dirname(module.__file__)])
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
download.py:143:16

```
142         if req.satisfied_by is None:
143             assert req.name is not None
144             preparer.save_linked_requirement(req)
```

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/install.py:536:16

```
535         item = f"{item}-{installed_dist.version}"
536     except Exception:
537         pass
538     items.append(item)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/install.py:565:12

```
564     if options.target_dir:
565         assert target_temp_dir
566         self._handle_target_dir(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/install.py:654:12

```
653     else:
654         assert resolver_variant == "2020-resolver"
655         parts.append(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
install.py:755:4
754     # If we are here, user installs have not been explicitly requested/avoided
755     assert use_user_site is None
756
```

>> Issue: [B411:blacklist] Using xmlrpc.client to parse untrusted XML data is known to be vulnerable to XML attacks. Use defusedxml.xmlrpc.monkey_patch() function to monkey-patch xmlrpclib and mitigate XML vulnerabilities.

Severity: High Confidence: High

CWE: CWE-20 (<https://cwe.mitre.org/data/definitions/20.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b411-import-xmlrpclib

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
search.py:5:0

```
4     import textwrap
5     import xmlrpc.client
6     from collections import OrderedDict
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
search.py:84:8

```
83         raise CommandError(message)
84         assert isinstance(hits, list)
85         return hits
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/
wheel.py:188:12

```
187         for req in build_successes:
188             assert req.link and req.link.is_wheel
189             assert req.local_file_path
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/commands/

wheel.py:189:12

```
188         assert req.link and req.link.is_wheel
189         assert req.local_file_path
190         # copy from cache to target directory
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

configuration.py:130:8

```
129         """Returns the file with highest priority in configuration"""
130         assert self.load_only is not None, "Need to be specified a file to be
editing"
131
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

configuration.py:160:8

```
159
160         assert self.load_only
161         fname, parser = self._get_parser_to_modify()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/
configuration.py:180:8

179

180 assert self.load_only

181 if key not in self._config[self.load_only]:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/
configuration.py:356:8

355 # Determine which parser to modify

356 assert self.load_only

357 parsers = self._parsers[self.load_only]

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/distributions/
installed.py:14:8

13 def get_metadata_distribution(self) -> BaseDistribution:

14 assert self.req.satisfied_by is not None, "not actually installed"

15 return self.req.satisfied_by

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/distributions/
sdist.py:53:12

52 pyproject_requires = self.req.pyproject_requires

53 assert pyproject_requires is not None

54 conflicting, missing = self.req.build_env.check_requirements(

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/distributions/

sdist.py:67:8

```
66         pyproject_requires = self.req.pyproject_requires
```

```
67         assert pyproject_requires is not None
```

```
68
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/distributions/

sdist.py:93:12

```
92         backend = self.req.pep517_backend
```

```
93         assert backend is not None
```

```
94         with backend.subprocess_runner(runner):
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/distributions/

sdist.py:103:12

```
102        backend = self.req.pep517_backend
```

```
103        assert backend is not None
```

```
104        with backend.subprocess_runner(runner):
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/distributions/

wheel.py:23:8

```
22         """
```

```
23         assert self.req.local_file_path, "Set as part of preparation during
```

download"

```
24         assert self.req.name, "Wheels are never unnamed"
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/distributions/
wheel.py:24:8

```
23         assert self.req.local_file_path, "Set as part of preparation during  
download"
```

```
24         assert self.req.name, "Wheels are never unnamed"
```

```
25         wheel = FilesystemWheel(self.req.local_file_path)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/exceptions.py:87:12

```
86         if reference is None:
```

```
87             assert hasattr(self, "reference"), "error reference not provided!"
```

```
88             reference = self.reference
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/exceptions.py:89:8

```
88         reference = self.reference
```

```
89         assert _is_kebab_case(reference), "error reference must be kebab-  
case!"
```

```
90
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/exceptions.py:665:12

```
664     else:
665         assert self.error is not None
666         message_part = f".\n{self.error}\n"
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/index/

collector.py:193:8

```
192     def __init__(self, page: "IndexContent") -> None:
193         assert page.cache_link_parsing
194         self.page = page
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/index/

package_finder.py:364:8

```
363         """
364         assert set(applicable_candidates) <= set(candidates)
365
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/index/

package_finder.py:367:12

```
366     if best_candidate is None:
367         assert not applicable_candidates
368     else:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/index/

package_finder.py:369:12

```
368         else:
369             assert best_candidate in applicable_candidates
370
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/index/

package_finder.py:543:16

```
542         match = re.match(r"^(d+)(xx)$", wheel.build_tag)
543         assert match is not None, "guaranteed by filename validation"
544         build_tag_groups = match.groups()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/index/

package_finder.py:847:16

```
846         for candidate in file_candidates:
847             assert candidate.link.url # we need to have a URL
848             try:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/locations/

_distutils.py:67:4

```
66     obj = d.get_command_obj("install", create=True)
67     assert obj is not None
```



```
68     i = cast(distutils_install_command, obj)
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be  
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/locations/  
_distutils.py:72:4
```

```
71     # ideally, we'd prefer a scheme class that has no side-effects.  
72     assert not (user and prefix), f"user={user} prefix={prefix}"  
73     assert not (home and prefix), f"home={home} prefix={prefix}"
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be  
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/locations/  
_distutils.py:73:4
```

```
72     assert not (user and prefix), f"user={user} prefix={prefix}"  
73     assert not (home and prefix), f"home={home} prefix={prefix}"  
74     ixuser = user or i.user
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be  
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/metadata/  
pkg_resources.py:88:12
```

```
87         else:  
88             assert dist_dir.endswith(".dist-info")  
89             dist_cls = pkg_resources.DistInfoDistribution
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be  
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/models/
direct_url.py:60:4
59     )
60     assert infos[0] is not None
61     return infos[0]
```

```
-----
>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: 'git'
Severity: Low Confidence: Medium
CWE: CWE-259 (https://cwe.mitre.org/data/definitions/259.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/
b105_hardcoded_password_string.html
Location: ./venv/lib/python3.11/site-packages/pip/_internal/models/
direct_url.py:175:29
174         and self.info.vcs == "git"
175         and user_pass == "git"
176     ):
-----
```

```
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_internal/models/
installation_report.py:15:8
14     def _install_req_to_dict(cls, ireq: InstallRequirement) -> Dict[str, Any]:
15         assert ireq.download_info, f"No download_info for {ireq}"
16         res = {
-----
```

```
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_internal/models/link.py:70:8
69     def __post_init__(self) -> None:
70         assert self._hash_re.match(f"{self.name}={self.value}")
71
-----
```

```
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
```

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/models/link.py:329:8

```
328     name = urllib.parse.unquote(name)
329     assert name, f"URL {self._url!r} produced no filename"
330     return name
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/auth.py:9:0

```
8     import shutil
9     import subprocess
10    import urllib.parse
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/auth.py:123:14

```
122     env["PYTHONIOENCODING"] = "utf-8"
123     res = subprocess.run(
124         cmd,
125         stdin=subprocess.DEVNULL,
126         capture_output=True,
127         env=env,
128     )
129     if res.returncode:
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/plugins/>

b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/

auth.py:142:14

```
141     env["PYTHONIOENCODING"] = "utf-8"
142     res = subprocess.run(cmd, input=input_, env=env)
143     res.check_returncode()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/

auth.py:322:8

```
321
322     assert (
323         # Credentials were found
324         (username is not None and password is not None)
325         # Credentials were not found
326         or (username is None and password is None)
327     ), f"Could not load credentials from url: {original_url}"
328
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/

auth.py:435:8

```
434     keyring = get_keyring_provider()
435     assert not isinstance(
436         keyring, KeyRingNullProvider
437     ), "should never reach here without keyring"
438
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/
cache.py:38:8

```
37     def __init__(self, directory: str) -> None:
38         assert directory is not None, "Cache directory must not be None."
39         super().__init__()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/
download.py:136:12

```
135     except NetworkConnectionError as e:
136         assert e.response is not None
137         logger.critical(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/
download.py:170:16

```
169     except NetworkConnectionError as e:
170         assert e.response is not None
171         logger.critical(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/
lazy_wheel.py:54:8

```
53     raise_for_status(head)
54     assert head.status_code == 200
55     self._session, self._url, self._chunk_size = session, url, chunk_size
```

>> Issue: [B404:blacklist] Consider possible security implications associated with

the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/session.py:14:0

```
13 import shutil
```

```
14 import subprocess
```

```
15 import sys
```

>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial executable path

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/session.py:182:27

```
181     try:
```

```
182         rustc_output = subprocess.check_output(
```

```
183             ["rustc", "--version"], stderr=subprocess.STDOUT, timeout=0.5
```

```
184         )
```

```
185     except Exception:
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/session.py:182:27

```
181     try:
```

```
182         rustc_output = subprocess.check_output(
```

```
183             ["rustc", "--version"], stderr=subprocess.STDOUT, timeout=0.5
```

```
184         )
```

```
185     except Exception:
```

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html
Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/session.py:185:8
184)
185 except Exception:
186 pass
187 else:

>> Issue: [B411:blacklist] Using xmlrpc.client to parse untrusted XML data is known to be vulnerable to XML attacks. Use defusedxml.xmlrpc.monkey_patch() function to monkey-patch xmlrpclib and mitigate XML vulnerabilities.

Severity: High Confidence: High
CWE: CWE-20 (<https://cwe.mitre.org/data/definitions/20.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b411-import-xmlrpclib
Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/xmlrpc.py:6:0
5 import urllib.parse
6 import xmlrpc.client
7 from typing import TYPE_CHECKING, Tuple

>> Issue: [B411:blacklist] Using _HostType to parse untrusted XML data is known to be vulnerable to XML attacks. Use defusedxml.xmlrpc.monkey_patch() function to monkey-patch xmlrpclib and mitigate XML vulnerabilities.

Severity: High Confidence: High
CWE: CWE-20 (<https://cwe.mitre.org/data/definitions/20.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b411-import-xmlrpclib
Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/xmlrpc.py:14:4
13 if TYPE_CHECKING:
14 from xmlrpc.client import _HostType, _Marshallable
15

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/
xmlrpc.py:39:8

```
38     ) -> Tuple["_Marshallable", ...]:  
39         assert isinstance(host, str)  
40         parts = (selfx_scheme, host, handler, None, None, None)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/network/
xmlrpc.py:54:12

```
53         except NetworkConnectionError as exc:  
54             assert exc.response  
55             logger.critical(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/build/
build_tracker.py:37:16

```
36         else:  
37             assert isinstance(original_value, str) # for mypy  
38             target[name] = original_value
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/build/
build_tracker.py:79:8

```
78  
79         assert req.link  
80         # Get the file to write information about this requirement.
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/build/build_tracker.py:95:8

```
94         # If we're here, req should really not be building already.
95         assert req not in self._entries
96
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/build/build_tracker.py:107:8

```
106
107     assert req.link
108     # Delete the created file and the corresponding entries.
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/build/wheel.py:22:4

```
21     """
22     assert metadata_directory is not None
23     try:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/build/wheel_editable.py:22:4

```
21     """
22     assert metadata_directory is not None
```

23 try:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

freeze.py:159:4

```
158     editable_project_location = dist.editable_project_location
```

```
159     assert editable_project_location
```

```
160     location =
```

```
os.path.normcase(os.path.abspath(editable_project_location))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/install/

wheel.py:99:4

```
98     # XXX RECORD hashes will need to be updated
```

```
99     assert os.path.isfile(path)
```

```
100
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/install/

wheel.py:618:24

```
617                    pyc_path = pyc_output_path(path)
```

```
618                    assert os.path.exists(pyc_path)
```

```
619                    pyc_record_path = cast(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:77:4

```
76     vcs_backend = vcs.get_backend_for_scheme(link.scheme)
77     assert vcs_backend is not None
78     vcs_backend.unpack(location, url=hide_url(link.url), verbosity=verbosity)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:158:4

```
157
158     assert not link.is_existing_dir()
159
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:290:8

```
289         return
290         assert req.source_dir is None
291         if req.link.is_existing_dir():
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:373:8

```
372         return None
373         assert req.req is not None
374         logger.info(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:449:12

```
448     for req in partially_downloaded_reqs:
449         assert req.link
450         links_to_fully_download[req.link] = req
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:470:8

```
469     """Prepare a requirement to be obtained from req.link."""
470     assert req.link
471     self._log_preparing_link(req)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:526:8

```
525     ) -> BaseDistribution:
526     assert req.link
527     link = req.link
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:559:12

```
558     # prepare_editable_requirement).
```

```
559         assert not req.editable
560         req.download_info = direct_url_from_link(link, req.source_dir)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:587:8

```
586     def save_linked_requirement(self, req: InstallRequirement) -> None:
587         assert self.download_dir is not None
588         assert req.link is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:588:8

```
587         assert self.download_dir is not None
588         assert req.link is not None
589         link = req.link
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:617:8

```
616         """Prepare an editable requirement."""
617         assert req.editable, "cannot prepare a non-editable req as editable"
618
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:630:12

```
629         req.update_editable()
630         assert req.source_dir
631         req.download_info =
direct_url_for_editable(req.unpacked_source_directory)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:651:8

```
650         """Prepare an already-installed requirement."""
651         assert req.satisfied_by, "req should have been satisfied but isn't"
652         assert skip_reason is not None, (
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/operations/

prepare.py:652:8

```
651         assert req.satisfied_by, "req should have been satisfied but isn't"
652         assert skip_reason is not None, (
653             "did not get skip reason skipped but req.satisfied_by "
654             "is set to {}".format(req.satisfied_by)
655         )
656         logger.info(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/pyproject.py:104:4

```
103     # At this point, we know whether we're going to use PEP 517.
```

```
104     assert use_pep517 is not None
```

```
-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/pyproject.py:129:4
```

```
128     # specified a backend, though.
129     assert build_system is not None
130
```

```
-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/__init__.py:33:8
```

```
32     for req in requirements:
33         assert req.name, f"invalid to-be-installed requirement: {req}"
34         yield req.name, req
```

```
-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_file.py:177:4
```

```
176
177     assert line.is_requirement
178
```

```
-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_file.py:466:16
```

```
465         new_line.append(line)
466         assert primary_line_number is not None
```

467 yield primary_line_number, "".join(new_line)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_file.py:478:8

```
477     if new_line:
478         assert primary_line_number is not None
479         yield primary_line_number, "".join(new_line)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_install.py:95:8

```
94     ) -> None:
95         assert req is None or isinstance(req, Requirement), req
96         self.req = req
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_install.py:110:12

```
109     if self.editable:
110         assert link
111         if link.is_file:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/


```
req_install.py:239:8
238         return False
239     assert self.pep517_backend
240     with self.build_env:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

```
req_install.py:320:8
319         ) -> str:
320         assert build_dir is not None
321         if self._temp_build_dir is not None:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

```
req_install.py:322:12
321         if self._temp_build_dir is not None:
322             assert self._temp_build_dir.path
323             return self._temp_build_dir.path
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

```
req_install.py:362:8
361         """Set requirement after generating metadata."""
362         assert self.req is None
363         assert self.metadata is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:363:8

```
362     assert self.req is None
363     assert self.metadata is not None
364     assert self.source_dir is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:364:8

```
363     assert self.metadata is not None
364     assert self.source_dir is not None
365
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:452:8

```
451     def setup_py_path(self) -> str:
452         assert self.source_dir, f"No source dir for {self}"
453         setup_py = os.path.join(self.unpacked_source_directory, "setup.py")
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:459:8

```
458     def setup_cfg_path(self) -> str:
459         assert self.source_dir, f"No source dir for {self}"
460         setup_cfg = os.path.join(self.unpacked_source_directory, "setup.cfg")
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_install.py:466:8

```
465     def pyproject_toml_path(self) -> str:
466         assert self.source_dir, f"No source dir for {self}"
467         return make_pyproject_path(self.unpacked_source_directory)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_install.py:523:8

```
522         """
523         assert self.source_dir
524         details = self.name or f"from {self.link}"
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_install.py:527:12

```
526         if self.use_pep517:
527             assert self.pep517_backend is not None
528             if (
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:581:8

```
580     def assert_source_matches_version(self) -> None:
```

```
581         assert self.source_dir
```

```
582         version = self.metadata["version"]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:628:8

```
627         return
```

```
628         assert self.editable
```

```
629         assert self.source_dir
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:629:8

```
628         assert self.editable
```

```
629         assert self.source_dir
```

```
630         if self.link.scheme == "file":
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:636:8

```
635         # So here, if it's neither a path nor a valid VCS URL, it's a bug.
```

```
636         assert vcs_backend, f"Unsupported VCS URL {self.link.url}"
```

```
637         hidden_url = hide_url(self.link.url)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:656:8

```
655         """
```

```
656         assert self.req
```

```
657         dist = get_default_environment().get_distribution(self.req.name)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:669:12

```
668     def _clean_zip_name(name: str, prefix: str) -> str:
```

```
669         assert name.startswith(
```

```
670             prefix + os.path.sep
```

```
671         ), f"name {name!r} doesn't start with prefix {prefix!r}"
```

```
672         name = name[len(prefix) + 1 :]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:685:8

```
684         """
```

```
685         assert self.source_dir
```

```
686         if build_dir is None:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/

req_install.py:785:12

```
784         if self.is_wheel:
```

```
785     assert self.local_file_path
786     direct_url = None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_set.py:42:8

```
41     def add_unnamed_requirement(self, install_req: InstallRequirement) ->
None:
```

```
42         assert not install_req.name
```

```
43         self.unnamed_requirements.append(install_req)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/req_set.py:46:8

```
45     def add_named_requirement(self, install_req: InstallRequirement) -> None:
```

```
46         assert install_req.name
```

```
47
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/
req_uninstall.py:69:4

```
68     location = dist.location
```

```
69     assert location is not None, "not installed"
```

```
70
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_internal/req/
req_uninstall.py:535:12
534         normalized_link_pointer = normalize_path(link_pointer)
535         assert os.path.samefile(
536             normalized_link_pointer, normalized_dist_location
537         ), (
538             f"Egg-link {link_pointer} does not match installed location of "
539             f"{dist.raw_name} (at {dist_location})"
540         )
541         paths_to_remove.add(develop_egg_link)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/legacy/
resolver.py:135:8

```
134         super().__init__()
135         assert upgrade_strategy in self._allowed_strategies
136
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/legacy/
resolver.py:240:8

```
239         # This next bit is really a sanity check.
240         assert (
241             not install_req.user_supplied or parent_req_name is None
242         ), "a user supplied req shouldn't have a parent"
243
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/legacy/

```
resolver.py:319:12
318         else:
319             assert self.upgrade_strategy == "only-if-needed"
320             return req.user_supplied or req.constraint
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/legacy/

resolver.py:454:8

```
453         # so it must be None here.
454         assert req.satisfied_by is None
455         skip_reason = self._check_skip_installed(req)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/legacy/

resolver.py:543:16

```
542         # provided by the user.
543         assert req_to_install.user_supplied
544         self._add_requirement_to_set(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/

candidates.py:56:4

```
55     ) -> InstallRequirement:
56     assert not template.editable, "template is editable"
57     if template.req:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/candidates.py:83:4

82) -> InstallRequirement:

83 assert template.editable, "template not editable"

84 return install_req_from_editable(

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/candidates.py:273:8

272 ireq = make_install_req_from_link(link, template)

273 assert ireq.link == link

274 if ireq.link.is_wheel and not ireq.link.is_file:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/candidates.py:277:12

276 wheel_name = canonicalize_name(wheel.name)

277 assert name == wheel_name, f"{name!r} != {wheel_name!r} for wheel"

278 # Version may not be present for PEP 508 direct URLs

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/candidates.py:281:16

280 wheel_version = Version(wheel.version)

281 assert version == wheel_version, "{!r} != {!r} for wheel {}".format(

282 version, wheel_version, name

283)
284

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/factory.py:244:8

```
243         template = ireqs[0]
244         assert template.req, "Candidates found on index must be PEP 508"
245         name = canonicalize_name(template.req.name)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/factory.py:249:12

```
248         for ireq in ireqs:
249             assert ireq.req, "Candidates found on index must be PEP 508"
250             specifier &= ireq.req.specifier
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/factory.py:344:12

```
343         base_cand = as_base_candidate(lookup_cand)
344         assert base_cand is not None, "no extras here"
345         yield self._make_extras_candidate(base_cand, extras)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/factory.py:484:16

```
483         continue
484         assert ireq.name, "Constraint must be named"
485         name = canonicalize_name(ireq.name)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/factory.py:577:8

```
576     ) -> UnsupportedPythonVersion:
577     assert causes, "Requires-Python error reported with no cause"
578
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/factory.py:636:8

```
635
636     assert e.causes, "Installation error reported with no cause"
637
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/requirements.py:44:8

```
43     def __init__(self, ireq: InstallRequirement) -> None:
44         assert ireq.link is None, "This is a link, not a specifier"
45         self._ireq = ireq
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/requirements.py:59:8

```
58     def project_name(self) -> NormalizedName:
59         assert self._ireq.req, "Specifier-backed ireq is always PEP 508"
60         return canonicalize_name(self._ireq.req.name)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/requirements.py:84:8

```
83     def is_satisfied_by(self, candidate: Candidate) -> bool:
84         assert candidate.name == self.name, (
85             f"Internal issue: Candidate is not for this requirement "
86             f"{candidate.name} vs {self.name}"
87         )
88         # We can safely always allow prereleases here since PackageFinder
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/requirements.py:91:8

```
90     # prerelease candidates if the user does not expect them.
91     assert self._ireq.req, "Specifier-backed ireq is always PEP 508"
92     spec = self._ireq.req.specifier
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/requirements.py:129:8

```
128     def is_satisfied_by(self, candidate: Candidate) -> bool:
129         assert candidate.name == self._candidate.name, "Not Python candidate"
130         # We can safely always allow prereleases here since PackageFinder
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/resolver.py:53:8

```
52         super().__init__()
53         assert upgrade_strategy in self._allowed_strategies
54
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/resolver.py:179:8

```
178         """
179         assert self._result is not None, "must call resolve() first"
180
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/resolution/resolvelib/resolver.py:280:4

```
279     difference = set(weights.keys()).difference(requirement_keys)
280     assert not difference, difference
281
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

direct_url_helpers.py:23:8

```
22     else:
23         assert isinstance(direct_url.info, DirInfo)
24         requirement += direct_url.url
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

direct_url_helpers.py:44:8

```
43         vcs_backend = vcs.get_backend_for_scheme(link.scheme)
44         assert vcs_backend
45         url, requested_revision, _ = vcs_backend.get_url_rev_and_auth(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

direct_url_helpers.py:55:12

```
54         # with the VCS checkout.
55         assert requested_revision
56         commit_id = requested_revision
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

direct_url_helpers.py:61:12

```
60         # which we can inspect to find out the commit id.
61         assert source_dir
```

62 commit_id = vcs_backend.get_revision(source_dir)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
encoding.py:31:12

```
30           result = ENCODING_RE.search(line)
31           assert result is not None
32           encoding = result.groups()[0].decode("ascii")
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
filesystem.py:22:4

```
21
22     assert os.path.isabs(path)
23
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/
blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
filesystem.py:100:34

```
99     for _ in range(10):
100         name = basename + "".join(random.choice(alphabet) for _ in range(6))
101         file = os.path.join(path, name)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/logging.py:157:8

```
156     # If we are given a diagnostic error to present, present it with
indentation.
```

```
157     assert isinstance(record.args, tuple)
```

```
158     if record.msg == "[present-rich] %s" and len(record.args) == 1:
```

```
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
```

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

logging.py:160:12

```
159         rich_renderable = record.args[0]
```

```
160         assert isinstance(
```

```
161             rich_renderable, (ConsoleRenderable, RichCast, str)
```

```
162             ), f"{rich_renderable} is not rich-console-renderable"
```

```
163
```

```
>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: "
```

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/plugins/>

b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/misc.py:494:19

```
493     user = "*****"
```

```
494     password = ""
```

```
495     else:
```

```
>> Issue: [B105:hardcoded_password_string] Possible hardcoded password:
```

```
!.*****!
```

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/plugins/>

b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/misc.py:497:19

```
496     user = urllib.parse.quote(user)
```

```
497     password = ".*****"
```

```
498     return "{user}{password}@{netloc}".format(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
setuptools_build.py:113:4

112) -> List[str]:

113 assert not (use_user_site and prefix)

114

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
setuptools_build.py:164:4

163) -> List[str]:

164 assert not (use_user_site and prefix)

165 assert not (use_user_site and root)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
setuptools_build.py:165:4

164 assert not (use_user_site and prefix)

165 assert not (use_user_site and root)

166

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
subprocess.py:4:0
3 import shlex
4 import subprocess
5 from typing import (

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check
for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/
b603_subprocess_without_shell_equals_true.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html)

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
subprocess.py:141:15

```
140     try:
141         proc = subprocess.Popen(
142             # Convert HiddenText objects to the underlying str.
143             reveal_command_args(cmd),
144             stdin=subprocess.PIPE,
145             stdout=subprocess.PIPE,
146             stderr=subprocess.STDOUT if not stdout_only else subprocess.PIPE,
147             cwd=cwd,
148             env=env,
149             errors="backslashreplace",
150         )
151     except Exception as exc:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/
subprocess.py:161:8

```
160     if not stdout_only:
161         assert proc.stdout
162         assert proc.stdin
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

subprocess.py:162:8

```
161         assert proc.stdout
```

```
162         assert proc.stdin
```

```
163         proc.stdin.close()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

subprocess.py:176:16

```
175         if use_spinner:
```

```
176             assert spinner
```

```
177             spinner.spin()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

subprocess.py:199:8

```
198     if use_spinner:
```

```
199         assert spinner
```

```
200         if proc_had_error:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

temp_dir.py:133:12

```
132     if globally_managed:
```

```
133         assert _tempdir_manager is not None
```

```
134         _tempdir_manager.enter_context(self)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

temp_dir.py:138:8

```
137     def path(self) -> str:
```

```
138         assert not self._deleted, f"Attempted to access deleted path:
```

```
{self._path}"
```

```
139         return self._path
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/

unpacking.py:216:16

```
215         ensure_dir(os.path.dirname(path))
```

```
216         assert fp is not None
```

```
217         with open(path, "wb") as destfp:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/utils/urls.py:30:4

```
29     """
```

```
30     assert url.startswith(
```

```
31         "file:"
```

```
32     ), f"You can only turn file: urls into filenames (not {url!r})"
```

```
33
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/vcs/git.py:214:8

```
213     # rev return value is always non-None.
```

```
214     assert rev is not None
```

```
215
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/vcs/git.py:477:12

```
476     if "://" not in url:
```

```
477         assert "file:" not in url
```

```
478         url = url.replace("git+", "git+ssh://")
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/vcs/
subversion.py:65:16

```
64     if base == location:
```

```
65         assert dirurl is not None
```

```
66         base = dirurl + "/" # save the root url
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/vcs/
subversion.py:169:16

```
168     match = _svn_info_xml_url_re.search(xml)
```

```
169     assert match is not None
```

```
170     url = match.group(1)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/wheel_builder.py:84:4

83

84 assert check_bdist_wheel is not None

85 if not check_bdist_wheel(req):

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

wheel_builder.py:132:8

131 # unless it points to an immutable commit hash.

132 assert not req.editable

133 assert req.source_dir

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

wheel_builder.py:133:8

132 assert not req.editable

133 assert req.source_dir

134 vcs_backend = vcs.get_backend_for_scheme(req.link.scheme)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

wheel_builder.py:135:8

134 vcs_backend = vcs.get_backend_for_scheme(req.link.scheme)

135 assert vcs_backend

136 if vcs_backend.is_immutable_rev_checkout(req.link.url, req.source_dir):

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

wheel_builder.py:140:4

139

140 assert req.link

141 base, ext = req.link.splitext()

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

wheel_builder.py:157:4

156 cache_available = bool(wheel_cache.cache_dir)

157 assert req.link

158 if cache_available and _should_cache(req):

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

wheel_builder.py:241:8

240 with TempDirectory(kind="wheel") as temp_dir:

241 assert req.name

242 if req.use_pep517:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

```
wheel_builder.py:243:12
242         if req.use_pep517:
243             assert req.metadata_directory
244             assert req.pep517_backend
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

```
wheel_builder.py:244:12
243         assert req.metadata_directory
244         assert req.pep517_backend
245         if global_options:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

```
wheel_builder.py:345:12
344         for req in requirements:
345             assert req.name
346             cache_dir = _get_cache_dir(req, wheel_cache)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_internal/

```
wheel_builder.py:365:16
364             req.local_file_path = req.link.file_path
365             assert req.link.is_wheel
366             build_successes.append(req)
```

>> Issue: [B403:blacklist] Consider possible security implications associated with cPickle module.

Severity: Low Confidence: High
CWE: CWE-502 (<https://cwe.mitre.org/data/definitions/502.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b403-import-pickle
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/cachecontrol/compat.py:12:4

```
11     try:
12         import cPickle as pickle
13     except ImportError:
```

>> Issue: [B403:blacklist] Consider possible security implications associated with pickle module.

Severity: Low Confidence: High
CWE: CWE-502 (<https://cwe.mitre.org/data/definitions/502.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b403-import-pickle
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/cachecontrol/compat.py:14:4

```
13     except ImportError:
14         import pickle
15
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/cachecontrol/serialize.py:158:8

```
157     def _loads_v2(self, request, data, body_file=None):
158         assert body_file is None
159         try:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/eucjpprober.py:59:8

```
58     def feed(self, byte_str: Union[bytes, bytearray]) -> ProbingState:
```

```
59     assert self.coding_sm is not None
60     assert self.distribution_analyzer is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

eucjprober.py:60:8

```
59     assert self.coding_sm is not None
60     assert self.distribution_analyzer is not None
61
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

eucjprober.py:98:8

```
97     def get_confidence(self) -> float:
98         assert self.distribution_analyzer is not None
99
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

hebrewprober.py:273:8

```
272     def charset_name(self) -> str:
273         assert self._logical_prober is not None
274         assert self._visual_prober is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

hebrewprober.py:274:8

273 assert self._logical_prober is not None

274 assert self._visual_prober is not None

275

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

hebrewprober.py:308:8

307 def state(self) -> ProbingState:

308 assert self._logical_prober is not None

309 assert self._visual_prober is not None

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

hebrewprober.py:309:8

308 assert self._logical_prober is not None

309 assert self._visual_prober is not None

310

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

mbcharsetprober.py:58:8

57 def feed(self, byte_str: Union[bytes, bytearray]) -> ProbingState:

58 assert self.coding_sm is not None

59 assert self.distribution_analyzer is not None

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

mbcharsetprober.py:59:8

```
58         assert self.coding_sm is not None
```

```
59         assert self.distribution_analyzer is not None
```

```
60
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

mbcharsetprober.py:94:8

```
93     def get_confidence(self) -> float:
```

```
94         assert self.distribution_analyzer is not None
```

```
95         return self.distribution_analyzer.get_confidence()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

sjisprober.py:59:8

```
58     def feed(self, byte_str: Union[bytes, bytearray]) -> ProbingState:
```

```
59         assert self.coding_sm is not None
```

```
60         assert self.distribution_analyzer is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

sjisprober.py:60:8

```
59         assert self.coding_sm is not None
```

```
60     assert self.distribution_analyzer is not None
61
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

sjisprober.py:101:8

```
100     def get_confidence(self) -> float:
101         assert self.distribution_analyzer is not None
102
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/chardet/

universaldetector.py:319:16

```
318         charset_name = max_prober.charset_name
319         assert charset_name is not None
320         lower_charset_name = charset_name.lower()
```

>> Issue: [B411:blacklist] Using xmlrpclib to parse untrusted XML data is known to be vulnerable to XML attacks. Use defusedxml.xmlrpc.monkey_patch() function to monkey-patch xmlrpclib and mitigate XML vulnerabilities.

Severity: High Confidence: High

CWE: CWE-20 (<https://cwe.mitre.org/data/definitions/20.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b411-import-xmlrpclib)

[blacklist_imports.html#b411-import-xmlrpclib](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b411-import-xmlrpclib)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/compat.py:42:4

```
41     import httpplib
42     import xmlrpclib
43     import Queue as queue
```

>> Issue: [B411:blacklist] Using xmlrpc.client to parse untrusted XML data is known to be vulnerable to XML attacks. Use defusedxml.xmlrpc.monkey_patch() function to monkey-patch xmlrpclib and mitigate XML vulnerabilities.

Severity: High Confidence: High

CWE: CWE-20 (<https://cwe.mitre.org/data/definitions/20.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b411-import-xmlrpclib

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/compat.py:83:4

```
82     import urllib.request as urllib2
83     import xmlrpc.client as xmlrpclib
84     import queue
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/compat.py:619:8

```
618     def cache_from_source(path, debug_override=None):
619         assert path.endswith('.py')
620         if debug_override is None:
```

>> Issue: [B324:hashlib] Use of weak MD5 hash for security. Consider usedforsecurity=False

Severity: High Confidence: High

CWE: CWE-327 (<https://cwe.mitre.org/data/definitions/327.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b324_hashlib.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/database.py:1024:19

```
1023         f.close()
1024         return hashlib.md5(content).hexdigest()
1025
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/index.py:11:0

```
10     import shutil
11     import subprocess
12     import tempfile
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/index.py:57:25

```
56         try:
57             rc = subprocess.check_call([s, '--version'], stdout=sink,
58                                     stderr=sink)
59             if rc == 0:
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/index.py:192:12

```
191     stderr = []
192     p = subprocess.Popen(cmd, **kwargs)
193     # We don't use communicate() here because we may need to
```

>> Issue: [B324:hashlib] Use of weak MD5 hash for security. Consider usedforsecurity=False

Severity: High Confidence: High

CWE: CWE-327 (<https://cwe.mitre.org/data/definitions/327.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b324_hashlib.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/index.py:268:21

```
267     file_data = fxread()
268     md5_digest = hashlib.md5(file_data).hexdigest()
269     sha256_digest = hashlib.sha256(file_data).hexdigest()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

locators.py:950:8

```
949     super(DistPathLocator, self).__init__(**kwargs)
950     assert isinstance(distpath, DistributionPath)
951     self.distpath = distpath
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

manifest.py:113:16

```
112         parent, _ = os.path.split(d)
113         assert parent not in ('', '/')
114         add_dir(dirs, parent)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

manifest.py:339:16

```
338         if _PYTHON_VERSION > (3, 2):
339             assert pattern_re.startswith(start) and pattern_re.endswith(end)
340         else:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

manifest.py:351:16

```
350         prefix_re = self._glob_to_re(prefix)
351         assert prefix_re.startswith(start) and prefix_re.endswith(end)
352         prefix_re = prefix_re[len(start): len(prefix_re) - len(end)]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

markers.py:72:12

```
71         else:
72             assert isinstance(expr, dict)
73             op = expr['op']
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

metadata.py:938:8

```
937     def _from_legacy(self):
938         assert self._legacy and not self._data
939         result = {
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

metadata.py:1001:8

```
1000
1001     assert self._data and not self._legacy
1002     result = LegacyMetadata()
```

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/

scripts.py:285:20

```
284             os.remove(dfname)
285             except Exception:
286                 pass # still in use - ignore error
```

287 else:

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:21:0

```
20     ssl = None
21     import subprocess
22     import sys
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:277:8

```
276     path = path.replace(os.path.sep, '/')
277     assert path.startswith(root)
278     return path[len(root):].lstrip('/')
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:363:16

```
362         entry = get_export_entry(s)
363         assert entry is not None
364         entries[k] = entry
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:390:12

```
389     entry = get_export_entry(s)
```

```
390         assert entry is not None
391         #entry.dist = self
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:537:8

```
536     def copy_stream(self, instream, outfile, encoding=None):
537         assert not os.path.isdir(outfile)
538         self.ensure_dir(os.path.dirname(outfile))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:597:20

```
596         else:
597             assert path.startswith(prefix)
598             diagpath = path[len(prefix):]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:644:8

```
643         """
644         assert self.record
645         result = self.files_written, self.dirs_created
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:661:20

```
660         if flist:
```

```
661         assert flist == ['__pycache__']
662         sd = os.path.join(d, flist[0])
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:837:4

```
836         break
837     assert i is not None
838     return result
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1089:8

```
1088     def add(self, pred, succ):
1089         assert pred != succ
1090         self._preds.setdefault(succ, set()).add(pred)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1094:8

```
1093     def remove(self, pred, succ):
1094         assert pred != succ
1095         try:
```

>> Issue: [B202:tarfile_unsafe_members] tarfile.extractall used without any validation. Please check and discard dangerous members.

Severity: High Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b202_tarfile_unsafe_members.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1252:8

```
1251         tarinfo.name = tarinfo.name.decode('utf-8')
1252     archive.extractall(dest_dir)
1253
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1283:8

```
1282     def __init__(self, minval=0, maxval=100):
1283         assert maxval is None or maxval >= minval
1284         self.min = self.cur = minval
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1291:8

```
1290         def update(self, curval):
1291             assert self.min <= curval
1292             assert self.max is None or curval <= self.max
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1292:8

```
1291         assert self.min <= curval
1292         assert self.max is None or curval <= self.max
1293         self.cur = curval
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1301:8

```
1300     def increment(self, incr):
1301     assert incr >= 0
1302     self.update(self.cur + incr)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1391:8

```
1390     if len(rich_path_glob) > 1:
1391     assert len(rich_path_glob) == 3, rich_path_glob
1392     prefix, set, suffix = rich_path_glob
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/util.py:1712:12

```
1711     def run_command(self, cmd, **kwargs):
1712     p = subprocess.Popen(cmd, stdout=subprocess.PIPE,
1713                          stderr=subprocess.PIPE, **kwargs)
1714     t1 = threading.Thread(target=self.reader, args=(p.stdout, 'stdout'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/version.py:34:8

```
33     self._parts = parts = self.parse(s)
34     assert isinstance(parts, tuple)
35     assert len(parts) > 0
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/version.py:35:8

```
34     assert isinstance(parts, tuple)
35     assert len(parts) > 0
36
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distlib/
wheel.py:428:16

```
427         break
428         assert distinfo, '.dist-info directory expected, not found'
429
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/
blacklist_imports.html#b404-import-subprocess](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distro/distro.py:37:0

```
36 import shlex
37 import subprocess
38 import sys
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distro/distro.py:640:12

```
639     def __get__(self, obj: Any, owner: Type[Any]) -> Any:
640         assert obj is not None, f"call {self._fname} on an instance"
641         ret = obj.__dict__[self._fname] = self._f(obj)
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distro/distro.py:1161:21
1160 cmd = ("lsb_release", "-a")
1161 stdout = subprocess.check_output(cmd,
stderr=subprocess.DEVNULL)
1162 # Command not found or lsb_release returned error

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distro/distro.py:1198:21
1197 cmd = ("uname", "-rs")
1198 stdout = subprocess.check_output(cmd,
stderr=subprocess.DEVNULL)
1199 except OSError:

>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial executable path

Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distro/distro.py:1209:21
1208 try:
1209 stdout = subprocess.check_output("oslevel",
stderr=subprocess.DEVNULL)
1210 except (OSError, subprocess.CalledProcessError):

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/distro/distro.py:1209:21

```
1208         try:
1209             stdout = subprocess.check_output("oslevel",
1210             stderr=subprocess.DEVNULL)
1210         except (OSError, subprocess.CalledProcessError):
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/msgpack/fallback.py:369:8

```
368     def feed(self, next_bytes):
369         assert self._feeding
370         view = _get_data_from_buffer(next_bytes)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/msgpack/fallback.py:433:12

```
432         break
433         assert isinstance(read_data, bytes)
434         self._buffer += read_data
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/msgpack/fallback.py:617:8

```
616         return self._ext_hook(n, bytes(obj))
617         assert typ == TYPE_IMMEDIATE
618         return obj
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/msgpack/fallback.py:833:16

```
832         data = obj.data
833         assert isinstance(code, int)
834         assert isinstance(data, bytes)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/msgpack/fallback.py:834:16

```
833         assert isinstance(code, int)
834         assert isinstance(data, bytes)
835         L = len(data)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/packaging/_manylinux.py:146:8

```
145     version_string = os.confstr("CS_GNU_LIBC_VERSION")
146     assert version_string is not None
147     _, version = version_string.split()
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/packaging/
_musllinux.py:13:0
12  import struct
13  import subprocess
14  import sys
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/packaging/
_musllinux.py:106:11
105      return None
106      proc = subprocess.run([ld], stderr=subprocess.PIPE,
universal_newlines=True)
107      return _parse_musl_version(proc.stderr)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/packaging/
_musllinux.py:130:4
129      plat = sysconfig.get_platform()
130      assert plat.startswith("linux-"), "not linux"
131
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/packaging/
markers.py:152:4
151
152      assert isinstance(marker, (list, tuple, str))
153
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/packaging/
markers.py:226:8

```
225     for marker in markers:
226         assert isinstance(marker, (list, tuple, str))
227
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/packaging/
markers.py:242:12

```
241     else:
242         assert marker in ["and", "or"]
243         if marker == "or":
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pkg_resources/
__init__.py:1462:12

```
1461     code = compile(source, script_filename, 'exec')
1462         exec(code, namespace, namespace)
1463     else:
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pkg_resources/
__init__.py:1469:12

```
1468         script_code = compile(script_text, script_filename, 'exec')
```

```
1469         exec(script_code, namespace, namespace)
1470
```

```
-----
>> Issue: [B110:try_except_pass] Try, Except, Pass detected.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/
b110_try_except_pass.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/
cmdline.py:522:12
```

```
521         width = shutil.get_terminal_size().columns - 2
522     except Exception:
523         pass
524     argparse.HelpFormatter.__init__(self, prog, indent_increment,
```

```
-----
>> Issue: [B102:exec_used] Use of exec detected.
Severity: Medium Confidence: High
CWE: CWE-78 (https://cwe.mitre.org/data/definitions/78.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102\_exec\_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/formatters/
__init__.py:91:12
```

```
90         with open(filename, 'rb') as f:
91             exec(f.read(), custom_namespace)
92         # Retrieve the class `formattername` from that namespace
```

```
-----
>> Issue: [B404:blacklist] Consider possible security implications associated with
the subprocess module.
```

```
Severity: Low Confidence: High
CWE: CWE-78 (https://cwe.mitre.org/data/definitions/78.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/
blacklist_imports.html#b404-import-subprocess
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/formatters/
img.py:18:0
```

```
17
18     import subprocess
19
```

```
-----
>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial
executable path
Severity: Low Confidence: High
```

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/formatters/img.py:85:15

```
84     def _get_nix_font_path(self, name, style):
85         proc = subprocess.Popen(['fc-list', "%s:style=%s" % (name, style),
'file'],
86                                 stdout=subprocess.PIPE, stderr=None)
87         stdout, _ = proc.communicate()
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/formatters/img.py:85:15

```
84     def _get_nix_font_path(self, name, style):
85         proc = subprocess.Popen(['fc-list', "%s:style=%s" % (name, style),
'file'],
86                                 stdout=subprocess.PIPE, stderr=None)
87         stdout, _ = proc.communicate()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/lexer.py:431:8

```
430     """Preprocess the token component of a token definition."""
431     assert type(token) is _TokenType or callable(token), \
432         'token type must be simple type or callable, not %r' % (token,)
433     return token
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:448:16

```
447         else:
448             assert False, 'unknown new state %r' % new_state
449         elif isinstance(new_state, combined):
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:455:16

```
454         for ystate in new_state:
455             assert ystate != new_state, 'circular state ref %r' % ystate
456             itokens.extend(cls._process_state(unprocessed,
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:463:16

```
462         for ystate in new_state:
463             assert (ystate in unprocessed or
464                     ystate in ('#pop', '#push')), \
465                     'unknown new state ' + ystate
466             return new_state
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:468:12

```
467         else:
468             assert False, 'unknown new state def %r' % new_state
469
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:472:8

```
471     """Preprocess a single state definition."""
472     assert type(state) is str, "wrong state name %r" % state
473     assert state[0] != '#', "invalid state name %r" % state
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:473:8

```
472     assert type(state) is str, "wrong state name %r" % state
473     assert state[0] != '#', "invalid state name %r" % state
474     if state in processed:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:481:16

```
480         # it's a state reference
481         assert tdef != state, "circular state reference %r" % state
482         tokens.extend(cls._process_state(unprocessed, processed,
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:495:12

494

495 assert type(tdef) is tuple, "wrong rule def %r" % tdef

496

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:662:28

661 else:

662 assert False, "wrong state def: %r" % new_state

663 statetokens = tokendefs[statestack[-1]]

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

lexer.py:750:28

749 else:

750 assert False, "wrong state def: %r" % new_state

751 statetokens = tokendefs[ctx.stack[-1]]

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/lexers/

__init__.py:134:12

133 with open(filename, 'rb') as f:

134 exec(f.read(), custom_namespace)

135 # Retrieve the class `lexername` from that namespace

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pygments/

style.py:79:12

78 return text

79 assert False, "wrong color format %r" % text

80

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pyproject_hooks/_impl.py:8:0

7 from os.path import join as pjoin

8 from subprocess import STDOUT, check_call, check_output

9

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pyproject_hooks/_impl.py:59:4

58

59 check_call(cmd, cwd=cwd, env=env)

60

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/pyproject_hooks/_impl.py:71:4

70

```
71     check_output(cmd, cwd=cwd, env=env, stderr=STDOUT)
72
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/
__init__.py:57:4

```
56     urllib3_version = urllib3_version.split(".")
57     assert urllib3_version != ["dev"] # Verify urllib3 isn't installed from git.
58
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/
__init__.py:67:4

```
66     # urllib3 >= 1.21.1, <= 1.26
67     assert major == 1
68     assert minor >= 21
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/
__init__.py:68:4

```
67     assert major == 1
68     assert minor >= 21
69     assert minor <= 26
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/

__init__.py:69:4

```
68     assert minor >= 21
```

```
69     assert minor <= 26
```

```
70
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/

__init__.py:76:8

```
75     # chardet_version >= 3.0.2, < 6.0.0
```

```
76     assert (3, 0, 2) <= (major, minor, patch) < (6, 0, 0)
```

```
77     elif charset_normalizer_version:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/

__init__.py:81:8

```
80     # charset_normalizer >= 2.0.0 < 4.0.0
```

```
81     assert (2, 0, 0) <= (major, minor, patch) < (4, 0, 0)
```

```
82     else:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/

_internal_utils.py:43:4

```
42     """
```

```
43     assert isinstance(u_string, str)
```

```
44     try:
```

```
>> Issue: [B324:hashlib] Use of weak MD5 hash for security. Consider
usedforsecurity=False
Severity: High Confidence: High
CWE: CWE-327 (https://cwe.mitre.org/data/definitions/327.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b324\_hashlib.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/
auth.py:148:23
147             x = x.encode("utf-8")
148             return hashlib.md5(x).hexdigest()
149
```

```
-----
>> Issue: [B324:hashlib] Use of weak SHA1 hash for security. Consider
usedforsecurity=False
Severity: High Confidence: High
CWE: CWE-327 (https://cwe.mitre.org/data/definitions/327.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b324\_hashlib.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/
auth.py:156:23
155             x = x.encode("utf-8")
156             return hashlib.sha1(x).hexdigest()
157
```

```
-----
>> Issue: [B324:hashlib] Use of weak SHA1 hash for security. Consider
usedforsecurity=False
Severity: High Confidence: High
CWE: CWE-327 (https://cwe.mitre.org/data/definitions/327.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b324\_hashlib.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/requests/
auth.py:205:17
204
205     cnonce = hashlib.sha1(s).hexdigest()[:16]
206     if _algorithm == "MD5-SESS":
```

```
-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/_pick.py:13:4
12     """
13     assert values, "1 or more values required"
```

14 for value in values:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/_ratio.py:129:4

```
128     total_ratio = sum(ratios)
129     assert total_ratio > 0, "Sum of ratios must be > 0"
130
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/_win32_console.py:436:8

```
435
436     assert fore is not None
437     assert back is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/_win32_console.py:437:8

```
436     assert fore is not None
437     assert back is not None
438
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/

_win32_console.py:566:8

```
565         """"
566         assert len(title) < 255, "Console title must be less than 255 characters"
567         SetConsoleTitle(title)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:365:12

```
364         if self.type == ColorType.TRUECOLOR:
365             assert self.triplet is not None
366             return self.triplet
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:368:12

```
367         elif self.type == ColorType.EIGHT_BIT:
368             assert self.number is not None
369             return EIGHT_BIT_PALETTE[self.number]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:371:12

```
370         elif self.type == ColorType.STANDARD:
371             assert self.number is not None
372             return theme.ansi_colors[self.number]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:374:12
373 elif self.type == ColorType.WINDOWS:
374 assert self.number is not None
375 return WINDOWS_PALETTE[self.number]

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:377:12

376 else: # self.type == ColorType.DEFAULT:
377 assert self.number is not None
378 return theme.foreground_color if foreground else
theme.background_color

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:493:12

492 number = self.number
493 assert number is not None
494 fore, back = (30, 40) if number < 8 else (82, 92)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:499:12

498 number = self.number
499 assert number is not None
500 fore, back = (30, 40) if number < 8 else (82, 92)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:504:12

```
503     elif _type == ColorType.EIGHT_BIT:
504         assert self.number is not None
505         return ("38" if foreground else "48", "5", str(self.number))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:508:12

```
507     else: # self.standard == ColorStandard.TRUECOLOR:
508         assert self.triplet is not None
509         red, green, blue = self.triplet
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:520:12

```
519     if system == ColorSystem.EIGHT_BIT and self.system ==
ColorSystem.TRUECOLOR:
520         assert self.triplet is not None
521         red, green, blue = self.triplet.normalized
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:542:16

```
541     if self.system == ColorSystem.TRUECOLOR:
542         assert self.triplet is not None
543         triplet = self.triplet
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:545:16

```
544         else: # self.system == ColorSystem.EIGHT_BIT
545             assert self.number is not None
546             triplet = ColorTriplet(xEIGHT_BIT_PALETTE[self.number])
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:553:16

```
552         if self.system == ColorSystem.TRUECOLOR:
553             assert self.triplet is not None
554             triplet = selfxtriplet
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:556:16

```
555         else: # self.system == ColorSystem.EIGHT_BIT
556             assert self.number is not None
557             if self.number < 16:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/color.py:569:4

```
568         """Parse six hex characters in to RGB triplet."""
569         assert len(hex_color) == 6, "must be 6 characters"
570         color = ColorTriplet(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/console.py:1130:8

1129

1130 assert count >= 0, "count must be >= 0"

1131 self.print(NewLine(count))

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/

console.py:1895:12

1894 offset -= 1

1895 assert frame is not None

1896 return frame.f_code.co_filename, frame.f_lineno, frame.f_locals

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/console.py:2117:8

2116 """

2117 assert (

2118 self.record

2119), "To export console contents set record=True in the constructor or instance"

2120

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/console.py:2173:8

2172 """

2173 assert (

2174 self.record

2175), "To export console contents set record=True in the constructor or

instance"

2176 fragments: List[str] = []

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/live.py:65:8

64) -> None:

65 assert refresh_per_second > 0, "refresh_per_second must be > 0"

66 self._renderable = renderable

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/live.py:350:19

349 time.sleep(0.4)

350 if random.randint(0, 10) < 1:

351 console.log(next(examples))

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/live.py:353:21

352 exchange_rate_dict[(select_exchange, exchange)] = 200 / (

353 (random.random() * 320) + 1

354)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/logging.py:136:12
135         exc_type, exc_value, exc_traceback = record.exc_info
136         assert exc_type is not None
137         assert exc_value is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/logging.py:137:12
136         assert exc_type is not None
137         assert exc_value is not None
138         traceback = Traceback.from_exception(
```

>> Issue: [B112:try_except_continue] Try, Except, Continue detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b112_try_except_continue.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/pretty.py:156:16
155         repr_result = method()
156         except Exception:
157             continue # If the method raises, treat it as if it doesn't exist, try
any others
158         if repr_result is not None:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/pretty.py:227:4
226     console = console or get_console()
227     assert console is not None
228
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/pretty.py:232:12

```
231         if value is not None:
232             assert console is not None
233             builtins._ = None # type: ignore[attr-defined]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/pretty.py:531:8

```
530     )
531     assert self.node is not None
532     return self.node.check_length(start_length, max_length)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/pretty.py:537:8

```
536     node = self.node
537     assert node is not None
538     whitespace = self.whitespace
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/pretty.py:539:8

```
538     whitespace = self.whitespace
539     assert node.children
540     if node.key_repr:
```

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/pretty.py:677:12
676 rich_repr_result = obj.__rich_repr__()
677 except Exception:
678 pass
679

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/progress.py:1080:8
1079) -> None:
1080 assert refresh_per_second > 0, "refresh_per_second must be > 0"
1081 self._lock = RLock()

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High
CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/progress.py:1706:15
1705 time.sleep(0.01)
1706 if random.randint(0, 100) < 1:
1707 progress.log(next(examples))

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/prompt.py:214:8
213 ""
214 assert self.choices is not None
215 return value.strip() in self.choices

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/style.py:193:15

```
192     self._link_id = (  
193         f"{randint(0, 999999)}{hash(self._meta)}" if (link or meta) else ""  
194     )
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/style.py:243:28

```
242     style._meta = dumps(meta)  
243     style._link_id = f"{randint(0, 999999)}{hash(style._meta)}"  
244     style._hash = None
```

>> Issue: [B302:blacklist] Deserialization with the marshal module is possibly dangerous.

Severity: Medium Confidence: High

CWE: CWE-502 (<https://cwe.mitre.org/data/definitions/502.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b302-marshal)

[blacklist_calls.html#b302-marshal](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b302-marshal)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/style.py:475:66

```
474     """Get meta information (can not be changed after construction)."""  
475     return {} if self._meta is None else cast(Dict[str, Any], loads(self._meta))  
476
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/style.py:490:28
489 style._link = self._link
490 style._link_id = f"{randint(0, 999999)}" if self._link else ""
491 style._null = False

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/style.py:642:28
641 style._link = self._link
642 style._link_id = f"{randint(0, 999999)}" if self._link else ""
643 style._hash = self._hash

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/style.py:665:28
664 style._link = link
665 style._link_id = f"{randint(0, 999999)}" if link else ""
666 style._hash = None

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/syntax.py:482:20
481 """Split tokens to one per line."""
482 assert lexer # required to make MyPy happy - we know lexer is
not None at this point
483

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/text.py:791:8

```
790         tab_size = self.tab_size
791         assert tab_size is not None
792         result = self.blank_copy()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/text.py:860:8

```
859         """
860         assert len(character) == 1, "Character must be a string of length 1"
861         if count:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/text.py:877:8

```
876         """
877         assert len(character) == 1, "Character must be a string of length 1"
878         if count:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/text.py:893:8

```
892         """
893         assert len(character) == 1, "Character must be a string of length 1"
894         if count:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/text.py:1028:8

```
1027     """
```

```
1028         assert separator, "separator must not be empty"
```

```
1029
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/

traceback.py:244:16

```
243         if not isinstance(suppress_entity, str):
```

```
244             assert (
```

```
245                 suppress_entity.__file__ is not None
```

```
246             ), f"{suppress_entity!r} must be a module with '__file__' attribute"
```

```
247             path = os.path.dirname(suppress_entity.__file__)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/rich/

traceback.py:579:16

```
578         if excluded:
```

```
579             assert exclude_frames is not None
```

```
580             yield Text(
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/six.py:735:8

```
734         _locs_ = _globals_
```

```
735         exec("""exec _code_ in _globals_, _locs_""")
```

```
736
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/tenacity/wait.py:76:39
75 def __call__(self, retry_state: "RetryCallState") -> float:
76 return self.wait_random_min + (random.random() *
(self.wait_random_max - self.wait_random_min))
77

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/tenacity/wait.py:198:15
197 high = super().__call__(retry_state=retry_state)
198 return random.uniform(0, high)
199

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/tenacity/wait.py:226:17
225 def __call__(self, retry_state: "RetryCallState") -> float:
226 jitter = random.uniform(0, self.jitter)
227 try:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/

typing_extensions.py:963:12

```
962     def copy_with(self, params):
963         assert len(params) == 1
964         new_type = params[0]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/

typing_extensions.py:2153:12

```
2152     def __new__(cls, typename, bases, ns):
2153         assert _NamedTuple in bases
2154         for base in bases:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/

typing_extensions.py:2206:8

```
2205     def _namedtuple_mro_entries(bases):
2206         assert NamedTuple in bases
2207         return (_NamedTuple,)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/contrib/

securetransport.py:719:12

```
718         leaf = SecurityxSecTrustGetCertificateAtIndex(trust, 0)
719         assert leaf
720
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/contrib/securetransport.py:723:12

```
722         certdata = Security.SecCertificateCopyData(leaf)
```

```
723         assert certdata
```

```
724
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/contrib/securetransport.py:901:8

```
900     # See PEP 543 for the real deal.
```

```
901     assert not server_side
```

```
902     assert do_handshake_on_connect
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/contrib/securetransport.py:902:8

```
901     assert not server_side
```

```
902     assert do_handshake_on_connect
```

```
903     assert suppress_ragged_eofs
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/contrib/securetransport.py:903:8

```
902     assert do_handshake_on_connect
```

903 assert suppress_ragged_eof
904

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/packages/backports/makefile.py:23:4

```
22        reading = "r" in mode or not writing  
23        assert reading or writing  
24        binary = "b" in mode
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/packages/backports/makefile.py:45:8

```
44        else:  
45            assert writing  
46            buffer = io.BufferedWriter(raw, buffering)
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/packages/six.py:787:8

```
786            _locs_ = _globals_  
787            exec ("""exec _code_ in _globals_, _locs_""")  
788
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/
response.py:495:8
494         """
495         assert self._fp
496         c_int_max = 2 ** 31 - 1
```

```
-----
>> Issue: [B110:try_except_pass] Try, Except, Pass detected.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/
b110_try_except_pass.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/util/
connection.py:141:8
140         has_ipv6 = True
141         except Exception:
142             pass
143
```

```
-----
>> Issue: [B504:ssl_with_no_version] ssl.wrap_socket call with no SSL/TLS
protocol version specified, the default SSLv23 could be insecure, possible security
issue.
Severity: Low Confidence: Medium
CWE: CWE-327 (https://cwe.mitre.org/data/definitions/327.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/
b504_ssl_with_no_version.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/util/
ssl.py:179:19
178         }
179         return wrap_socket(socket, ciphers=self.ciphers, **kwargs)
180
```

```
-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/util/
ssltransport.py:120:8
119         reading = "r" in mode or not writing
120         assert reading or writing
121         binary = "b" in mode
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/urllib3/util/ssltransport.py:142:12

```
141         else:
142             assert writing
143             buffer = io.BufferedWriter(raw, buffering)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/__init__.py:224:12

```
223         if output:
224             assert decoder.encoding is not None
225             yield decoder.encoding
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/__init__.py:231:8

```
230         output = decode(b'', final=True)
231         assert decoder.encoding is not None
232         yield decoder.encoding
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

mklabels.py:21:4

```
20 def assert_lower(string):
21     assert string == string.lower()
22     return string
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/mklabels.py:47:35

```
46     repr(encoding['name']).lstrip('u'))
47     for category in json.loads(urlopen(url).read().decode('ascii'))
48     for encoding in category['encodings']
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/tests.py:30:4

```
29 def test_labels():
30     assert lookup('utf-8')×name == 'utf-8'
31     assert lookup('Utf-8')×name == 'utf-8'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/tests.py:31:4

```
30     assert lookup('utf-8')×name == 'utf-8'
31     assert lookup('Utf-8')×name == 'utf-8'
32     assert lookup('UTF-8')×name == 'utf-8'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:32:4

```
31     assert lookup('Utf-8')×name == 'utf-8'
32     assert lookup('UTF-8')×name == 'utf-8'
33     assert lookup('utf8')×name == 'utf-8'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:33:4

```
32     assert lookup('UTF-8')×name == 'utf-8'
33     assert lookup('utf8')×name == 'utf-8'
34     assert lookup('utf8')×name == 'utf-8'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:34:4

```
33     assert lookup('utf8')×name == 'utf-8'
34     assert lookup('utf8')×name == 'utf-8'
35     assert lookup('utf8 ')×name == 'utf-8'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:35:4

```
34     assert lookup('utf8')×name == 'utf-8'
35     assert lookup('utf8 ')×name == 'utf-8'
```

```
36     assert lookup(' \r\nutf8\t').name == 'utf-8'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:36:4

```
35     assert lookup('utf8 ')xname == 'utf-8'  
36     assert lookup(' \r\nutf8\t').name == 'utf-8'  
37     assert lookup('u8') is None # Python label.
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:37:4

```
36     assert lookup(' \r\nutf8\t').name == 'utf-8'  
37     assert lookup('u8') is None # Python label.  
38     assert lookup('utf-8 ') is None # Non-ASCII white space.
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:38:4

```
37     assert lookup('u8') is None # Python label.  
38     assert lookup('utf-8 ') is None # Non-ASCII white space.  
39
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:40:4

39

40 assert lookup('US-ASCII').name == 'windows-1252'

41 assert lookup('iso-8859-1')>name == 'windows-1252'

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:41:4

40 assert lookup('US-ASCII').name == 'windows-1252'

41 assert lookup('iso-8859-1')>name == 'windows-1252'

42 assert lookup('latin1')>name == 'windows-1252'

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:42:4

41 assert lookup('iso-8859-1')>name == 'windows-1252'

42 assert lookup('latin1')>name == 'windows-1252'

43 assert lookup('LATIN1')>name == 'windows-1252'

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:43:4

42 assert lookup('latin1')>name == 'windows-1252'

43 assert lookup('LATIN1')>name == 'windows-1252'

44 assert lookup('latin-1') is None

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:44:4

```
43     assert lookup('LATIN1')xname == 'windows-1252'
```

```
44     assert lookup('latin-1') is None
```

```
45     assert lookup('LATIN1') is None # ASCII-only case insensitivity.
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:45:4

```
44     assert lookup('latin-1') is None
```

```
45     assert lookup('LATIN1') is None # ASCII-only case insensitivity.
```

```
46
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:50:8

```
49     for label in LABELS:
```

```
50         assert decode(b'', label) == ('', lookup(label))
```

```
51         assert encode('', label) == b''
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:51:8

```
50         assert decode(b'', label) == ('', lookup(label))
```

```
51         assert encode('', label) == b''
```

52 for repeat in [0, 1, 12]:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:54:12

```
53       output, _ = iter_decode([b'' * repeat, label])
54       assert list(output) == []
55       assert list(iter_encode([''] * repeat, label)) == []
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:55:12

```
54       assert list(output) == []
55       assert list(iter_encode([''] * repeat, label)) == []
56       decoder = IncrementalDecoder(label)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:57:8

```
56       decoder = IncrementalDecoder(label)
57       assert decoder.decode(b'') == ''
58       assert decoder.decode(b'', final=True) == ''
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:58:8

```
57     assert decoder×decode(b'') == ''
58     assert decoder.decode(b'', final=True) == ''
59     encoder = IncrementalEncoder(label)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:60:8

```
59     encoder = IncrementalEncoder(label)
60     assert encoder.encode('') == b''
61     assert encoder.encode('', final=True) == b''
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:61:8

```
60     assert encoder.encode('') == b''
61     assert encoder.encode('', final=True) == b''
62     # All encoding names are valid labels too:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:64:8

```
63     for name in set(LABELS.values()):
64         assert lookup(name).name == name
65
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:77:4

```
76 def test_decode():
```

```
77     assert decode(b'\x80', 'latin1') == ('€', lookup('latin1'))
```

```
78     assert decode(b'\x80', lookup('latin1')) == ('€', lookup('latin1'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:78:4

```
77     assert decode(b'\x80', 'latin1') == ('€', lookup('latin1'))
```

```
78     assert decode(b'\x80', lookup('latin1')) == ('€', lookup('latin1'))
```

```
79     assert decode(b'\xc3\xa9', 'utf8') == ('é', lookup('utf8'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:79:4

```
78     assert decode(b'\x80', lookup('latin1')) == ('€', lookup('latin1'))
```

```
79     assert decode(b'\xc3\xa9', 'utf8') == ('é', lookup('utf8'))
```

```
80     assert decode(b'\xc3\xa9', UTF8) == ('é', lookup('utf8'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:80:4

```
79     assert decode(b'\xc3\xa9', 'utf8') == ('é', lookup('utf8'))
```

```
80     assert decode(b'\xc3\xa9', UTF8) == ('é', lookup('utf8'))
```

```
81     assert decode(b'\xc3\xa9', 'ascii') == ('Ã©', lookup('ascii'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:81:4

```
80     assert decode(b'\xc3\xa9', UTF8) == ('é', lookup('utf8'))
81     assert decode(b'\xc3\xa9', 'ascii') == ('Ã©', lookup('ascii'))
82     assert decode(b'\xEF\xBB\xBF\xc3\xa9', 'ascii') == ('é', lookup('utf8')) #
UTF-8 with BOM
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:82:4

```
81     assert decode(b'\xc3\xa9', 'ascii') == ('Ã©', lookup('ascii'))
82     assert decode(b'\xEF\xBB\xBF\xc3\xa9', 'ascii') == ('é', lookup('utf8')) #
UTF-8 with BOM
83
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:84:4

```
83
84     assert decode(b'\xFE\xFF\x00\xe9', 'ascii') == ('é', lookup('utf-16be')) #
UTF-16-BE with BOM
85     assert decode(b'\xFF\xFE\xe9\x00', 'ascii') == ('é', lookup('utf-16le')) #
UTF-16-LE with BOM
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:85:4

```
84     assert decode(b'\xFE\xFF\x00\xe9', 'ascii') == ('é', lookup('utf-16be')) #  
UTF-16-BE with BOM
```

```
85     assert decode(b'\xFF\xFE\xe9\x00', 'ascii') == ('é', lookup('utf-16le')) #  
UTF-16-LE with BOM
```

```
86     assert decode(b'\xFE\xFF\xe9\x00', 'ascii') == ('\ue900',  
lookup('utf-16be'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:86:4

```
85     assert decode(b'\xFF\xFE\xe9\x00', 'ascii') == ('é', lookup('utf-16le')) #  
UTF-16-LE with BOM
```

```
86     assert decode(b'\xFE\xFF\xe9\x00', 'ascii') == ('\ue900',  
lookup('utf-16be'))
```

```
87     assert decode(b'\xFF\xFE\x00\xe9', 'ascii') == ('\ue900', lookup('utf-16le'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:87:4

```
86     assert decode(b'\xFE\xFF\xe9\x00', 'ascii') == ('\ue900',  
lookup('utf-16be'))
```

```
87     assert decode(b'\xFF\xFE\x00\xe9', 'ascii') == ('\ue900', lookup('utf-16le'))
```

```
88
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:89:4

88

89 assert decode(b'\x00\xe9', 'UTF-16BE') == ('é', lookup('utf-16be'))

90 assert decode(b'\xe9\x00', 'UTF-16LE') == ('é', lookup('utf-16le'))

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:90:4

89 assert decode(b'\x00\xe9', 'UTF-16BE') == ('é', lookup('utf-16be'))

90 assert decode(b'\xe9\x00', 'UTF-16LE') == ('é', lookup('utf-16le'))

91 assert decode(b'\xe9\x00', 'UTF-16') == ('é', lookup('utf-16le'))

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:91:4

90 assert decode(b'\xe9\x00', 'UTF-16LE') == ('é', lookup('utf-16le'))

91 assert decode(b'\xe9\x00', 'UTF-16') == ('é', lookup('utf-16le'))

92

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:93:4

92

93 assert decode(b'\xe9\x00', 'UTF-16BE') == ('\ue900', lookup('utf-16be'))

94 assert decode(b'\x00\xe9', 'UTF-16LE') == ('\ue900', lookup('utf-16le'))

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:94:4

```
93     assert decode(b'\xe9\x00', 'UTF-16BE') == ('\ue900', lookup('utf-16be'))
94     assert decode(b'\x00\xe9', 'UTF-16LE') == ('\ue900', lookup('utf-16le'))
95     assert decode(b'\x00\xe9', 'UTF-16') == ('\ue900', lookup('utf-16le'))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:95:4

```
94     assert decode(b'\x00\xe9', 'UTF-16LE') == ('\ue900', lookup('utf-16le'))
95     assert decode(b'\x00\xe9', 'UTF-16') == ('\ue900', lookup('utf-16le'))
96
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:99:4

```
98 def test_encode():
99     assert encode('é', 'latin1') == b'\xe9'
100    assert encode('é', 'utf8') == b'\xc3\xa9'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:100:4

```
99     assert encode('é', 'latin1') == b'\xe9'
100    assert encode('é', 'utf8') == b'\xc3\xa9'
101    assert encode('é', 'utf8') == b'\xc3\xa9'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:101:4

```
100    assert encode('é', 'utf8') == b'\xc3\xa9'
101    assert encode('é', 'utf8') == b'\xc3\xa9'
102    assert encode('é', 'utf-16') == b'\xe9\x00'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:102:4

```
101    assert encode('é', 'utf8') == b'\xc3\xa9'
102    assert encode('é', 'utf-16') == b'\xe9\x00'
103    assert encode('é', 'utf-16le') == b'\xe9\x00'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:103:4

```
102    assert encode('é', 'utf-16') == b'\xe9\x00'
103    assert encode('é', 'utf-16le') == b'\xe9\x00'
104    assert encode('é', 'utf-16be') == b'\x00\xe9'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:104:4

```
103     assert encode('é', 'utf-16le') == b'\xe9\x00'
104     assert encode('é', 'utf-16be') == b'\x00\xe9'
105
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:111:4

```
110     return ''.join(output)
111     assert iter_decode_to_string([], 'latin1') == ''
112     assert iter_decode_to_string([b''], 'latin1') == ''
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:112:4

```
111     assert iter_decode_to_string([], 'latin1') == ''
112     assert iter_decode_to_string([b''], 'latin1') == ''
113     assert iter_decode_to_string([b'\xe9'], 'latin1') == 'é'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:113:4

```
112     assert iter_decode_to_string([b''], 'latin1') == ''
113     assert iter_decode_to_string([b'\xe9'], 'latin1') == 'é'
114     assert iter_decode_to_string([b'hello'], 'latin1') == 'hello'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:114:4

```
113     assert iter_decode_to_string([b'\xe9'], 'latin1') == 'é'  
114     assert iter_decode_to_string([b'hello'], 'latin1') == 'hello'  
115     assert iter_decode_to_string([b'he', b'llo'], 'latin1') == 'hello'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:115:4

```
114     assert iter_decode_to_string([b'hello'], 'latin1') == 'hello'  
115     assert iter_decode_to_string([b'he', b'llo'], 'latin1') == 'hello'  
116     assert iter_decode_to_string([b'hell', b'o'], 'latin1') == 'hello'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:116:4

```
115     assert iter_decode_to_string([b'he', b'llo'], 'latin1') == 'hello'  
116     assert iter_decode_to_string([b'hell', b'o'], 'latin1') == 'hello'  
117     assert iter_decode_to_string([b'\xc3\xa9'], 'latin1') == 'Ã©'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:117:4

```
116     assert iter_decode_to_string([b'hell', b'o'], 'latin1') == 'hello'
117     assert iter_decode_to_string([b'\xc3\xa9'], 'latin1') == 'Ã©'
118     assert iter_decode_to_string([b'\xEF\xBB\xBF\xc3\xa9'], 'latin1') == 'é'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:118:4

```
117     assert iter_decode_to_string([b'\xc3\xa9'], 'latin1') == 'Ã©'
118     assert iter_decode_to_string([b'\xEF\xBB\xBF\xc3\xa9'], 'latin1') == 'é'
119     assert iter_decode_to_string([
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:119:4

```
118     assert iter_decode_to_string([b'\xEF\xBB\xBF\xc3\xa9'], 'latin1') == 'é'
119     assert iter_decode_to_string([
120         b'\xEF\xBB\xBF', b'\xc3', b'\xa9'], 'latin1') == 'é'
121     assert iter_decode_to_string([
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:121:4

```
120         b'\xEF\xBB\xBF', b'\xc3', b'\xa9'], 'latin1') == 'é'
121     assert iter_decode_to_string([
122         b'\xEF\xBB\xBF', b'a', b'\xc3'], 'latin1') == 'a\uFFFFD'
123     assert iter_decode_to_string([
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:123:4

```
122     b'\xEF\xBB\xBF', b'a', b'\xc3'], 'latin1') == 'a\uFFFD'
123     assert iter_decode_to_string([
124         b'', b'\xEF', b'', b'', b'\xBB\xBF\xc3', b'\xa9'], 'latin1') == 'é'
125     assert iter_decode_to_string([b'\xEF\xBB\xBF'], 'latin1') == ''
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:125:4

```
124     b'', b'\xEF', b'', b'', b'\xBB\xBF\xc3', b'\xa9'], 'latin1') == 'é'
125     assert iter_decode_to_string([b'\xEF\xBB\xBF'], 'latin1') == ''
126     assert iter_decode_to_string([b'\xEF\xBB'], 'latin1') == 'ï»'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:126:4

```
125     assert iter_decode_to_string([b'\xEF\xBB\xBF'], 'latin1') == ''
126     assert iter_decode_to_string([b'\xEF\xBB'], 'latin1') == 'ï»'
127     assert iter_decode_to_string([b'\xFE\xFF\x00\xe9'], 'latin1') == 'é'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:127:4

```
126     assert iter_decode_to_string([b'\xEF\xBB'], 'latin1') == 'ï»'
127     assert iter_decode_to_string([b'\xFE\xFF\x00\xe9'], 'latin1') == 'é'
128     assert iter_decode_to_string([b'\xFF\xFE\xe9\x00'], 'latin1') == 'é'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:128:4

```
127     assert iter_decode_to_string([b'\xFE\xFF\x00\xe9'], 'latin1') == 'é'
128     assert iter_decode_to_string([b'\xFF\xFE\xe9\x00'], 'latin1') == 'é'
129     assert iter_decode_to_string([
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:129:4

```
128     assert iter_decode_to_string([b'\xFF\xFE\xe9\x00'], 'latin1') == 'é'
129     assert iter_decode_to_string([
130         b'', b'\xFF', b'', b'', b'\xFE\xe9', b'\x00'], 'latin1') == 'é'
131     assert iter_decode_to_string([
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:131:4

```
130         b'', b'\xFF', b'', b'', b'\xFE\xe9', b'\x00'], 'latin1') == 'é'
131     assert iter_decode_to_string([
132         b'', b'h\xe9', b'llo'], 'x-user-defined') == 'h\uF7E9llo'
133
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:136:4

```
135 def test_iter_encode():
```

```
136     assert b''.join(iter_encode([], 'latin1')) == b''
```

```
137     assert b''.join(iter_encode([''], 'latin1')) == b''
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:137:4

```
136     assert b''.join(iter_encode([], 'latin1')) == b''
```

```
137     assert b''.join(iter_encode([''], 'latin1')) == b''
```

```
138     assert b''.join(iter_encode(['é'], 'latin1')) == b'\xe9'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:138:4

```
137     assert b''.join(iter_encode([''], 'latin1')) == b''
```

```
138     assert b''.join(iter_encode(['é'], 'latin1')) == b'\xe9'
```

```
139     assert b''.join(iter_encode(['', 'é', '', ''], 'latin1')) == b'\xe9'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/

tests.py:139:4

```
138     assert b''.join(iter_encode(['é'], 'latin1')) == b'\xe9'
```

```
139     assert b''.join(iter_encode(['', 'é', '', ''], 'latin1')) == b'\xe9'
```

```
140     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16')) == b'\xe9\x00'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:140:4

```
139     assert b''.join(iter_encode(['', 'é', '', ''], 'latin1')) == b'\xe9'
```

```
140     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16')) == b'\xe9\x00'
```

```
141     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16le')) == b'\xe9\x00'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:141:4

```
140     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16')) == b'\xe9\x00'
```

```
141     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16le')) == b'\xe9\x00'
```

```
142     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16be')) == b'\x00\xe9'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:142:4

```
141     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16le')) == b'\xe9\x00'
```

```
142     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16be')) == b'\x00\xe9'
```

```
143     assert b''.join(iter_encode([
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:143:4

```
142     assert b''.join(iter_encode(['', 'é', '', ''], 'utf-16be')) == b'\x00\xe9'
143     assert b''.join(iter_encode([
144         '', 'h\uF7E9', '', 'llo'], 'x-user-defined')) == b'h\xe9llo'
145
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:152:4

```
151     decoded = 'aa'
152     assert decode(encoded, 'x-user-defined') == (decoded, lookup('x-user-
defined'))
153     assert encode(decoded, 'x-user-defined') == encoded
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pip/_vendor/webencodings/
tests.py:153:4

```
152     assert decode(encoded, 'x-user-defined') == (decoded, lookup('x-user-
defined'))
153     assert encode(decoded, 'x-user-defined') == encoded
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/__init__.py:1517:12

```
1516         code = compile(source, script_filename, 'exec')
1517         exec(code, namespace, namespace)
1518     else:
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/__init__.py:1528:12

```
1527     script_code = compile(script_text, script_filename, 'exec')
```

```
1528     exec(script_code, namespace, namespace)
```

```
1529
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/jaraco/context.py:2:0

```
1     import os
```

```
2     import subprocess
```

```
3     import contextlib
```

>> Issue: [B604:any_other_function_with_shell_equals_true] Function call with shell=True parameter identified, possible security issue.

Severity: Medium Confidence: Low

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b604_any_other_function_with_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/jaraco/context.py:31:17

```
30     if runner is None:
```

```
31         runner = functools.partial(subprocess.check_call, shell=True)
```

```
32     # In the tar command, use --strip-components=1 to strip the first path and
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/jaraco/context.py:87:8

```
86     stdout = devnull if quiet else None
```

```
87     subprocess.check_call(cmd, stdout=stdout)
88     yield repo_dir
```

>> Issue: [B307:blacklist] Use of possibly insecure function - consider using safer `ast.literal_eval`.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b307-eval

Location: `./venv/lib/python3.11/site-packages/pkg_resources/_vendor/jaraco/functools.py:519:27`

```
518         try:
519             return eval(use)
520         except TypeError:
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: `./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3460:16`

```
3459     # Largest order statistic: https://en.wikipedia.org/wiki/Order\_statistic
3460     W = exp(log(random()) / k)
3461
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: `./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3464:31`

```
3463     # number with a geometric distribution. Sample it using random() and
logs.
3464     next_index = k + floor(log(random()) / log(1 - W))
3465
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3469:22

```
3468         if index == next_index:
3469             reservoir[randrange(k)] = element
3470             # The new W is the largest in a sample of k U(0, `old_W`)
numbers
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3471:25

```
3470             # The new W is the largest in a sample of k U(0, `old_W`)
numbers
3471         W *= exp(log(random()) / k)
3472         next_index += floor(log(random()) / log(1 - W)) + 1
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3472:36

```
3471         W *= exp(log(random()) / k)
3472         next_index += floor(log(random()) / log(1 - W)) + 1
3473
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random
Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3482:23
3481 # Log-transform for numerical stability for weights that are small/large
3482 weight_keys = (log(random()) / weight for weight in weights)
3483

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random
Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3492:26
3491 smallest_weight_key, _ = reservoir[0]
3492 weights_to_skip = log(random()) / smallest_weight_key
3493

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random
Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3500:18
3499 t_w = exp(weight * smallest_weight_key)
3500 r_2 = uniform(t_w, 1) # generate U(t_w, 1)
3501 weight_key = log(r_2) / weight

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random
Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/more.py:3504:34

```
3503         smallest_weight_key, _ = reservoir[0]
3504         weights_to_skip = log(random()) / smallest_weight_key
3505     else:
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/recipes.py:585:17

```
584     pools = [tuple(pool) for pool in args] * repeat
585     return tuple(choice(pool) for pool in pools)
586
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/more_itertools/recipes.py:635:21

```
634     n = len(pool)
635     indices = sorted(randrange(n) for i in range(r))
636     return tuple(pool[i] for i in indices)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/packaging/_manylinux.py:146:8

```
145     version_string = os.confstr("CS_GNU_LIBC_VERSION")
146     assert version_string is not None
147     _, version = version_string.split()
```

>> Issue: [B404:blacklist] Consider possible security implications associated with

the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/blacklists/>

[blacklist_imports.html#b404-import-subprocess](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/packaging/_musllinux.py:13:0

```
12 import struct
```

```
13 import subprocess
```

```
14 import sys
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/](https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html)

[b603_subprocess_without_shell_equals_true.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html)

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/packaging/_musllinux.py:106:11

```
105 return None
```

```
106 proc = subprocess.run([ld], stderr=subprocess.PIPE,  
universal_newlines=True)
```

```
107 return _parse_musl_version(proc.stderr)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/packaging/_musllinux.py:130:4

```
129 plat = sysconfig.get_platform()
```

```
130 assert plat.startswith("linux-"), "not linux"
```

```
131
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/packaging/

markers.py:152:4

151

152 assert isinstance(marker, (list, tuple, str))

153

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/packaging/
markers.py:226:8

225 for marker in markers:

226 assert isinstance(marker, (list, tuple, str))

227

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/packaging/
markers.py:242:12

241 else:

242 assert marker in ["and", "or"]

243 if marker == "or":

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/
typing_extensions.py:963:12

962 def copy_with(self, params):

963 assert len(params) == 1

964 new_type = params[0]

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/

typing_extensions.py:2153:12

```
2152     def __new__(cls, typename, bases, ns):
2153         assert _NamedTuple in bases
2154         for base in bases:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pkg_resources/_vendor/

typing_extensions.py:2206:8

```
2205     def _namedtuple_mro_entries(bases):
2206         assert NamedTuple in bases
2207         return (_NamedTuple,)
```

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/](https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html)

b110_try_except_pass.html

Location: ./venv/lib/python3.11/site-packages/pygments/cmdline.py:522:12

```
521         width = shutil.get_terminal_size().columns - 2
522         except Exception:
523             pass
524         argparse.HelpFormatter.__init__(self, prog, indent_increment,
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/formatters/

__init__.py:103:12

```
102     with open(filename, 'rb') as f:
103         exec(f.read(), custom_namespace)
104     # Retrieve the class `formattername` from that namespace
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pygments/formatters/img.py:17:0

16

17 import subprocess

18

>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial executable path

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html

Location: ./venv/lib/python3.11/site-packages/pygments/formatters/img.py:93:15

92 def _get_nix_font_path(self, name, style):

93 proc = subprocess.Popen(['fc-list', f'{name}:style={style}', 'file'],

94 stdout=subprocess.PIPE, stderr=None)

95 stdout, _ = proc.communicate()

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pygments/formatters/img.py:93:15

92 def _get_nix_font_path(self, name, style):

93 proc = subprocess.Popen(['fc-list', f'{name}:style={style}', 'file'],

94 stdout=subprocess.PIPE, stderr=None)

95 stdout, _ = proc.communicate()

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:512:8

```
511         """Preprocess the token component of a token definition."""
512         assert type(token) is _TokenType or callable(token), \
513             f'token type must be simple type or callable, not {token!r}'
514         return token
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:529:16

```
528         else:
529             assert False, f'unknown new state {new_state!r}'
530         elif isinstance(new_state, combined):
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:536:16

```
535         for istate in new_state:
536             assert istate != new_state, f'circular state ref {istate!r}'
537             itokens.extend(cls._process_state(unprocessed,
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:544:16

```
543         for istate in new_state:
544             assert (istate in unprocessed or
545                     istate in ('#pop', '#push')), \
546                 'unknown new state ' + istate
547         return new_state
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:549:12

548 else:

549 assert False, f'unknown new state def {new_state!r}'

550

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:553:8

552 """Preprocess a single state definition."""

553 assert isinstance(state, str), f"wrong state name {state!r}"

554 assert state[0] != '#', f"invalid state name {state!r}"

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:554:8

553 assert isinstance(state, str), f"wrong state name {state!r}"

554 assert state[0] != '#', f"invalid state name {state!r}"

555 if state in processed:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:562:16

561 # it's a state reference

562 assert tdef != state, f"circular state reference {state!r}"

563 tokens.extend(cls._process_state(unprocessed, processed,

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:576:12

575

576 assert type(tdef) is tuple, f"wrong rule def {tdef!r}"

577

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:742:28

741

else:

742

assert False, f"wrong state def: {new_state!r}"

743

statetokens = tokendefs[statestack[-1]]

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexer.py:829:28

828

else:

829

assert False, f"wrong state def: {new_state!r}"

830

statetokens = tokendefs[ctx.stack[-1]]

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/__init__.py:154:12

153

with open(filename, 'rb') as f:

154

exec(f.read(), custom_namespace)

155

Retrieve the class `lexername` from that namespace

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_lua_builtins.py:225:12

```
224 def get_newest_version():
225     f = urlopen('http://www.lua.org/manual/')
226     r = re.compile(r'^<A HREF="(\\d\\.\\d)"/">(Lua )?\\1</A>')
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_lua_builtins.py:233:12

```
232 def get_lua_functions(version):
233     f = urlopen(f'http://www.lua.org/manual/{version}/')
234     r = re.compile(r'^<A HREF="manual.html#pdf-(?!lua|LUA)([^\:]+)">\\1</A>')
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_mysql_builtins.py:1248:19

```
1247 # Pull content from lex.h.
1248     lex_file = urlopen(LEX_URL).read().decode('utf8', errors='ignore')
1249     keywords = parse_lex_keywords(lex_file)
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

```
Location: ./venv/lib/python3.11/site-packages/pygments/lexers/
_mysql_builtins.py:1254:27
1253     # Parse content in item_create.cc.
1254     item_create_file = urlopen(ITEM_CREATE_URL).read().decode('utf8',
errors='ignore')
1255     functions.update(parse_item_create_functions(item_create_file))
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_php_builtins.py:3299:19

```
3298     def get_php_references():
3299         download = urlretrieve(PHP_MANUAL_URL)
3300         with tarfile.open(download[0]) as tar:
```

>> Issue: [B202:tarfile_unsafe_members] tarfile.extractall used without any validation. Please check and discard dangerous members.

Severity: High Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b202_tarfile_unsafe_members.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_php_builtins.py:3301:12

```
3300         with tarfile.open(download[0]) as tar:
3301             tar.extractall()
3302             yield from glob.glob(f"{PHP_MANUAL_DIR}
{PHP_REFERENCE_GLOB}")
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_postgres_builtins.py:642:18

```
641     def update_myself():
```

```
642     content = urlopen(DATATYPES_URL).read().decode('utf-8',
errors='ignore')
643     data_file = list(content.splitlines())
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_postgres_builtins.py:647:18

```
646
```

```
647     content = urlopen(KEYWORDS_URL).read().decode('utf-8',
errors='ignore')
```

```
648     keywords = parse_keywords(content)
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_scilab_builtins.py:3055:4

```
3054     if __name__ == '__main__': # pragma: no cover
```

```
3055         import subprocess
```

```
3056         from pygments.util import format_lines, duplicates_removed
```

>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial executable path

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_scilab_builtins.py:3061:12

```
3060     def extract_completion(var_type):
```

```
3061         s = subprocess.Popen(['scilab', '-nwni'], stdin=subprocess.PIPE,
```

```
3062                                stdout=subprocess.PIPE, stderr=subprocess.PIPE)
```

```
3063         output = s.communicate(f'''\
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/_scilab_builtins.py:3061:12

```
3060     def extract_completion(var_type):
3061         s = subprocess.Popen(['scilab', '-nwni'], stdin=subprocess.PIPE,
3062                               stdout=subprocess.PIPE, stderr=subprocess.PIPE)
3063         output = sxcommunicate(f'''\
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: 'root'

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/int_fiction.py:728:24

```
727     for token in Inform6Lexer.tokens:
728         if token == 'root':
729             continue
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: '[^\W\d]\w*'

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/jsonnet.py:17:16

```
16
17     jsonnet_token = r'^[\W\d]\w*'
18     jsonnet_function_token = jsonnet_token + r'(?(=\()'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/lilypond.py:43:8

```
42     else:
43         assert backslash == "disallowed"
44     return words(names, prefix, suffix)
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: '

```
(?=
\s      # whitespace
| ;     # comment
| \#[;!] # fancy comments
| []\]] # end delimiters
| $     # end of file
)
```

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/lisp.py:50:16

```
49     # Use within verbose regexes
50     token_end = r'''
51     (
52     \s      # whitespace
53     | ;     # comment
54     | \#[;!] # fancy comments
55     | []\]] # end delimiters
56     | $     # end of file
57     )
58     '''
59
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: '(?
=\s|#[()\\\]]|\$)'

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/lisp.py:3041:17

```
3040     # ...so, express it like this
3041     _token_end = r'(?=\s|#[()\\\]]|$)'
3042
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: '[A-Z]\w*'

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/](https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html)

[b105_hardcoded_password_string.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html)

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/parsers.py:334:17

```
333     _id = r'[A-Za-z]\w*'
334     _TOKEN_REF = r'[A-Z]\w*'
335     _RULE_REF = r'[a-z]\w*'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/
scripting.py:1475:8

```
1474         result += 0.01
1475     assert 0.0 <= result <= 1.0
1476     return result
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/
scripting.py:1559:8

```
1558         result = 1.0
1559     assert 0.0 <= result <= 1.0
1560     return result
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/lexers/sql.py:241:8


```
240     else:
241         assert 0, "SQL keywords not found"
242
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/pygments/style.py:79:12

```
78         return text
79         assert False, f"wrong color format {text!r}"
80
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/_pick.py:13:4

```
12     """
13     assert values, "1 or more values required"
14     for value in values:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/_ratio.py:129:4

```
128     total_ratio = sum(ratios)
129     assert total_ratio > 0, "Sum of ratios must be > 0"
130
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/_win32_console.py:435:8

```
434
435     assert fore is not None
436     assert back is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/_win32_console.py:436:8

```
435     assert fore is not None
436     assert back is not None
437
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/_win32_console.py:565:8

```
564     """
565     assert len(title) < 255, "Console title must be less than 255 characters"
566     SetConsoleTitle(title)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:365:12

```
364     if self.xtype == ColorType.TRUECOLOR:
365         assert self.triplet is not None
366         return self.triplet
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:368:12

```
367     elif self.xtype == ColorType.EIGHT_BIT:
368         assert self.number is not None
369         return EIGHT_BIT_PALETTE[self.number]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:371:12

```
370     elif self.xtype == ColorType.STANDARD:
371         assert self.number is not None
372         return theme.ansi_colors[self.number]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:374:12

```
373     elif self.xtype == ColorType.WINDOWS:
374         assert self.number is not None
375         return WINDOWS_PALETTE[self.number]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:377:12

```
376     else: # self.xtype == ColorType.DEFAULT:
377         assert self.number is None
378         return theme.foreground_color if foreground else
theme.background_color
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:493:12
492 number = self.number
493 assert number is not None
494 fore, back = (30, 40) if number < 8 else (82, 92)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/rich/color.py:499:12
498 number = self.number
499 assert number is not None
500 fore, back = (30, 40) if number < 8 else (82, 92)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/rich/color.py:504:12
503 elif _type == ColorType.EIGHT_BIT:
504 assert self.number is not None
505 return ("38" if foreground else "48", "5", str(self.number))

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/rich/color.py:508:12
507 else: # self.standard == ColorStandard.TRUECOLOR:
508 assert self.triplet is not None
509 red, green, blue = self.triplet

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:520:12
519 if system == ColorSystem.EIGHT_BIT and self.system ==
ColorSystem.TRUECOLOR:
520 assert self.triplet is not None
521 _h, l, s = rgb_to_hls(*self.triplet.normalized)

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:546:16

545 if self.system == ColorSystem.TRUECOLOR:
546 assert self.triplet is not None
547 triplet = self.triplet

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:549:16

548 else: # self.system == ColorSystem.EIGHT_BIT
549 assert self.number is not None
550 triplet = ColorTriplet(×EIGHT_BIT_PALETTE[self.number])

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:557:16

556 if self.system == ColorSystem.TRUECOLOR:
557 assert self.triplet is not None
558 triplet = self.triplet

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:560:16

```
559         else: # self.system == ColorSystem.EIGHT_BIT
560             assert self.number is not None
561             if self.number < 16:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/color.py:573:4

```
572     """Parse six hex characters in to RGB triplet."""
573     assert len(hex_color) == 6, "must be 6 characters"
574     color = ColorTriplet(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/console.py:1144:8

```
1143
1144     assert count >= 0, "count must be >= 0"
1145     self.print(NewLine(count))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/console.py:1920:12

```
1919         offset -= 1
1920         assert frame is not None
1921         return frame.f_code.co_filename, frame.f_lineno, frame.f_locals
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/console.py:2180:8

```
2179     """
2180         assert (
2181             self.record
2182         ), "To export console contents set record=True in the constructor or
instance"
2183
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/console.py:2236:8

```
2235     """
2236         assert (
2237             self.record
2238         ), "To export console contents set record=True in the constructor or
instance"
2239         fragments: List[str] = []
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/live.py:65:8

```
64     ) -> None:
65         assert refresh_per_second > 0, "refresh_per_second must be > 0"
66         self._renderable = renderable
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/rich/live.py:352:19

```
351         time.sleep(0.4)
352         if random.randint(0, 10) < 1:
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/rich/live.py:355:21

```
354         exchange_rate_dict[(select_exchange, exchange)] = 200 / (  
355             (random.random() * 320) + 1  
356         )
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/logging.py:142:12

```
141         exc_type, exc_value, exc_traceback = record.exc_info  
142         assert exc_type is not None  
143         assert exc_value is not None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/logging.py:143:12

```
142         assert exc_type is not None  
143         assert exc_value is not None  
144         traceback = Traceback.from_exception(
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/markdown.py:270:8

```
269     def on_child_close(self, context: MarkdownContext, child:
```


MarkdownElement) -> bool:

```
270     assert isinstance(child, TableRowElement)
271     self.row = child
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/markdown.py:282:8

```
281     def on_child_close(self, context: MarkdownContext, child:
MarkdownElement) -> bool:
```

```
282         assert isinstance(child, TableRowElement)
283         self.rows.append(child)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/markdown.py:294:8

```
293     def on_child_close(self, context: MarkdownContext, child:
MarkdownElement) -> bool:
```

```
294         assert isinstance(child, TableDataElement)
295         self.cells.append(child)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/markdown.py:317:8

```
316
317     assert justify in get_args(JustifyMethod)
318     return cls(justify=justify)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/markdown.py:343:8

```
342 def on_child_close(self, context: MarkdownContext, child:
MarkdownElement) -> bool:
```

```
343     assert isinstance(child, ListItem)
```

```
344     self.items.append(child)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/markdown.py:614:20

```
613         element = context.stack.pop()
```

```
614         assert isinstance(element, Link)
```

```
615         link_style = console.get_style("markdown.link", default="none")
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/pretty.py:198:4

```
197     console = console or get_console()
```

```
198     assert console is not None
```

```
199
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/pretty.py:203:12

```
202     if value is not None:
```

```
203         assert console is not None
```

```
204         builtins._ = None # type: ignore[attr-defined]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/rich/pretty.py:516:8

```
515     )  
516     assert self.node is not None  
517     return self.node.check_length(start_length, max_length)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/pretty.py:522:8

```
521     node = self.node  
522     assert node is not None  
523     whitespace = self.whitespace
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/pretty.py:524:8

```
523     whitespace = self.whitespace  
524     assert node.children  
525     if node.key_repr:
```

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html

Location: ./venv/lib/python3.11/site-packages/rich/pretty.py:661:12

```
660         rich_repr_result = obj.__rich_repr__()  
661         except Exception:  
662             pass  
663
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/progress.py:1093:8

```
1092         ) -> None:
```

```
1093             assert refresh_per_second > 0, "refresh_per_second must be > 0"
```

```
1094             self._lock = RLock()
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/rich/progress.py:1714:15

```
1713         time.sleep(0.01)
```

```
1714         if random.randint(0, 100) < 1:
```

```
1715             progress.log(next(examples))
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/prompt.py:222:8

```
221         """
```

```
222         assert self.choices is not None
```

```
223         if self.case_sensitive:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/segment.py:171:8

```
170         text, style, control = self
```

```
171         assert cut >= 0
```

```
172
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for

security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/rich/style.py:193:15

```
192     self._link_id = (  
193         f"{randint(0, 999999)}{hash(self._meta)}" if (link or meta) else ""  
194     )
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/rich/style.py:243:28

```
242     style._meta = dumps(meta)  
243     style._link_id = f"{randint(0, 999999)}{hash(style._meta)}"  
244     style._hash = None
```

>> Issue: [B302:blacklist] Deserialization with the marshal module is possibly dangerous.

Severity: Medium Confidence: High

CWE: CWE-502 (<https://cwe.mitre.org/data/definitions/502.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b302-marshal)

[blacklist_calls.html#b302-marshal](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b302-marshal)

Location: ./venv/lib/python3.11/site-packages/rich/style.py:475:66

```
474     """Get meta information (can not be changed after construction)."""  
475     return {} if self._meta is None else cast(Dict[str, Any], loads(self._meta))  
476
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

[blacklist_calls.html#b311-random](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random)

Location: ./venv/lib/python3.11/site-packages/rich/style.py:490:28

```
489     style._link = self._link  
490     style._link_id = f"{randint(0, 999999)}" if self._link else ""
```

491 style._null = False

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/rich/style.py:642:28

```
641 style._link = self._link
642 style._link_id = f"{randint(0, 999999)}" if self._link else ""
643 style._hash = self._hash
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/rich/style.py:688:28

```
687 style._link = link
688 style._link_id = f"{randint(0, 999999)}" if link else ""
689 style._hash = None
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/syntax.py:492:20

```
491 """Split tokens to one per line."""
492 assert lexer # required to make MyPy happy - we know lexer is
not None at this point
493
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

```
Location: ./venv/lib/python3.11/site-packages/rich/text.py:908:8
907      """
908      assert len(character) == 1, "Character must be a string of length 1"
909      if count:

-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
Location: ./venv/lib/python3.11/site-packages/rich/text.py:925:8
924      """
925      assert len(character) == 1, "Character must be a string of length 1"
926      if count:

-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
Location: ./venv/lib/python3.11/site-packages/rich/text.py:941:8
940      """
941      assert len(character) == 1, "Character must be a string of length 1"
942      if count:

-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
Location: ./venv/lib/python3.11/site-packages/rich/text.py:1080:8
1079      """
1080      assert separator, "separator must not be empty"
1081

-----
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.
Severity: Low Confidence: High
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/rich/traceback.py:326:16
325         if not isinstance(suppress_entity, str):
326             assert (
327                 suppress_entity.__file__ is not None
328                 ), f"{{suppress_entity!r}} must be a module with '__file__' attribute"
329             path = os.path.dirname(suppress_entity.__file__)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/rich/traceback.py:758:16

```
757         if excluded:
758             assert exclude_frames is not None
759             yield Text(
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/_msvccompiler.py:17:0

```
16 import os
17 import subprocess
18 import contextlib
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/_msvccompiler.py:83:15

```
82     try:
83         path = subprocess.check_output(
84             [
85                 os.path.join(
```



```

86         root, "Microsoft Visual Studio", "Installer", "vswhere.exe"
87     ),
88     "-latest",
89     "-prerelease",
90     "-requires",
91     "Microsoft.VisualStudio.Component.VC.Tools.x86.x64",
92     "-property",
93     "installationPath",
94     "-products",
95     "*",
96 ],
97     encoding="mbcs",
98     errors="strict",
99 ).strip()
100 except (subprocess.CalledProcessError, OSError, UnicodeDecodeError):

```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/_msvccompiler.py:146:14

```

145     try:
146         out = subprocess.check_output(
147             f'cmd /u /c "{vcvarsall}" {plat_spec} && set',
148             stderr=subprocess.STDOUT,
149             ).decode('utf-16le', errors='replace')
150     except subprocess.CalledProcessError as exc:

```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/_msvccompiler.py:241:8

```

240     # multi-init means we would need to check platform same each time...
241     assert not self.initialized, "don't init multiple times"
242     if plat_name is None:

```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

ccompiler.py:345:8

```
344     objects = self.object_filenames(sources, strip_dir=0, output_dir=outdir)
```

```
345     assert len(objects) == len(sources)
```

```
346
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

ccompiler.py:412:8

```
411     objects = self.object_filenames(sources, output_dir=output_dir)
```

```
412     assert len(objects) == len(sources)
```

```
413
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

ccompiler.py:961:8

```
960     def shared_object_filename(self, basename, strip_dir=0, output_dir=""):
```

```
961         assert output_dir is not None
```

```
962         if strip_dir:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

ccompiler.py:967:8

```
966 def executable_filename(self, basename, strip_dir=0, output_dir=''):
967     assert output_dir is not None
968     if strip_dir:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

ccompiler.py:975:8

```
974 ):
975     assert output_dir is not None
976     expected = ["static", "shared", "dylib", "xcode_stub"]
```

>> Issue: [B307:blacklist] Use of possibly insecure function - consider using safer ast.literal_eval.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b307-eval)

[blacklist_calls.html#b307-eval](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b307-eval)

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

ccompiler.py:977:27

```
976     expected = ["static", "shared", "dylib", "xcode_stub"]
977     if lib_type not in eval(expected):
978         raise ValueError(f"'lib_type' must be {expected}")
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

[blacklist_imports.html#b404-import-subprocess](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/

_framework_compat.py:9:0

```
8 import functools
9 import subprocess
10 import sysconfig
```

>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial executable path

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/_framework_compat.py:45:22

```
44     return {}
45     homebrew_prefix = subprocess.check_output(['brew', '--prefix'],
text=True).strip()
46     return locals()
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/_framework_compat.py:45:22

```
44     return {}
45     homebrew_prefix = subprocess.check_output(['brew', '--prefix'],
text=True).strip()
46     return locals()
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/bdist_rpm.py:6:0

```
5
6     import subprocess
7     import sys
```

>> Issue: [B605:start_process_with_a_shell] Starting a process with a shell, possible injection detected, security issue.

Severity: High Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b605_start_process_with_a_shell.html
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/bdist_rpm.py:362:14
361
362 out = os.popen(q_cmd)
363 try:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/bdist_rpm.py:371:16
370 ell = linexstrip()xsplit()
371 assert len(ell) == 2
372 binary_rpms.append(ell[1])

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/bdist_rpm.py:394:16
393 srpm = os.path.join(rpm_dir['SRPMS'], source_rpm)
394 assert os.path.exists(srpm)
395 self.move_file(srpm, self.dist_dir)

>> Issue: [B605:start_process_with_a_shell] Starting a process with a shell: Seems safe, but may be changed in the future, consider rewriting without shell
Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b605_start_process_with_a_shell.html
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/bdist_rpm.py:428:22
427 # RHEL6 (and probably derivatives)
428 vendor_hook = subprocess.getoutput('rpm --eval %{{__os_install_post}}')

429 # Generate a potential replacement value for __os_install_post (whilst

>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial executable path

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/bdist_rpm.py:428:22

427 # RHEL6 (and probably derivatives)

428 vendor_hook = subprocess.getoutput('rpm --eval %{__os_install_post}')

429 # Generate a potential replacement value for __os_install_post (whilst

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/build_py.py:67:16

66 self.optimize = int(self.optimize)

67 assert 0 <= self.optimize <= 2

68 except (ValueError, AssertionError):

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/build_py.py:379:16

378 for (package_, module, module_file) in modules:

379 assert package == package_

380 self.build_module(module, module_file, package)

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/register.py:99:19

```
98         url = self.repository + '?:action=list_classifiers'
99         response = urllib.request.urlopen(url)
100         log.info(self._read_pypi_response(response))
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: ''

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/register.py:144:34

```
143         choice = 'x'
144         username = password = ''
145
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: ''

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/register.py:208:32

```
207         data = {'action': 'user'}
208         data['name'] = data['password'] = data['email'] = ''
209         data['confirm'] = None
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: ''

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/register.py:218:25

```
217         if data['password'] != data['confirm']:
218             data['password'] = ''
219             data['confirm'] = None
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: ''
Severity: Low Confidence: Medium
CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/upload.py:43:24
42 self.username = ''
43 self.password = ''
44 self.show_response = 0

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.
Severity: Medium Confidence: High
CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/command/upload.py:186:21
185 try:
186 result = urlopen(request)
187 status = result.getcode()

>> Issue: [B102:exec_used] Use of exec detected.
Severity: Medium Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/core.py:267:16
266 code = f.read().replace(r'\r\n', r'\n')
267 exec(code, g)
268 finally:

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.
Severity: Low Confidence: High
CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/
cygwinccompiler.py:15:0

```
14 import warnings
15 from subprocess import check_output
16
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check
for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/
b603_subprocess_without_shell_equals_true.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html)

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/
cygwinccompiler.py:350:17

```
349 '''Try to determine if the compiler that would be used is from cygwin.'''
350 out_string = check_output(shlex.split(cc) + ['-dumpmachine'])
351 return out_string.strip().endswith(b'cygwin')
```

>> Issue: [B105:hardcoded_password_string] Possible hardcoded password: ''

Severity: Low Confidence: Medium

CWE: CWE-259 (<https://cwe.mitre.org/data/definitions/259.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/
b105_hardcoded_password_string.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b105_hardcoded_password_string.html)

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/
dist.py:208:24

```
207 self.data_files = None
208 self.password = ''
209
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/
fancy_getopt.py:115:8

```
114 def _check_alias_dict(self, aliases, what):
115     assert isinstance(aliases, dict)
116     for (alias, opt) in aliases.items():
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

fancy_getopt.py:254:16

```
253         else:
254             assert len(opt) > 2 and opt[:2] == '--'
255             opt = opt[2:]
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

fancy_getopt.py:262:16

```
261         if not self.takes_arg[opt]: # boolean option?
262             assert val == '', "boolean option can't have value"
263             alias = self.negative_alias.get(opt)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

filelist.py:354:8

```
353     pattern_re = glob_to_re(pattern)
354     assert pattern_re.startswith(start) and pattern_re.endswith(end)
355     else:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/

filelist.py:360:8

```
359     prefix_re = glob_to_re(prefix)
```

```
360     assert prefix_re.startswith(start) and prefix_re.endswith(end)
361     prefix_re = prefix_re[len(start) : len(prefix_re) - len(end)]
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/msvc9compiler.py:16:0

```
15  import os
16  import subprocess
17  import sys
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/msvc9compiler.py:283:12

```
282  log.debug("Calling 'vcvarsall.bat %s' (version=%s)", arch, version)
283  popen = subprocess.Popen(
284      "{} {} & set'.format(vcvarsall, arch),
285      stdout=subprocess.PIPE,
286      stderr=subprocess.PIPE,
287  )
288  try:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/msvc9compiler.py:363:8

```
362      # multi-init means we would need to check platform same each time...
363      assert not self.initialized, "don't init multiple times"
364      if self.__version < 8.0:
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/spawn.py:11:0

```
10 import os
11 import subprocess
12
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/spawn.py:57:15

```
56 try:
57     proc = subprocess.Popen(cmd, env=env)
58     proc.wait()
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/util.py:11:0

```
10 import string
11 import subprocess
12 import sys
```

>> Issue: [B306:blacklist] Use of insecure and deprecated function (mktemp).

Severity: Medium Confidence: High

CWE: CWE-377 (<https://cwe.mitre.org/data/definitions/377.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b306-mktemp-q

```
Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/util.py:422:45
421
422     (script_fd, script_name) = None, mktemp(".py")
423     log.info("writing byte-compilation script '%s'", script_name)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_distutils/
version.py:218:12

```
217     else:
218         assert False, "never get here"
219
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/
blacklist_imports.html#b404-import-subprocess](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/jaraco/
context.py:2:0

```
1     import os
2     import subprocess
3     import contextlib
```

>> Issue: [B604:any_other_function_with_shell_equals_true] Function call with shell=True parameter identified, possible security issue.

Severity: Medium Confidence: Low

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/
b604_any_other_function_with_shell_equals_true.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b604_any_other_function_with_shell_equals_true.html)

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/jaraco/
context.py:31:17

```
30     if runner is None:
31         runner = functools.partial(subprocess.check_call, shell=True)
32     # In the tar command, use --strip-components=1 to strip the first path and
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/jaraco/context.py:87:8

```
86         stdout = devnull if quiet else None
87         subprocess.check_call(cmd, stdout=stdout)
88         yield repo_dir
```

>> Issue: [B307:blacklist] Use of possibly insecure function - consider using safer ast.literal_eval.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b307-eval

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/jaraco/func tools.py:519:27

```
518         try:
519             return eval(use)
520         except TypeError:
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3288:16

```
3287         # Largest order statistic: https://en.wikipedia.org/wiki/Order\_statistic
3288         W = exp(log(random()) / k)
3289
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/blacklists/>

blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3292:31

```
3291 # number with a geometric distribution. Sample it using random() and logs.
3292     next_index = k + floor(log(random()) / log(1 - W))
3293
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/blacklists/>

blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3297:22

```
3296         if index == next_index:
3297             reservoir[randrange(k)] = element
3298             # The new W is the largest in a sample of k U(0, `old_W`)
3299             numbers
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/blacklists/>

blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3299:25

```
3298             # The new W is the largest in a sample of k U(0, `old_W`)
3299             numbers
3300             W *= exp(log(random()) / k)
3301             next_index += floor(log(random()) / log(1 - W)) + 1
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: <https://bandit.readthedocs.io/en/1.8.3/blacklists/>

blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3300:36

```
3299         W *= exp(log(random()) / k)
3300         next_index += floor(log(random()) / log(1 - W)) + 1
3301
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3310:23

```
3309         # Log-transform for numerical stability for weights that are small/large
3310         weight_keys = (log(random()) / weight for weight in weights)
3311
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3320:26

```
3319         smallest_weight_key, _ = reservoir[0]
3320         weights_to_skip = log(random()) / smallest_weight_key
3321
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3328:18

```
3327         t_w = exp(weight * smallest_weight_key)
3328         r_2 = uniform(t_w, 1) # generate U(t_w, 1)
3329         weight_key = log(r_2) / weight
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/more.py:3332:34

```
3331         smallest_weight_key, _ = reservoir[0]
3332         weights_to_skip = log(random()) / smallest_weight_key
3333     else:
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/recipes.py:492:17

```
491     pools = [tuple(pool) for pool in args] * repeat
492     return tuple(choice(pool) for pool in pools)
493
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/more_itertools/recipes.py:542:21

```
541     n = len(pool)
542     indices = sorted(randrange(n) for i in range(r))
543     return tuple(pool[i] for i in indices)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/packaging/_manylinux.py:146:8

```
145     version_string = os.confstr("CS_GNU_LIBC_VERSION")
146     assert version_string is not None
147     _, version = version_string.split()
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/packaging/_musllinux.py:13:0

```
12 import struct
13 import subprocess
14 import sys
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/packaging/_musllinux.py:106:11

```
105     return None
106     proc = subprocess.run([ld], stderr=subprocess.PIPE,
universal_newlines=True)
107     return _parse_musl_version(proc.stderr)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/packaging/_musllinux.py:130:4

```
129 plat = sysconfig.get_platform()
130 assert plat.startswith("linux-"), "not linux"
131
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/packaging/markers.py:152:4

151

152 assert isinstance(marker, (list, tuple, str))

153

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/packaging/markers.py:226:8

225 for marker in markers:

226 assert isinstance(marker, (list, tuple, str))

227

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/packaging/markers.py:242:12

241 else:

242 assert marker in ["and", "or"]

243 if marker == "or":

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/

```
typing_extensions.py:473:4
```

```
472     """This function exists for compatibility with old typing versions."""
```

```
473     assert isinstance(cls, GenericMeta)
```

```
474     if hasattr(cls, '_gorg'):
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be  
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/
```

```
typing_extensions.py:715:12
```

```
714         # includes "Protocol" special treatment. (Comments removed for  
brevity.)
```

```
715         assert extra is None # Protocols should not have extra
```

```
716         if tvars is not None:
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be  
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/
```

```
typing_extensions.py:717:16
```

```
716         if tvars is not None:
```

```
717             assert origin is not None
```

```
718             assert all(isinstance(t, typing.TypeVar) for t in tvars), tvars
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be  
removed when compiling to optimised byte code.
```

```
Severity: Low Confidence: High
```

```
CWE: CWE-703 (https://cwe.mitre.org/data/definitions/703.html)
```

```
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101\_assert\_used.html
```

```
Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/
```

```
typing_extensions.py:718:16
```

```
717             assert origin is not None
```

```
718             assert all(isinstance(t, typing.TypeVar) for t in tvars), tvars
```

```
719         else:
```

```
-----  
>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be
```

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/_vendor/

typing_extensions.py:1150:12

```
1149     def copy_with(self, params):
```

```
1150         assert len(params) == 1
```

```
1151         new_type = params[0]
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/build_meta.py:335:8

```
334
```

```
335     exec(code, locals())
```

```
336
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/build_meta.py:361:16

```
360     if len(candidates) != 0 or len(dirs) != 1:
```

```
361         assert len(candidates) == 1, f"Multiple {suffix} directories found"
```

```
362         return Path(parent, candidates[0])
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/build_meta.py:425:8

```
424     dist_info_candidates = list(Path(metadata_directory).glob("*.dist-info"))
```

```
425     assert len(dist_info_candidates) <= 1
```

```
426     return str(dist_info_candidates[0]) if dist_info_candidates else None
```

>> Issue: [B302:blacklist] Deserialization with the marshal module is possibly

dangerous.

Severity: Medium Confidence: High

CWE: CWE-502 (<https://cwe.mitre.org/data/definitions/502.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b302-marshal

Location: ./venv/lib/python3.11/site-packages/setuptools/command/bdist_egg.py:377:11

```
376     f.read(skip)
377     code = marshal.load(f)
378     f.close()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/build_ext.py:373:8

```
372
373     assert output_dir is None # distutils build_ext doesn't pass this
374     output_dir, filename = os.path.split(output_libname)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/dist_info.py:98:8

```
97     egg_info_dir = self.egg_info.egg_info
98     assert os.path.isdir(egg_info_dir), ".egg-info dir should have been
created"
99
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/command/

```
easy_install.py:38:0
37  import contextlib
38  import subprocess
39  import shlex
```

>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.

Severity: Low Confidence: High

CWE: CWE-330 (<https://cwe.mitre.org/data/definitions/330.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b311-random

Location: ./venv/lib/python3.11/site-packages/setuptools/command/easy_install.py:470:18

```
469      except Exception:
470          pid = random.randint(0, sys.maxsize)
471          return os.path.join(self.install_dir, "test-easy-install-%s" % pid)
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/easy_install.py:1092:8

```
1091      wheel = Wheel(wheel_path)
1092          assert wheel.is_compatible()
1093          destination = os.path.join(self.install_dir, wheel.egg_name())
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/editable_wheel.py:164:12

```
163      else:
164          assert str(self.dist_info_dir).endswith(".dist-info")
165          assert Path(self.dist_info_dir, "METADATA").exists()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/

editable_wheel.py:165:12

```
164         assert str(self.dist_info_dir).endswith(".dist-info")
```

```
165         assert Path(self.dist_info_dir, "METADATA").exists()
```

```
166
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/

editable_wheel.py:731:4

```
730     safe = re.sub(r'\W|^(?=\d)', '_', name)
```

```
731     assert safe.isidentifier()
```

```
732     return safe
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/

install_lib.py:103:8

```
102     ):
```

```
103         assert preserve_mode and preserve_times and not preserve_symlinks
```

```
104         exclude = self.get_exclusions()
```

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/](https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html)

b110_try_except_pass.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/sdist.py:97:8

```
96         del os.link
```

```
97         except Exception:
```

```
98             pass
```


99 try:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/command/
upload_docs.py:176:8

```
175         urllib.parse.urlparse(self.repository)
176         assert not params and not query and not fragments
177         if schema == 'http':
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/
blacklist_calls.html#b310-urllib-urlopen](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen)

Location: ./venv/lib/python3.11/site-packages/setuptools/config/
_validate_pyproject/formats.py:120:9

```
119     context = ssl.create_default_context()
120     with urlopen(url, context=context) as response:
121         headers = Message()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/config/
pyprojecttoml.py:402:12

```
401         optional_dependencies_map = self.dynamic_cfg["optional-
dependencies"]
402         assert isinstance(optional_dependencies_map, dict)
403         return {
```

>> Issue: [B302:blacklist] Deserialization with the marshal module is possibly dangerous.

Severity: Medium Confidence: High

CWE: CWE-502 (<https://cwe.mitre.org/data/definitions/502.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b302-marshal
Location: ./venv/lib/python3.11/site-packages/setuptools/depends.py:112:19
111 f.read(8) # skip magic & date
112 code = marshal.load(f)
113 elif kind == PY_FROZEN:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/setuptools/dist.py:242:8
241 ep = metadata.EntryPoint(value=value, name=None, group=None)
242 assert not ep.extras
243 except (TypeError, ValueError, AttributeError, AssertionError) as e:

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/setuptools/dist.py:254:8
253 # or single-use iterables
254 assert isinstance(value, (list, tuple))
255 # verify that elements of value are strings

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High
CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)
More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html
Location: ./venv/lib/python3.11/site-packages/setuptools/dist.py:256:8
255 # verify that elements of value are strings
256 assert 'x'.join(value) != value
257 except (TypeError, ValueError, AttributeError, AssertionError) as e:

>> Issue: [B110:try_except_pass] Try, Except, Pass detected.
Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/plugins/](https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html)

[b110_try_except_pass.html](https://bandit.readthedocs.io/en/1.8.3/plugins/b110_try_except_pass.html)

Location: `./venv/lib/python3.11/site-packages/setuptools/extension.py:19:4`

```
18     return True
19     except Exception:
20         pass
21     return False
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: `./venv/lib/python3.11/site-packages/setuptools/glob.py:44:8`

```
43     s = next(it) # skip empty string
44     assert not s
45     return it
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: `./venv/lib/python3.11/site-packages/setuptools/glob.py:114:4`

```
113 def glob2(dirname, pattern):
114     assert _isrecursive(pattern)
115     yield pattern[:0]
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: [https://bandit.readthedocs.io/en/1.8.3/blacklists/](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

[blacklist_imports.html#b404-import-subprocess](https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess)

Location: `./venv/lib/python3.11/site-packages/setuptools/installer.py:3:0`

```
2     import os
3     import subprocess
4     import sys
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/installer.py:19:4

```
18     return find_links.split()
19     assert isinstance(find_links, (tuple, list))
20     return find_links
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/installer.py:82:12

```
81     try:
82         subprocess.check_call(cmd)
83     except subprocess.CalledProcessError as e:
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/launch.py:32:4

```
31     code = compile(norm_script, script_name, 'exec')
32     exec(code, namespace)
33
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/msvc.py:22:0

```
21 import itertools
22 import subprocess
23 import distutils.errors
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/msvc.py:91:15

```
90     try:
91         path = subprocess.check_output([
92             join(root, "Microsoft Visual Studio", "Installer", "vswhere.exe"),
93             "-latest",
94             "-prerelease",
95             "-requiresAny",
96             "-requires", "Microsoft.VisualStudio.Component.VC.Tools.x86.x64",
97             "-requires", "Microsoft.VisualStudio.Workload.WDExpress",
98             "-property", "installationPath",
99             "-products", "*",
100         ])xdecode(encoding="mbcs", errors="strict").strip()
101     except (subprocess.CalledProcessError, OSError, UnicodeDecodeError):
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/msvc.py:173:14

```
172     try:
173         out = subprocess.check_output(
174             'cmd /u /c "{}" {} && set'.format(vcvarsall, plat_spec),
175             stderr=subprocess.STDOUT,
176             ).decode('utf-16le', errors='replace')
177     except subprocess.CalledProcessError as exc:
```

>> Issue: [B404:blacklist] Consider possible security implications associated with the subprocess module.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b404-import-subprocess

Location: ./venv/lib/python3.11/site-packages/setuptools/package_index.py:4:0

```
3 import sys
4 import subprocess
5 import os
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/package_index.py:865:8

```
864 self.info(f"Doing {vcs} clone from {url} to {filename}")
865 subprocess.check_call([vcs, 'clone', '--quiet', url, filename])
866
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/package_index.py:873:12

```
872 self.info(f"Checking out {rev}")
873 subprocess.check_call(co_commands[vcs])
874
```

>> Issue: [B607:start_process_with_partial_path] Starting a process with a partial executable path

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b607_start_process_with_partial_path.html

Location: ./venv/lib/python3.11/site-packages/setuptools/package_index.py:929:8

```
928 self.info(f"Doing subversion checkout from {url} to {filename}")
929 subprocess.check_call(['svn', 'checkout', creds, '-q', url, filename])
930 return filename
```

>> Issue: [B603:subprocess_without_shell_equals_true] subprocess call - check for execution of untrusted input.

Severity: Low Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b603_subprocess_without_shell_equals_true.html

Location: ./venv/lib/python3.11/site-packages/setuptools/package_index.py:929:8

```
928     self.info(f"Doing subversion checkout from {url} to {filename}")
929     subprocess.check_call(['svn', 'checkout', creds, '-q', url, filename])
930     return filename
```

>> Issue: [B310:blacklist] Audit url open for permitted schemes. Allowing use of file:/ or custom schemes is often unexpected.

Severity: Medium Confidence: High

CWE: CWE-22 (<https://cwe.mitre.org/data/definitions/22.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_calls.html#b310-urllib-urlopen

Location: ./venv/lib/python3.11/site-packages/setuptools/package_index.py:1154:15

```
1153 if os.path.isfile(filename):
1154     return urllib.request.urlopen(url)
1155 elif path.endswith('/') and os.path.isdir(filename):
```

>> Issue: [B403:blacklist] Consider possible security implications associated with pickle module.

Severity: Low Confidence: High

CWE: CWE-502 (<https://cwe.mitre.org/data/definitions/502.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/blacklists/blacklist_imports.html#b403-import-pickle

Location: ./venv/lib/python3.11/site-packages/setuptools/sandbox.py:9:0

```
8  import contextlib
9  import pickle
10 import textwrap
```

>> Issue: [B102:exec_used] Use of exec detected.

Severity: Medium Confidence: High

CWE: CWE-78 (<https://cwe.mitre.org/data/definitions/78.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b102_exec_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/sandbox.py:46:4

```
45     code = compile(script, filename, 'exec')
46     exec(code, globals, locals)
47
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/setuptools/wheel.py:50:8

```
49     for dirpath, dirnames, filenames in os.walk(src_dir, topdown=True):
50         assert not filenames
51         os.rmdir(dirpath)
```

>> Issue: [B108:hardcoded_tmp_directory] Probable insecure usage of temp file/directory.

Severity: Medium Confidence: Medium

CWE: CWE-377 (<https://cwe.mitre.org/data/definitions/377.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b108_hardcoded_tmp_directory.html

Location: ./venv/lib/python3.11/site-packages/stevedore/tests/test_cache.py:29:50

```
28         """
29         with mock.patch.object(sys, 'executable', '/tmp/fake'):
30             sot = _cache.Cache()
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/stevedore/tests/test_extension.py:78:12

```
77         else:
78             assert False, 'Failed to raise KeyError'
79
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/stevedore/tests/

test_extension.py:175:12

```
174         em.map(mapped, 1, 2, a='A', b='B')
```

```
175         assert False
```

```
176     except RuntimeError:
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/stevedore/tests/test_hook.py:55:12

```
54     else:
```

```
55         assert False, 'Failed to raise KeyError'
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/stevedore/tests/

test_test_manager.py:132:8

```
131     # This will raise KeyError if the names don't match
```

```
132     assert (em[test_extension.name])
```

```
133
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/yaml/parser.py:185:12

```
184         event = StreamEndEvent(token.start_mark, token.end_mark)
```

```
185         assert not self.states
```

```
186         assert not self.marks
```

>> Issue: [B101:assert_used] Use of assert detected. The enclosed code will be

removed when compiling to optimised byte code.

Severity: Low Confidence: High

CWE: CWE-703 (<https://cwe.mitre.org/data/definitions/703.html>)

More Info: https://bandit.readthedocs.io/en/1.8.3/plugins/b101_assert_used.html

Location: ./venv/lib/python3.11/site-packages/yaml/parser.py:186:12

```
185         assert not self.states
186         assert not self.marks
187         self.state = None
```

Code scanned:

Total lines of code: 375549

Total lines skipped (#nosec): 0

Total potential issues skipped due to specifically being disabled (e.g., #nosec BXXX): 11

Run metrics:

Total issues (by severity):

Undefined: 0

Low: 669

Medium: 40

High: 17

Total issues (by confidence):

Undefined: 0

Low: 3

Medium: 16

High: 707

Files skipped (0):